

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P386505

Luminaire Tested: **GPC-SA2A-830-U-SLR**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386505  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GPC-SA2A-830-U-SLR  
Description: GALLEON PEDESTRIAN LUMINAIRE  
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR RIGHT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

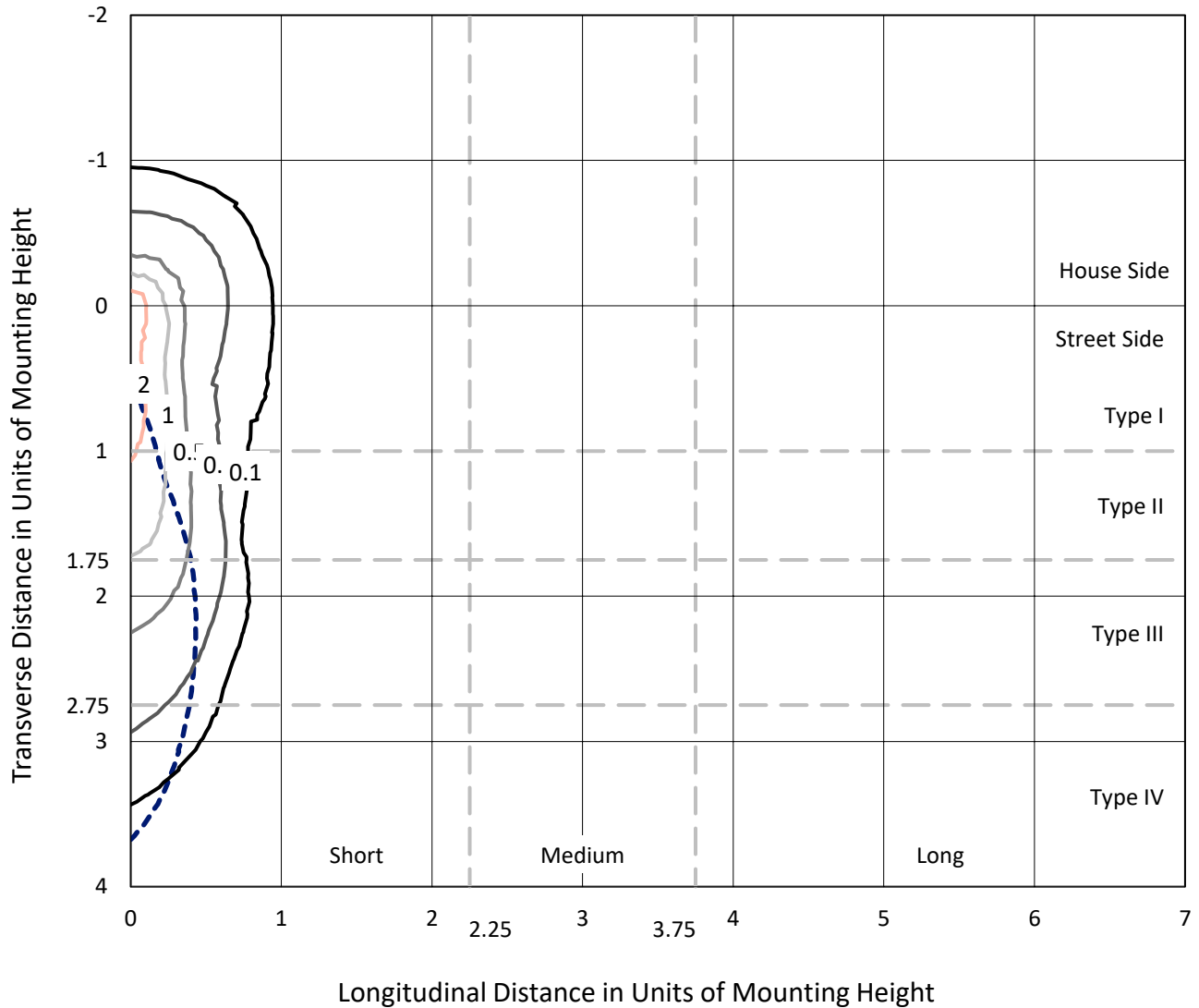
Lumens per Lamp: N/A  
Luminaire Lumens: 6792 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

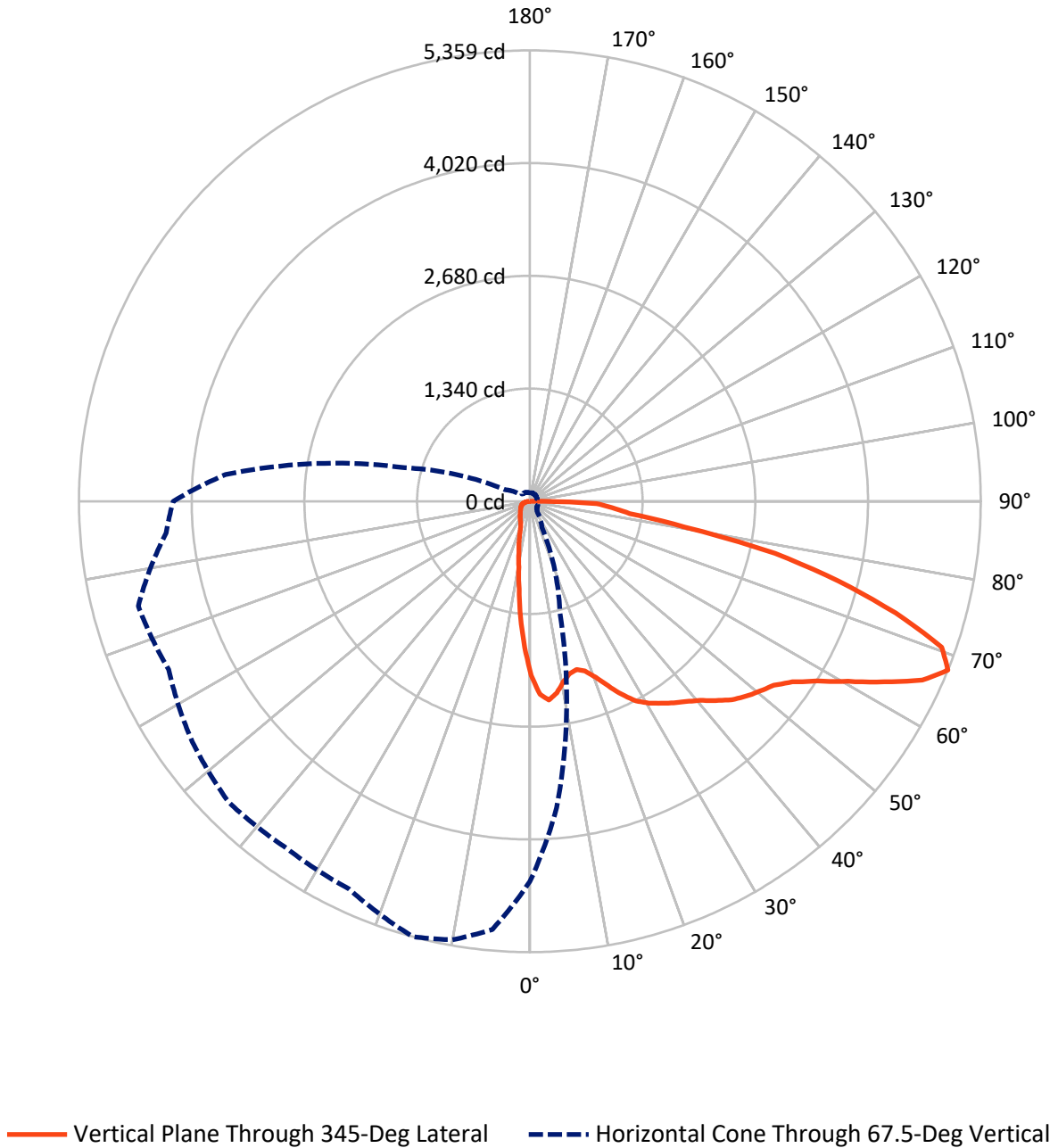
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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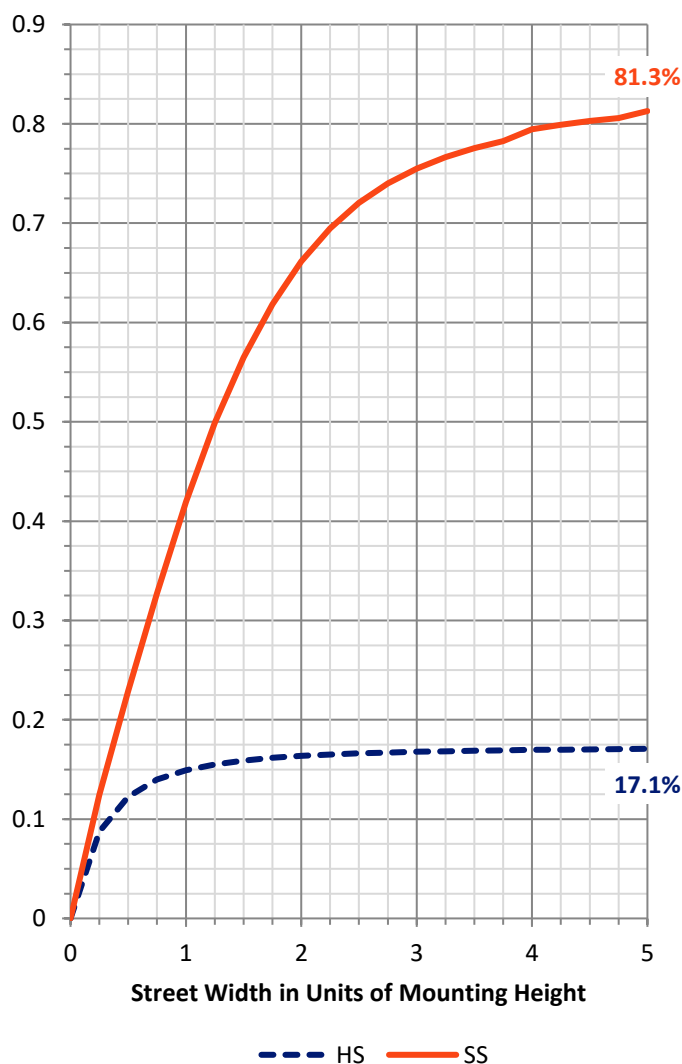
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1174.2	0.0	1174.2
	% Fixture	17.3	0.0	17.3
<b>Street Side</b>	Lumens	5617.8	0.0	5617.8
	% Fixture	82.7	0.0	82.7
<b>Total</b>	Lumens	6792.0	0.0	6792.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.7	2.4
10°-20°	331.8	4.9
20°-30°	471.8	6.9
30°-40°	679.9	10.0
40°-50°	958.2	14.1
50°-60°	1332.0	19.6
60°-70°	1610.8	23.7
70°-80°	990.1	14.6
80°-90°	257.6	3.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6792.0	100.0
0°-180°	6792.0	100.0

**Coefficient of Utilization**



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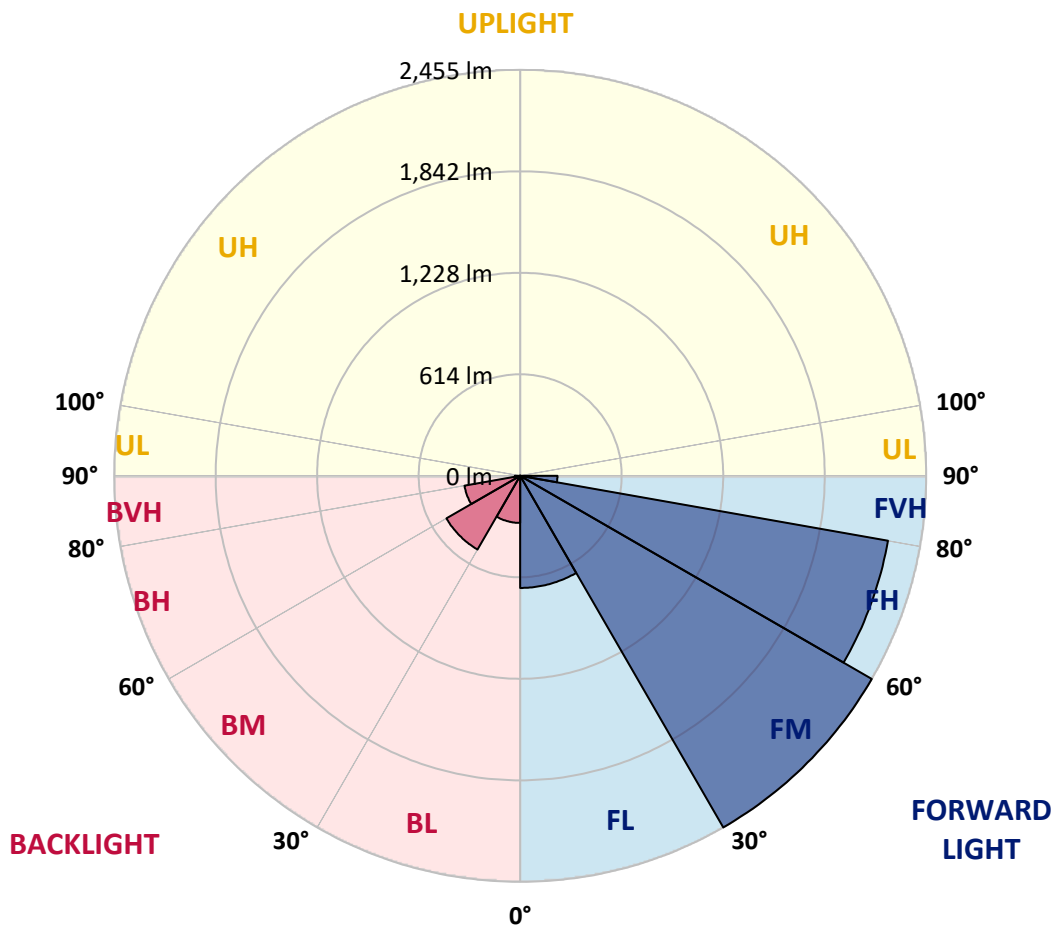
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	678.2	10.0			
FM (30°-60°)	2455.5	36.2			
FH (60°-80°)	2258.8	33.3			G2/5000
FVH (80°-90°)	225.3	3.3			G3/500
BL (0°-30°)	285.1	4.2	B1/500		
BM (30°-60°)	514.6	7.6	B1/1000		
BH (60°-80°)	342.2	5.0	B1/500		G1/500
BVH (80°-90°)	32.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	2216.7	2197.1	2167.5	2137.9	2115.9	2093.7	2068.4	2043.2	2014.4	1985.3	1968.2
5°	2180.0	2125.7	2055.1	1984.5	1937.8	1891.1	1838.1	1785.2	1732.8	1680.4	1652.1
7.5°	2014.9	1933.5	1841.7	1749.9	1682.0	1613.8	1540.5	1466.9	1401.8	1336.3	1295.8
10°	1852.5	1754.8	1649.4	1543.8	1456.9	1370.0	1296.4	1222.5	1173.4	1124.2	1087.0
12.5°	1736.0	1627.7	1511.7	1395.5	1308.6	1221.7	1175.0	1128.3	1087.6	1046.8	1003.9
15°	1689.9	1567.4	1448.7	1329.8	1250.8	1171.7	1119.9	1067.7	1013.2	958.3	905.6
17.5°	1730.6	1587.2	1458.2	1329.2	1225.8	1122.3	1049.8	977.0	905.1	833.1	772.0
20°	1857.7	1674.7	1506.0	1337.1	1199.4	1061.8	964.6	867.1	774.7	682.4	613.2
22.5°	2036.1	1793.9	1573.6	1353.4	1175.6	997.4	875.5	753.3	644.1	535.0	467.1
25°	2252.8	1951.9	1671.1	1390.1	1165.8	941.2	791.3	641.4	526.3	410.9	362.5
27.5°	2481.2	2140.4	1792.2	1443.8	1167.4	891.0	720.4	549.6	445.9	342.2	309.0
30°	2671.5	2355.7	1933.5	1510.9	1173.6	836.4	653.6	470.9	385.3	299.8	278.3
32.5°	2845.6	2505.9	2039.9	1573.6	1180.7	787.5	602.0	416.3	346.5	276.4	258.8
35°	3025.4	2639.2	2114.3	1589.1	1168.5	747.6	566.7	385.9	321.5	256.9	242.0
37.5°	3223.3	2783.4	2186.0	1588.3	1147.9	707.4	539.3	370.9	305.2	239.2	228.4
40°	3444.1	2942.8	2263.7	1584.5	1129.1	673.5	518.9	364.2	296.3	228.1	218.9
42.5°	3660.0	3094.9	2335.9	1576.9	1113.9	650.6	498.8	347.0	288.1	228.9	215.9
45°	3822.1	3227.7	2398.6	1569.3	1102.5	635.7	483.1	330.5	280.5	230.5	214.0
47.5°	3945.1	3361.0	2468.1	1575.0	1101.4	627.8	472.0	316.1	266.1	215.9	209.1
50°	4101.5	3521.2	2569.4	1617.6	1116.4	615.1	458.9	302.5	252.3	202.0	211.3
52.5°	4296.2	3749.9	2726.4	1702.6	1147.6	592.5	438.3	284.0	235.4	186.6	200.9
55°	4582.2	4042.9	2927.1	1811.0	1185.3	559.4	407.1	254.4	213.2	171.6	184.4
57.5°	4838.8	4338.9	3119.6	1900.1	1209.0	517.6	367.7	217.8	188.2	158.6	165.9
60°	4953.1	4491.5	3209.8	1927.8	1194.8	461.9	323.4	184.7	166.2	147.7	146.4
62.5°	4908.6	4394.5	3121.0	1847.4	1125.9	404.3	284.3	164.3	150.4	136.3	133.3
65°	4778.2	4089.9	2872.2	1654.6	1009.4	364.2	259.6	155.1	139.6	124.1	120.8
67.5°	4521.3	3656.2	2519.7	1383.3	861.4	339.4	245.5	151.5	132.8	113.8	110.0
70°	4060.3	3134.3	2113.8	1093.0	708.8	324.2	236.3	148.3	125.5	102.4	98.8
72.5°	3334.9	2512.9	1688.0	862.7	592.5	322.3	235.2	148.0	119.5	91.0	87.7
75°	2387.8	1908.7	1288.5	668.0	485.3	302.5	223.2	143.9	111.3	78.5	75.5
77.5°	1606.8	1321.1	895.6	469.8	360.1	250.4	187.6	124.9	95.3	65.7	62.7
80°	1031.9	914.3	600.1	285.9	233.5	181.1	134.1	87.2	69.5	51.6	49.2
82.5°	757.1	680.5	417.1	153.7	129.8	105.6	82.0	58.4	47.5	36.7	35.6
85°	481.2	530.6	307.1	83.6	68.4	53.2	44.0	34.8	27.4	20.1	20.1
87.5°	93.4	129.3	85.0	40.5	29.6	18.7	16.0	13.0	7.3	1.4	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	1950.8	1932.1	1913.4	1892.2	1870.7	1850.9	1830.8	1808.8	1812.9	1796.0	1779.2
5°	1623.9	1594.0	1563.9	1537.8	1511.7	1489.2	1466.4	1446.0	1463.7	1451.7	1439.8
7.5°	1255.1	1218.2	1181.0	1149.8	1118.5	1094.4	1069.9	1053.1	1070.5	1068.3	1066.1
10°	1049.8	1014.0	977.9	943.4	908.9	879.6	850.0	825.0	820.6	808.1	795.4
12.5°	960.8	911.6	862.2	826.1	789.9	754.9	719.9	690.6	677.3	656.6	635.7
15°	852.9	794.8	736.7	695.7	654.4	620.5	586.3	561.0	552.6	536.6	520.6
17.5°	710.9	647.4	583.8	542.3	500.5	473.3	445.9	429.1	429.1	424.4	419.8
20°	543.9	487.2	430.4	398.6	366.9	352.5	337.8	330.8	332.9	333.2	333.2
22.5°	398.9	364.2	329.4	316.6	303.6	298.4	293.3	290.3	291.4	291.6	291.9
25°	314.2	300.9	287.3	280.8	274.0	270.7	267.5	266.4	268.8	269.1	269.1
27.5°	275.9	267.8	259.3	255.3	250.9	249.6	248.2	246.3	248.7	248.7	248.5
30°	256.6	247.9	239.2	234.1	228.9	229.5	229.7	229.2	230.8	231.9	232.7
32.5°	240.9	232.4	224.0	218.9	213.4	212.6	211.8	211.3	214.8	216.7	218.6
35°	226.7	217.5	208.3	203.4	198.5	196.6	194.7	193.3	196.6	199.0	201.5
37.5°	217.2	207.7	198.0	193.3	188.5	186.0	183.6	181.9	183.3	184.4	185.5
40°	209.6	199.9	189.8	184.4	179.0	176.5	174.1	172.7	173.5	173.8	174.1
42.5°	202.6	193.1	183.6	177.6	171.3	168.4	165.4	163.7	164.3	164.8	165.1
45°	197.4	187.9	178.1	171.1	163.7	160.5	157.2	155.3	155.6	155.6	155.6
47.5°	202.3	188.5	174.3	166.2	157.8	154.0	150.2	148.3	147.7	147.2	146.6
50°	220.2	196.6	172.7	162.4	151.8	147.7	143.4	141.2	139.8	139.3	138.8
52.5°	215.1	194.7	174.1	160.8	147.2	142.3	137.4	133.9	132.5	131.7	130.9
55°	196.9	184.1	171.1	155.1	139.0	134.7	130.1	127.6	125.2	124.6	124.1
57.5°	173.0	167.8	162.7	146.4	130.1	126.0	121.7	120.0	117.9	117.9	117.6
60°	144.7	152.3	159.9	141.2	122.2	117.6	113.0	111.6	110.8	110.5	110.3
62.5°	130.1	142.6	154.8	135.0	114.9	110.0	105.1	103.5	103.2	103.5	103.5
65°	117.6	121.4	125.2	116.0	106.7	101.8	96.7	95.0	95.6	96.4	97.2
67.5°	106.2	105.4	104.5	101.3	97.8	93.7	89.3	87.7	88.0	89.1	90.2
70°	95.3	94.2	92.9	90.4	88.0	84.5	80.9	79.8	79.6	80.9	82.0
72.5°	84.5	83.1	81.5	79.6	77.4	74.4	71.4	70.6	70.9	71.7	72.5
75°	72.5	71.4	70.1	68.4	66.5	63.8	61.1	60.6	61.1	61.9	62.7
77.5°	59.5	59.2	58.7	57.3	55.9	53.0	49.7	49.4	50.2	51.1	51.6
80°	46.4	46.7	47.0	45.9	44.8	41.5	38.0	37.7	38.6	39.4	40.2
82.5°	34.2	35.0	35.6	34.2	32.9	29.1	25.3	24.7	27.4	28.2	29.1
85°	19.8	20.9	22.0	20.9	19.8	16.0	12.2	11.9	14.4	15.8	17.1
87.5°	1.6	2.2	2.7	2.4	2.2	1.1	0.0	0.0	0.3	1.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505  
 CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505  
 CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	1768.6	1758.0	1754.8	1751.5	1739.6	1727.3	1739.8	1752.1	1757.2	1762.4	1749.1
5°	1438.1	1436.2	1436.2	1436.0	1425.1	1414.0	1422.4	1430.5	1412.3	1394.2	1392.2
7.5°	1077.8	1089.5	1099.0	1108.2	1104.7	1101.1	1109.0	1116.9	1093.8	1070.5	1059.1
10°	798.1	800.5	810.9	821.2	823.6	825.8	835.6	845.1	827.1	809.2	801.4
12.5°	622.7	609.6	611.0	612.1	617.0	621.6	631.9	642.0	634.6	627.0	627.8
15°	504.3	487.7	480.9	473.9	479.3	484.7	492.1	499.1	499.4	499.4	506.4
17.5°	411.7	403.3	396.5	389.4	396.7	403.8	404.6	405.4	405.7	406.0	405.4
20°	337.3	341.3	339.2	337.0	339.7	342.2	344.3	346.2	343.8	341.1	334.3
22.5°	295.7	299.3	302.0	304.4	309.0	313.4	311.2	308.8	303.9	298.7	293.5
25°	271.6	274.0	276.7	279.4	283.2	286.8	283.0	279.2	275.6	272.1	268.6
27.5°	251.2	253.6	256.1	258.2	261.8	265.0	261.5	258.0	255.0	252.0	249.3
30°	234.6	236.3	238.2	240.1	243.3	246.3	243.3	240.1	237.9	235.4	233.5
32.5°	220.5	222.1	222.9	223.8	226.7	229.7	227.6	225.4	223.5	221.6	220.2
35°	205.0	208.3	208.8	209.4	212.4	215.3	214.0	212.4	210.2	208.0	205.6
37.5°	189.3	193.1	195.2	197.1	200.1	203.1	201.8	200.4	197.4	194.4	190.1
40°	176.0	177.6	181.7	185.5	190.4	195.0	192.3	189.3	184.7	180.0	177.9
42.5°	164.8	164.6	168.4	172.2	179.5	186.6	181.7	176.8	172.4	168.1	167.5
45°	155.1	154.2	156.1	158.0	165.9	173.5	168.6	163.5	161.0	158.6	158.6
47.5°	146.4	145.8	147.2	148.3	153.2	157.8	155.3	152.9	151.5	150.2	150.4
50°	138.5	137.9	139.3	140.4	142.3	143.9	144.5	144.7	143.9	143.1	143.7
52.5°	131.2	131.2	131.7	132.0	134.4	136.9	136.9	136.6	136.6	136.6	137.1
55°	124.9	125.5	125.5	125.5	129.3	132.8	131.7	130.6	130.9	130.9	131.4
57.5°	118.7	119.5	120.0	120.6	124.4	128.2	127.1	126.0	126.0	126.0	126.3
60°	111.6	112.7	113.8	114.9	118.7	122.5	121.4	120.0	120.3	120.6	120.8
62.5°	104.8	105.9	107.0	108.1	111.9	115.7	114.6	113.2	114.1	114.6	114.6
65°	98.3	99.1	100.2	101.3	104.8	108.3	107.3	106.2	107.3	108.1	108.6
67.5°	91.0	91.5	92.6	93.7	97.2	100.7	99.7	98.3	99.7	100.7	101.8
70°	82.6	83.1	84.5	85.5	89.1	92.6	91.2	89.9	91.2	92.6	93.7
72.5°	73.3	73.9	75.2	76.3	80.4	84.5	82.8	81.2	82.8	84.5	85.0
75°	63.3	63.8	65.4	66.8	70.9	74.9	73.6	72.0	73.3	74.7	74.9
77.5°	52.4	53.2	55.4	57.6	60.8	64.1	63.3	62.5	63.3	64.1	64.1
80°	41.0	41.8	44.5	47.0	48.9	50.8	51.1	51.3	51.6	51.9	51.6
82.5°	30.4	31.5	33.9	36.4	36.4	36.4	38.6	40.5	40.5	40.2	39.9
85°	18.7	20.1	22.3	24.4	23.1	21.7	25.3	28.5	28.5	28.2	27.7
87.5°	3.8	5.2	7.3	9.2	7.9	6.5	10.0	13.6	13.8	13.8	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505  
 CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505  
 CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	1735.5	1756.7	1777.6	1783.0	1791.2	1794.7	1797.9	1824.6	1850.9	1881.9	1912.8
5°	1390.1	1405.8	1421.6	1424.0	1432.4	1436.8	1441.1	1473.4	1505.5	1548.7	1591.8
7.5°	1047.6	1051.5	1055.3	1054.7	1061.8	1071.3	1080.5	1115.0	1149.2	1195.6	1241.8
10°	793.5	802.2	810.6	818.5	833.9	851.9	869.5	904.8	940.1	986.0	1031.6
12.5°	628.6	638.7	648.5	657.2	675.1	699.0	722.6	765.0	807.3	862.2	916.8
15°	513.2	512.4	511.6	517.6	533.3	559.4	585.2	630.0	674.8	735.1	795.1
17.5°	404.9	400.8	396.7	401.4	416.0	437.5	458.7	496.7	534.4	592.8	651.2
20°	327.5	324.8	322.1	326.4	335.6	344.6	353.6	381.0	408.1	455.7	502.9
22.5°	288.1	287.8	287.3	289.7	294.1	298.7	303.1	316.4	329.4	360.1	390.5
25°	265.0	264.8	264.5	265.6	269.1	272.6	276.2	284.9	293.5	308.2	322.9
27.5°	246.6	246.0	245.5	245.8	246.6	252.0	257.2	261.2	265.0	275.1	284.9
30°	231.6	231.4	231.1	231.1	230.3	232.2	234.1	240.3	246.3	256.6	266.9
32.5°	218.9	217.5	216.2	213.2	211.3	214.0	216.7	223.2	229.7	239.2	248.7
35°	202.8	199.3	195.5	193.9	194.2	196.9	199.6	206.1	212.4	222.7	232.7
37.5°	185.5	184.4	183.0	182.8	183.6	186.3	189.0	194.7	200.1	210.5	220.5
40°	175.7	175.2	174.6	174.1	174.6	177.3	180.0	185.5	190.6	200.7	210.5
42.5°	167.0	166.7	166.5	166.5	166.7	169.7	172.7	178.1	183.3	192.3	201.2
45°	158.6	158.9	158.9	159.4	160.2	163.2	165.9	171.9	177.9	186.6	195.2
47.5°	150.7	151.5	152.1	153.4	154.2	157.5	160.5	167.0	173.5	184.4	195.0
50°	143.9	144.7	145.3	146.4	148.5	152.3	156.1	164.0	171.6	189.8	207.7
52.5°	137.7	138.5	139.3	140.4	143.1	147.5	151.8	161.6	171.1	192.3	213.4
55°	132.0	132.8	133.3	135.0	137.7	141.5	145.0	157.0	168.9	184.4	199.9
57.5°	126.5	127.4	127.9	129.0	130.3	134.4	138.2	151.0	163.7	174.6	185.2
60°	120.8	121.4	121.7	121.7	122.7	127.4	132.0	148.3	164.3	162.4	160.2
62.5°	114.6	115.1	115.4	114.6	116.0	120.8	125.7	146.9	168.1	155.1	142.0
65°	108.9	108.6	108.3	107.5	109.2	114.1	118.7	129.3	139.8	134.7	129.5
67.5°	102.6	101.8	101.0	99.9	101.6	105.9	110.0	113.5	117.0	117.6	118.1
70°	94.8	93.7	92.6	92.3	93.1	96.7	100.2	102.6	104.8	105.9	106.7
72.5°	85.5	84.7	83.9	83.4	83.6	86.6	89.3	91.5	93.7	94.5	95.0
75°	75.2	75.2	74.9	73.3	73.3	75.8	77.9	79.8	81.7	82.8	83.9
77.5°	64.1	64.4	64.4	62.2	61.9	64.4	66.5	68.2	69.5	70.6	71.4
80°	51.3	50.8	50.2	48.9	48.3	51.3	54.0	55.4	56.5	56.8	56.8
82.5°	39.4	38.3	36.9	33.9	34.2	37.5	40.5	41.5	42.6	42.6	42.6
85°	26.9	24.7	22.3	19.8	20.1	23.6	26.9	28.0	29.1	29.6	29.9
87.5°	12.8	10.6	8.1	6.2	6.2	9.2	11.9	12.5	13.0	14.1	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505  
 CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505  
 CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	1936.4	1959.8	1984.0	2008.1	2035.8	2063.5	2095.8	2127.9	2155.3	2182.7	2205.5
5°	1629.0	1666.2	1710.0	1753.7	1809.4	1865.0	1933.2	2001.1	2061.6	2122.2	2192.5
7.5°	1290.4	1338.8	1395.8	1452.8	1524.8	1596.7	1685.0	1773.2	1858.8	1944.0	2052.1
10°	1082.4	1133.2	1189.4	1245.3	1318.7	1391.7	1485.1	1578.3	1674.4	1770.3	1892.4
12.5°	973.2	1029.5	1078.9	1128.3	1187.8	1247.0	1337.4	1427.8	1540.8	1653.5	1771.1
15°	856.7	918.1	977.3	1036.5	1101.4	1166.0	1254.0	1342.0	1465.6	1589.1	1724.4
17.5°	715.8	780.4	852.7	924.6	1009.4	1093.8	1206.5	1319.2	1465.6	1611.7	1771.1
20°	568.9	634.9	721.2	807.6	913.0	1018.1	1164.1	1310.2	1507.4	1704.3	1907.7
22.5°	448.9	507.0	601.2	695.2	816.8	938.5	1125.9	1313.0	1570.7	1828.1	2102.6
25°	363.9	404.9	497.5	589.8	730.2	870.6	1102.5	1334.1	1662.7	1991.0	2331.5
27.5°	311.7	338.6	425.0	511.1	664.5	817.6	1093.0	1368.1	1779.5	2190.9	2580.6
30°	285.7	304.4	377.5	450.2	606.1	762.0	1081.6	1401.2	1891.9	2382.3	2775.3
32.5°	263.9	278.9	341.3	403.5	555.6	707.7	1059.6	1411.3	1970.4	2529.5	2940.1
35°	245.5	258.0	312.3	366.6	515.9	665.3	1022.7	1380.0	2019.5	2659.0	3111.7
37.5°	230.5	240.3	290.6	340.8	481.7	622.7	980.6	1338.5	2063.3	2788.0	3304.8
40°	218.9	227.3	274.3	321.2	449.1	577.0	944.5	1311.6	2123.5	2935.5	3508.7
42.5°	212.4	223.2	260.1	296.8	418.2	539.6	915.4	1291.2	2179.5	3067.5	3687.1
45°	210.7	226.2	252.8	279.4	395.1	510.8	889.6	1268.2	2215.6	3163.0	3821.6
47.5°	208.0	220.8	247.1	273.5	383.7	493.7	875.8	1257.6	2251.7	3245.6	3933.2
50°	209.6	211.3	242.5	273.5	382.1	490.7	891.5	1292.3	2329.9	3367.3	4060.8
52.5°	206.7	199.6	233.8	268.0	381.8	495.6	936.9	1378.1	2475.2	3572.0	4199.0
55°	190.9	181.7	217.5	253.4	376.1	498.6	990.9	1482.9	2670.2	3857.1	4447.5
57.5°	177.1	168.6	199.0	229.2	358.7	488.3	1046.6	1604.6	2876.3	4147.7	4727.5
60°	158.6	156.7	178.4	200.1	331.8	463.3	1092.5	1721.4	3014.8	4307.9	4835.3
62.5°	143.4	144.5	160.5	176.5	298.2	419.5	1107.7	1795.5	3011.0	4226.4	4726.6
65°	131.7	133.6	149.4	165.1	269.4	373.7	1057.7	1741.5	2858.6	3975.5	4511.8
67.5°	120.3	122.5	141.2	159.7	243.9	327.8	932.8	1537.5	2584.6	3631.5	4238.7
70°	109.4	112.2	132.5	152.9	225.4	297.6	771.8	1245.9	2241.7	3237.2	3922.3
72.5°	97.8	100.5	122.2	143.9	213.7	283.2	629.2	974.9	1819.1	2663.1	3355.0
75°	85.8	87.7	111.3	134.7	197.7	260.7	493.7	726.4	1392.2	2058.1	2534.1
77.5°	73.9	76.3	96.1	115.7	167.8	219.7	372.0	524.4	1021.6	1518.5	1762.4
80°	58.9	61.1	75.2	89.1	129.5	169.7	255.8	341.9	703.0	1064.2	1201.6
82.5°	45.1	47.5	57.0	66.3	92.3	118.4	155.1	191.7	467.1	742.2	753.6
85°	31.0	31.8	38.6	45.1	57.0	69.0	88.8	108.6	309.0	509.4	424.4
87.5°	15.5	15.5	20.1	24.7	30.7	36.7	47.0	57.0	98.8	140.7	80.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505  
 CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





REPORT NUMBER: P386505

CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	2234.6	2254.4	2274.5	2289.7	2305.2	2327.5	2349.7	2353.8	2358.2	2349.5	2340.8
5°	2263.4	2323.4	2383.7	2439.4	2495.0	2528.4	2561.8	2568.6	2575.4	2554.5	2533.3
7.5°	2156.7	2261.2	2365.8	2461.6	2557.5	2615.6	2674.0	2687.0	2700.3	2666.1	2631.9
10°	2014.1	2142.5	2271.0	2397.3	2523.5	2608.0	2692.4	2709.3	2726.1	2683.5	2640.8
12.5°	1903.9	2041.0	2178.1	2311.2	2444.5	2532.0	2619.4	2640.3	2661.2	2630.3	2599.0
15°	1869.9	1998.9	2127.9	2243.8	2360.1	2431.5	2503.2	2511.6	2520.3	2515.4	2510.5
17.5°	1931.6	2048.0	2164.8	2227.8	2291.1	2319.6	2348.4	2357.6	2367.1	2379.3	2391.8
20°	2080.9	2162.9	2245.2	2242.5	2239.5	2225.6	2211.5	2209.1	2206.6	2241.7	2277.0
22.5°	2303.9	2336.4	2369.3	2293.0	2216.7	2170.2	2123.5	2114.3	2104.8	2142.0	2179.5
25°	2545.8	2539.8	2533.6	2388.3	2242.8	2154.2	2065.7	2055.4	2045.1	2076.8	2108.9
27.5°	2785.3	2746.2	2707.1	2509.7	2312.3	2183.8	2055.4	2045.1	2034.7	2063.0	2091.2
30°	2961.0	2898.3	2835.6	2612.1	2388.6	2236.0	2083.4	2066.5	2049.4	2084.2	2118.9
32.5°	3098.1	3014.0	2929.8	2695.2	2460.5	2295.4	2130.3	2104.0	2077.6	2124.1	2170.5
35°	3235.0	3116.6	2997.9	2769.3	2540.4	2365.8	2190.9	2158.6	2126.3	2190.1	2253.9
37.5°	3407.2	3237.2	3066.9	2852.7	2638.4	2471.1	2303.6	2270.5	2237.3	2318.5	2400.0
40°	3594.0	3367.3	3140.5	2943.9	2747.3	2617.0	2486.3	2454.8	2423.1	2521.9	2620.8
42.5°	3749.3	3488.4	3227.4	3053.9	2880.1	2788.3	2696.2	2696.0	2695.4	2795.6	2895.8
45°	3875.6	3589.4	3302.9	3161.1	3019.1	2971.3	2923.5	2961.8	3000.1	3090.5	3181.2
47.5°	3969.8	3674.1	3378.1	3283.9	3189.7	3196.7	3203.8	3281.7	3359.6	3417.8	3476.1
50°	4031.2	3751.0	3470.4	3441.4	3412.3	3475.6	3539.1	3628.5	3718.1	3757.7	3797.4
52.5°	4120.5	3855.2	3589.7	3622.2	3654.8	3784.1	3913.3	4003.8	4094.2	4108.9	4123.8
55°	4327.2	4046.9	3766.4	3828.9	3891.6	4081.2	4271.0	4341.6	4412.2	4417.6	4423.0
57.5°	4620.7	4315.5	4010.3	4077.6	4145.0	4363.8	4583.0	4659.0	4735.3	4724.7	4713.9
60°	4840.4	4570.5	4300.3	4368.2	4436.1	4649.5	4863.0	4950.4	5038.1	5014.8	4991.4
62.5°	4854.0	4709.8	4565.3	4626.7	4688.4	4897.4	5106.5	5196.4	5286.3	5245.6	5204.8
65°	4638.1	4702.7	4767.4	4787.7	4808.1	5003.1	5198.3	5267.0	5336.0	5315.4	5294.7
67.5°	4340.8	4578.9	4817.3	4776.3	4735.3	4826.8	4918.4	4989.2	5060.1	5048.4	5036.5
70°	4044.0	4361.9	4679.9	4478.4	4276.7	4238.9	4201.2	4277.5	4354.1	4306.8	4259.3
72.5°	3538.6	3877.5	4216.7	3845.5	3474.2	3345.3	3216.3	3313.2	3410.2	3334.9	3259.4
75°	2777.7	3152.2	3526.9	3084.0	2641.1	2469.0	2296.8	2380.2	2463.5	2411.9	2360.1
77.5°	2067.9	2436.9	2806.0	2355.7	1905.2	1777.3	1649.1	1673.8	1698.8	1690.1	1681.2
80°	1402.6	1659.7	1917.2	1617.4	1317.6	1327.3	1337.4	1325.7	1313.8	1331.2	1348.5
82.5°	895.0	1093.5	1292.3	1133.2	974.1	1065.3	1156.5	1111.7	1066.7	1083.2	1100.1
85°	510.8	705.0	899.4	838.3	776.9	830.1	883.6	814.1	744.6	775.0	805.7
87.5°	134.7	389.9	645.5	586.0	526.5	457.6	388.6	296.5	204.5	298.7	392.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505  
 CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505

CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2	2069.2
2.5°	2336.2	2331.5	2315.0	2298.1	2273.2	2252.5	2216.7
5°	2504.0	2474.7	2424.1	2373.4	2316.9	2252.0	2180.0
7.5°	2563.5	2494.8	2397.8	2300.6	2213.2	2110.5	2014.9
10°	2538.2	2435.3	2309.3	2183.0	2076.8	1958.7	1852.5
12.5°	2489.9	2380.4	2241.7	2102.6	1981.8	1855.0	1736.0
15°	2423.3	2335.9	2205.8	2075.7	1954.1	1830.8	1689.9
17.5°	2350.6	2309.0	2215.1	2120.8	2015.5	1896.0	1730.6
20°	2291.9	2307.1	2269.6	2232.2	2147.7	2043.4	1857.7
22.5°	2252.3	2325.3	2354.1	2383.1	2332.4	2250.9	2036.1
25°	2230.0	2351.1	2447.5	2544.2	2521.6	2458.9	2252.8
27.5°	2239.8	2388.3	2537.9	2687.8	2708.7	2691.4	2481.2
30°	2269.1	2419.5	2601.7	2784.2	2867.6	2890.9	2671.5
32.5°	2318.0	2465.4	2663.9	2862.7	2988.7	3063.1	2845.6
35°	2391.8	2529.8	2736.7	2943.6	3106.6	3242.3	3025.4
37.5°	2518.6	2637.3	2828.2	3019.4	3230.7	3434.6	3223.3
40°	2704.4	2788.3	2949.6	3111.2	3377.0	3652.4	3444.1
42.5°	2938.7	2981.9	3109.8	3237.7	3529.9	3850.1	3660.0
45°	3192.6	3204.0	3284.4	3365.1	3651.0	3984.8	3822.1
47.5°	3437.0	3397.9	3430.0	3462.0	3743.9	4080.9	3945.1
50°	3688.5	3579.6	3562.8	3545.9	3836.8	4194.1	4101.5
52.5°	3944.3	3764.8	3698.3	3631.5	3947.6	4344.3	4296.2
55°	4194.7	3966.3	3876.7	3787.1	4117.0	4527.6	4582.2
57.5°	4455.1	4196.3	4113.2	4030.1	4366.0	4759.8	4838.8
60°	4735.3	4479.0	4412.5	4345.7	4675.6	5010.7	4953.1
62.5°	5001.2	4797.5	4762.5	4727.2	4988.7	5203.5	4908.6
65°	5178.8	5062.6	5095.1	5128.0	5225.5	5251.6	4778.2
67.5°	5060.1	5083.7	5221.4	5359.4	5292.3	5108.7	4521.3
70°	4400.8	4542.5	4868.7	5195.1	5046.3	4726.1	4060.3
72.5°	3418.6	3578.0	4062.2	4546.6	4409.5	4017.3	3334.9
75°	2539.8	2719.9	3254.3	3788.7	3598.3	3005.0	2387.8
77.5°	1801.8	1922.3	2449.9	2977.8	2667.5	2000.3	1606.8
80°	1311.6	1274.7	1568.8	1862.8	1811.3	1323.0	1031.9
82.5°	1009.9	919.7	1058.2	1196.7	1189.1	918.1	757.1
85°	769.6	733.5	855.9	978.4	873.6	621.9	481.2
87.5°	448.6	504.5	648.7	793.2	595.2	188.7	93.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P386505  
 CATALOG NUMBER: GPC-SA2A-830-U-SLR

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

MCGRAW EDISON

Report Number: SP1-2408-195-9

Test Date: 08/07/2024

Luminaire Tested: GALN-SB1A-830-U-5WQ

Data in this report applies to families of products including GALN-SB1A-830-U-5WQ.

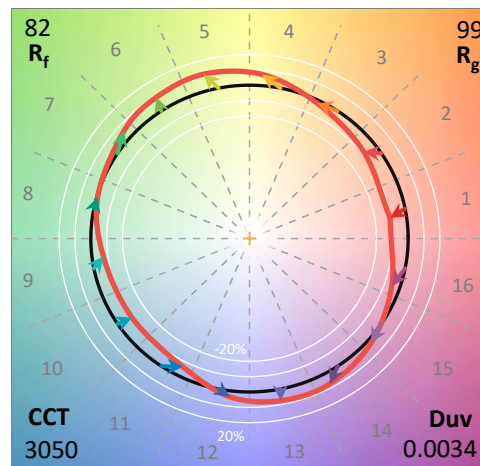
**Test Information**

Test Method: LM-79-2019  
 Report Number: SP1-2408-195-9  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1 - 76IN SPHERE  
 Measurement Geometry: 4π  
 Issue Date: 08/07/2024  
 Manufacturer: COOPER LIGHTING SOLUTIONS  
 Product Line: MCGRAW EDISON  
 Catalog Number: **GALN-SB1A-830-U-5WQ**  
 Description: GALLEON AREA AND ROADWAY LUMINAIRE. (1) 80 CRI, 3000K, 350MA HIGH DENSITY LIGHTSQUARE WITH 26 LEDS AND TYPE V WIDE OPTICS

**Spectral Parameters**

CCT (K): 3050  
 CIE u': 0.2476  
 CIE v': 0.5251  
 Duv: 0.0034  
 CIE x: 0.4383  
 CIE y: 0.4131  
 CIE z: 0.1487  
 Peak Wavelength (nm): 603  
 Dominant Wavelength (nm): 581  
 Purity: 55.55201  
 Rf: 81.5  
 Rg: 99.2

CRI (Ra):	81.0		
R1:	79.6	R9:	7.1
R2:	85.6	R10:	67.0
R3:	92.0	R11:	82.7
R4:	82.6	R12:	63.2
R5:	78.9	R13:	80.3
R6:	81.7	R14:	95.0
R7:	85.2	R15:	71.7
R8:	62.0		



**Test Conditions**

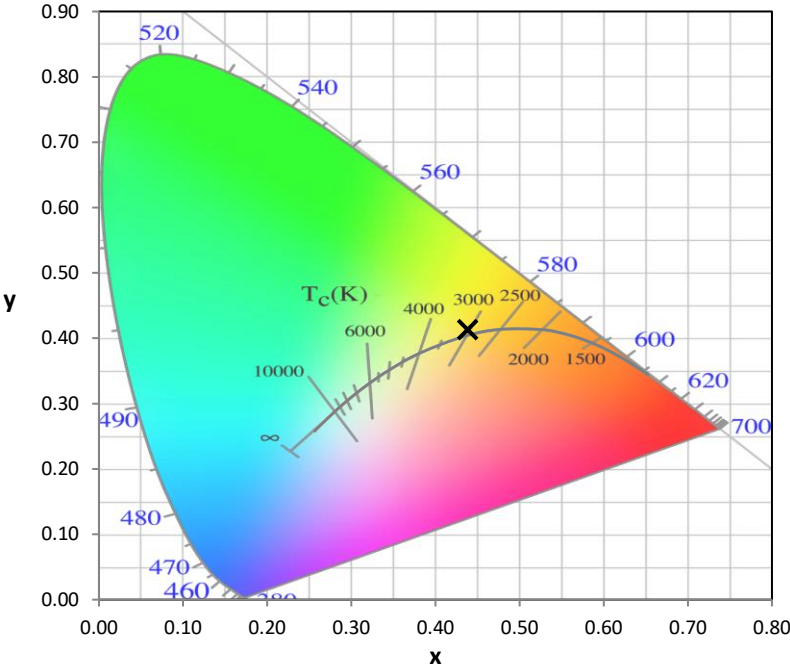
Stabilization Time: 20M  
 Operation Time: 1H 20M  
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

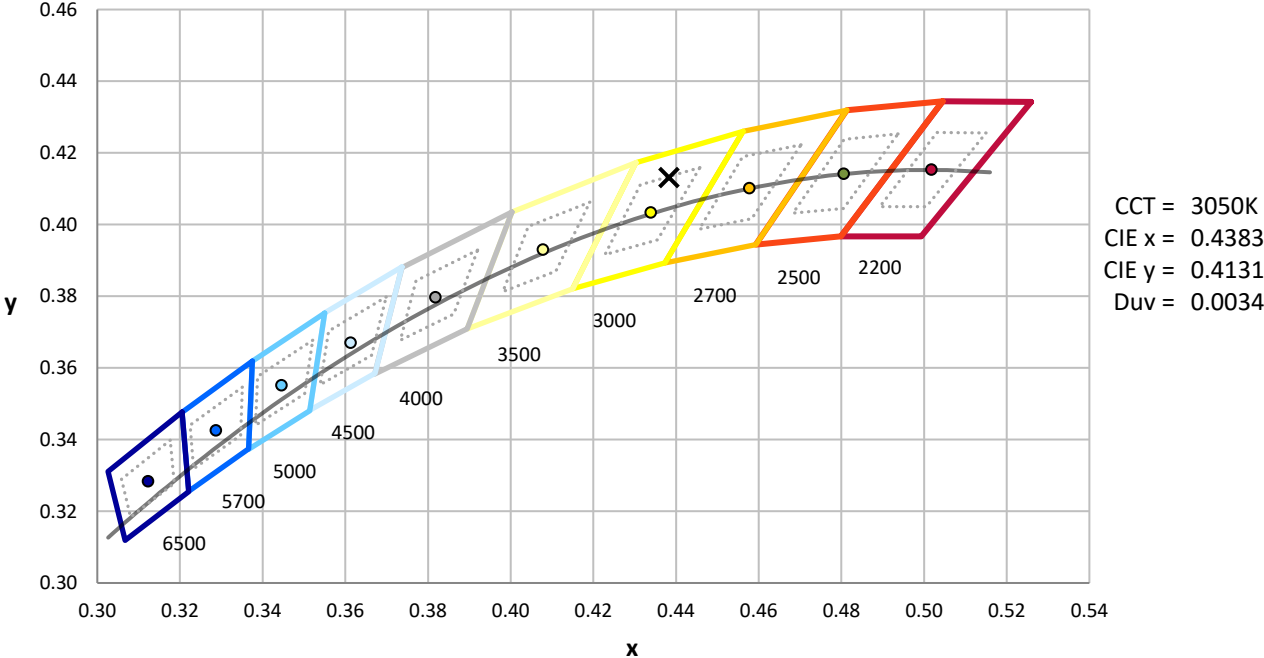
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2408-195-9

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



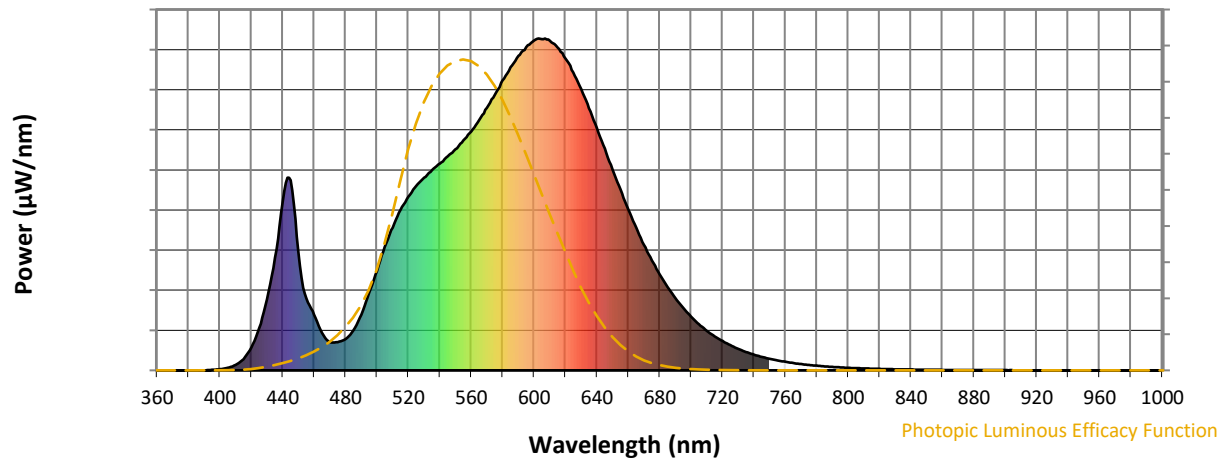
CCT = 3050K  
 CIE x = 0.4383  
 CIE y = 0.4131  
 Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle



REPORT NUMBER: SP1-2408-195-9

**Photopic Flux vs. Wavelength**

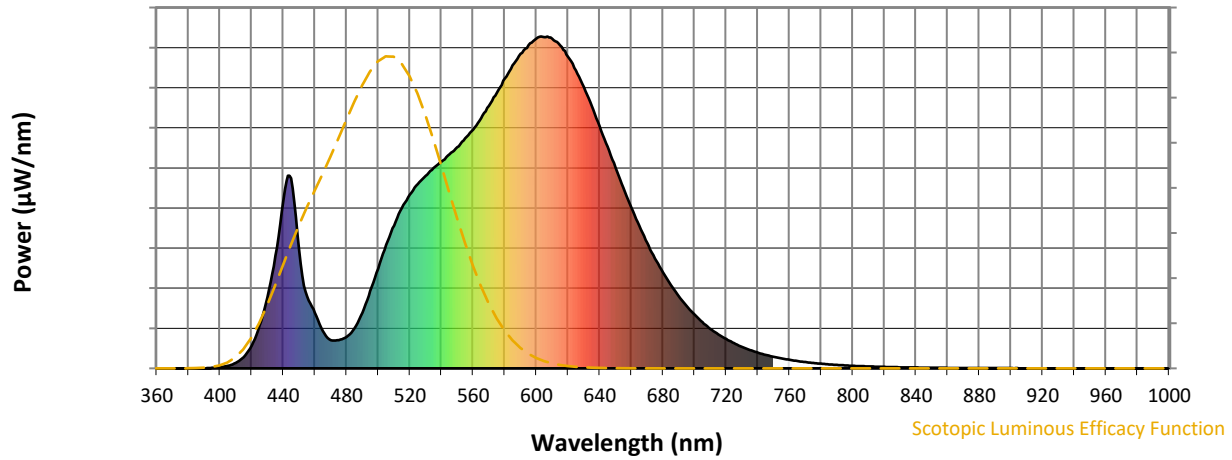


**Photopic Lumens: NR**

$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)	$\lambda$ (nm)	Power W <sup>^</sup> /nm	Lumens ( $\phi$ /nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

**Scotopic Flux vs. Wavelength**



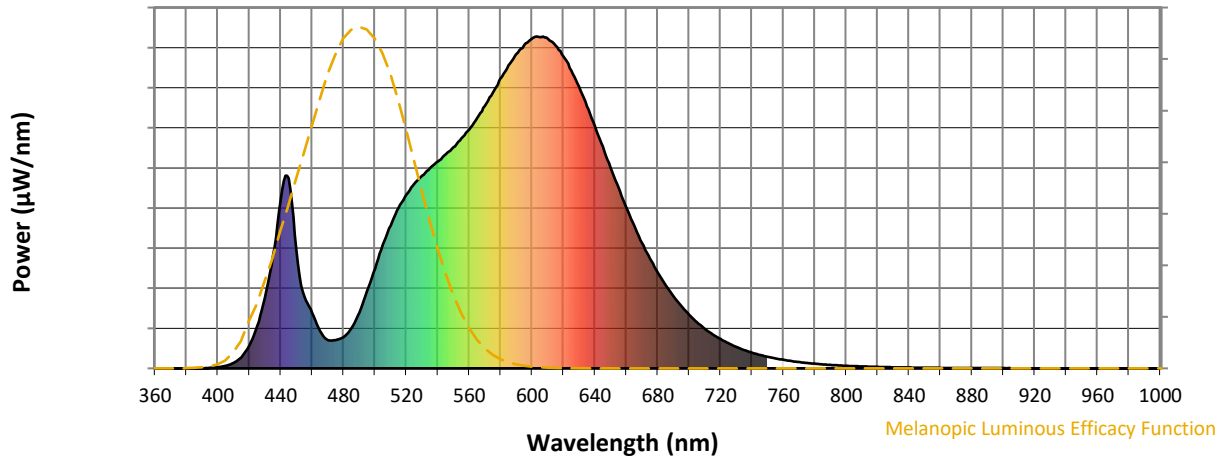
**Scotopic Lumens: NR**

**S/P: 1.27**

λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

REPORT NUMBER: SP1-2408-195-9

**Melanopic Flux vs. Wavelength**



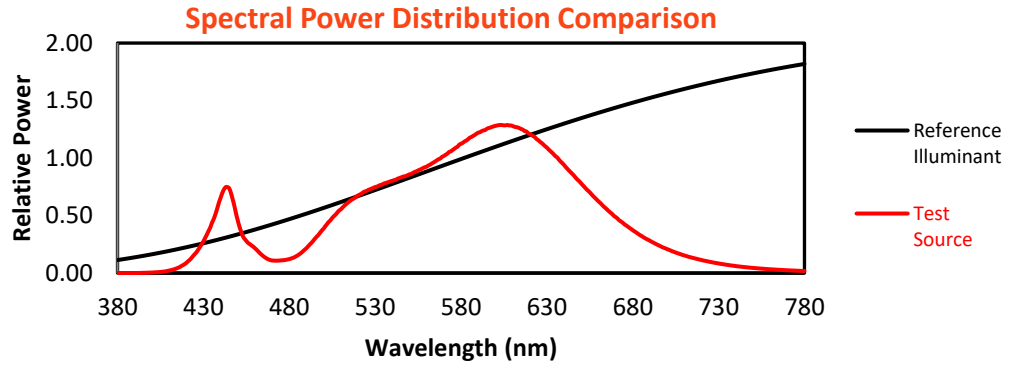
**Melanopic Lumens: NR**

**M/P: 2.32**

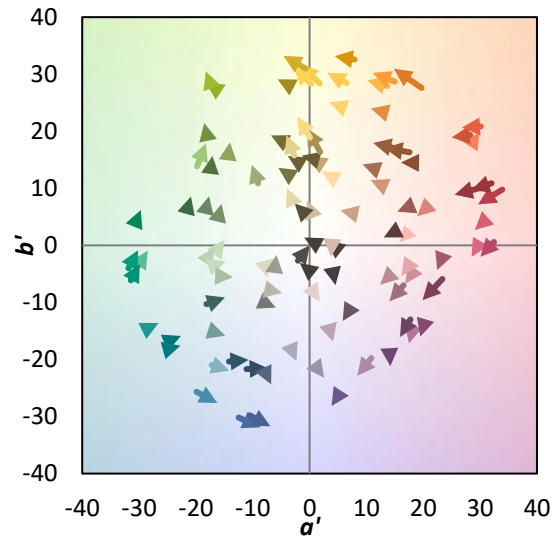
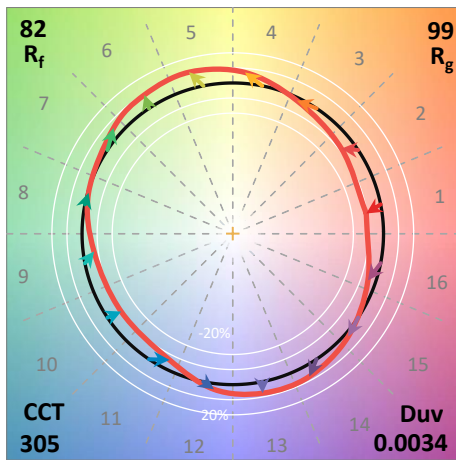
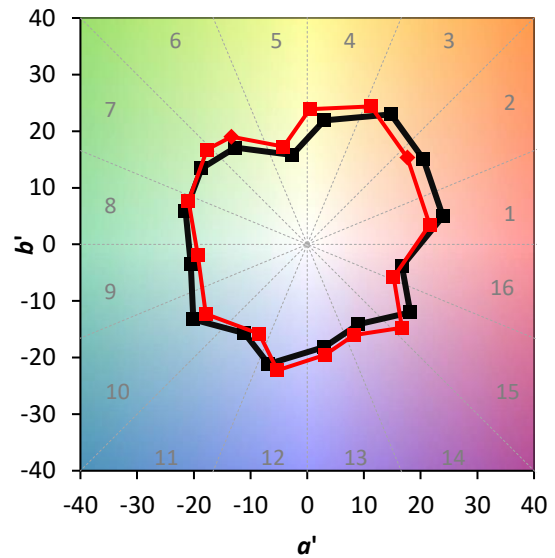
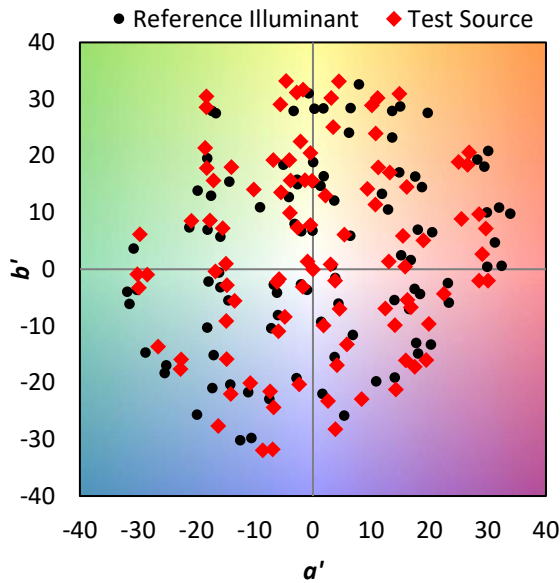
λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)	λ (nm)	Power W <sup>^</sup> /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	NR	630	847	NR	760	26	NR	890	1	NR
375	0	NR	505	372	NR	635	790	NR	765	22	NR	895	1	NR
380	0	NR	510	430	NR	640	730	NR	770	19	NR	900	1	NR
385	0	NR	515	483	NR	645	668	NR	775	16	NR	905	1	NR
390	0	NR	520	524	NR	650	605	NR	780	14	NR	910	0	NR
395	2	NR	525	555	NR	655	545	NR	785	12	NR	915	0	NR
400	4	NR	530	581	NR	660	485	NR	790	10	NR	920	0	NR
405	7	NR	535	604	NR	665	430	NR	795	9	NR	925	0	NR
410	17	NR	540	623	NR	670	378	NR	800	8	NR	930	0	NR
415	34	NR	545	645	NR	675	331	NR	805	7	NR	935	0	NR
420	68	NR	550	667	NR	680	290	NR	810	6	NR	940	0	NR
425	128	NR	555	693	NR	685	251	NR	815	5	NR	945	0	NR
430	214	NR	560	719	NR	690	218	NR	820	4	NR	950	0	NR
435	339	NR	565	754	NR	695	188	NR	825	4	NR	955	0	NR
440	507	NR	570	791	NR	700	162	NR	830	3	NR	960	0	NR
445	573	NR	575	830	NR	705	139	NR	835	3	NR	965	0	NR
450	356	NR	580	873	NR	710	119	NR	840	3	NR	970	0	NR
455	217	NR	585	913	NR	715	102	NR	845	2	NR	975	0	NR
460	168	NR	590	948	NR	720	88	NR	850	2	NR	980	0	NR
465	113	NR	595	974	NR	725	76	NR	855	2	NR	985	0	NR
470	85	NR	600	994	NR	730	65	NR	860	1	NR	990	0	NR
475	85	NR	605	998	NR	735	55	NR	865	1	NR	995	0	NR
480	94	NR	610	994	NR	740	47	NR	870	1	NR	1000	0	NR
485	120	NR	615	973	NR	745	41	NR	875	1	NR			

**Summary**

$R_f = 81.5$   
 $R_g = 99.2$   
 $CIE R_a = 81.0$   
 $R_9 = 7.1$

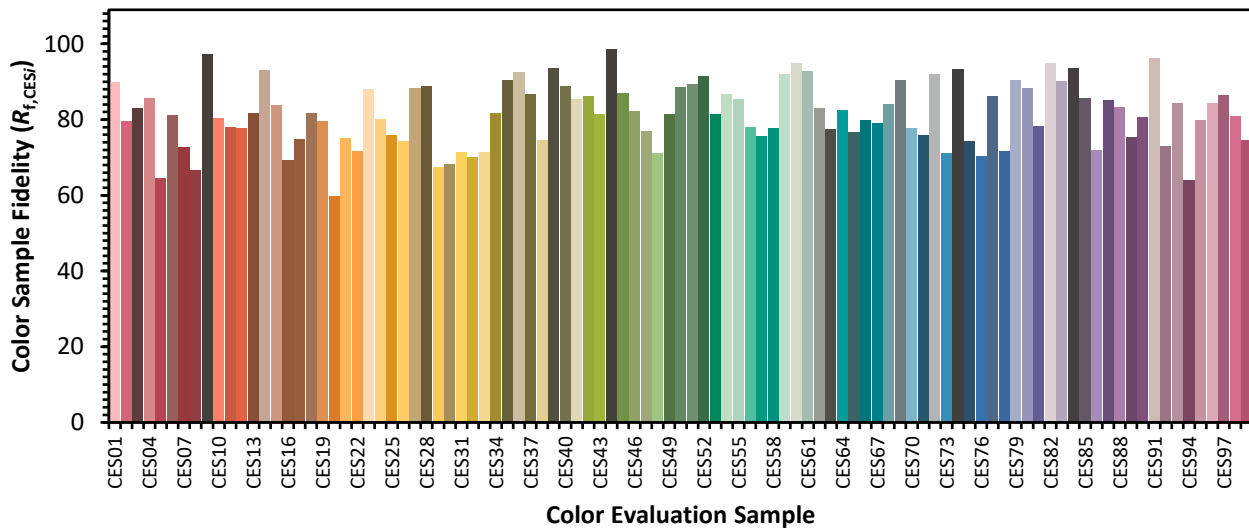


**Color Vector Graphics**

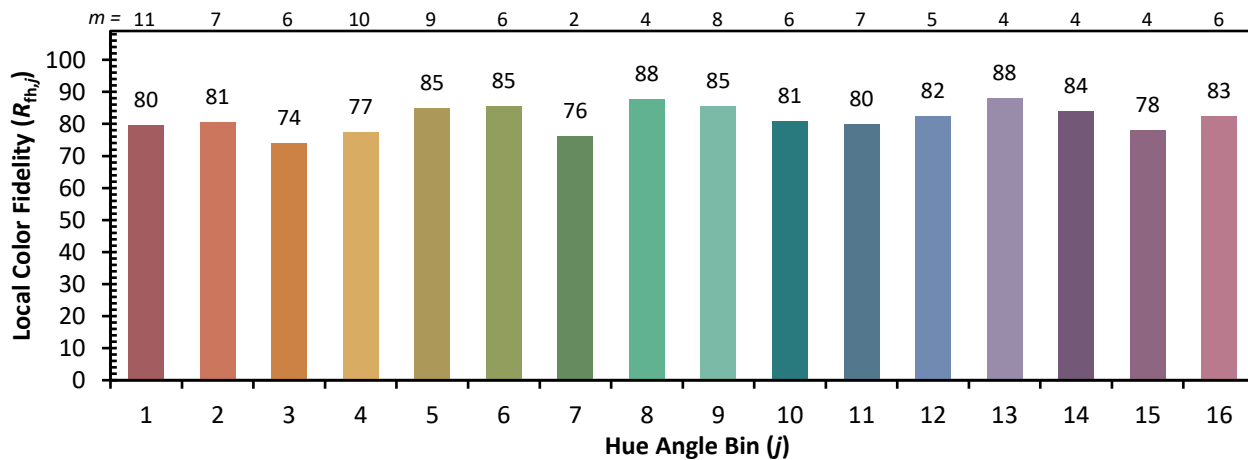
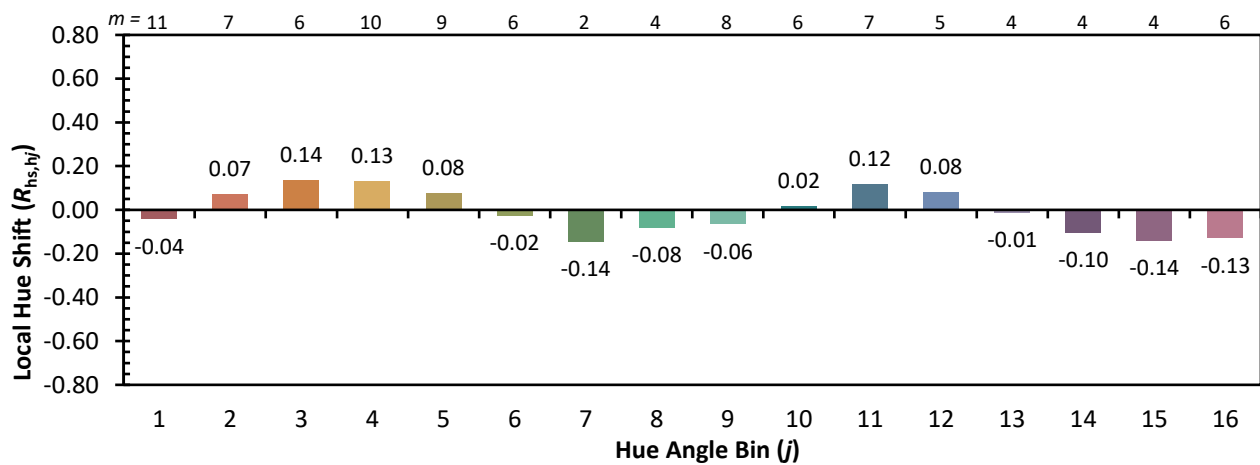
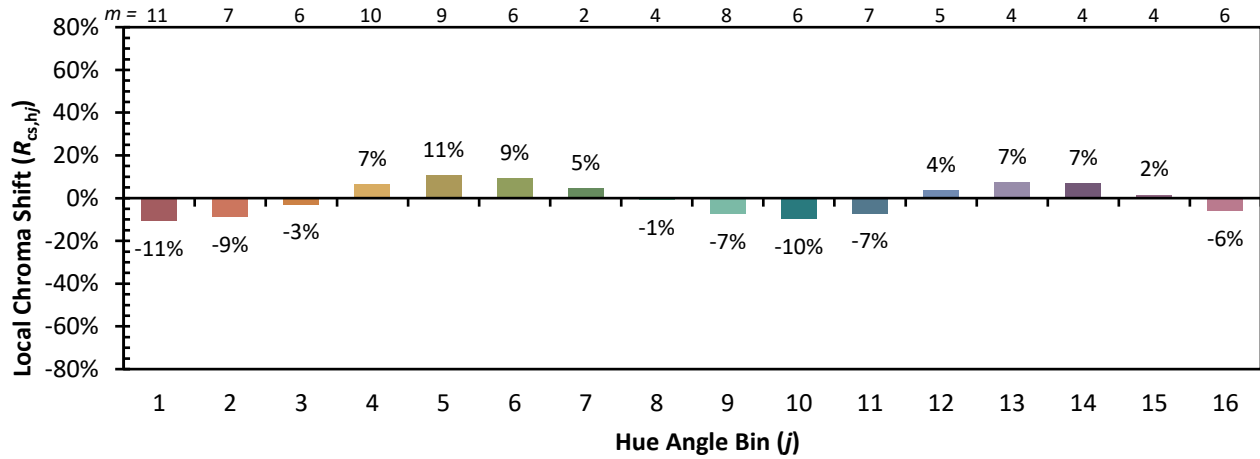


**Individual Sample Fidelity Index ( $R_{f,i}$ )**

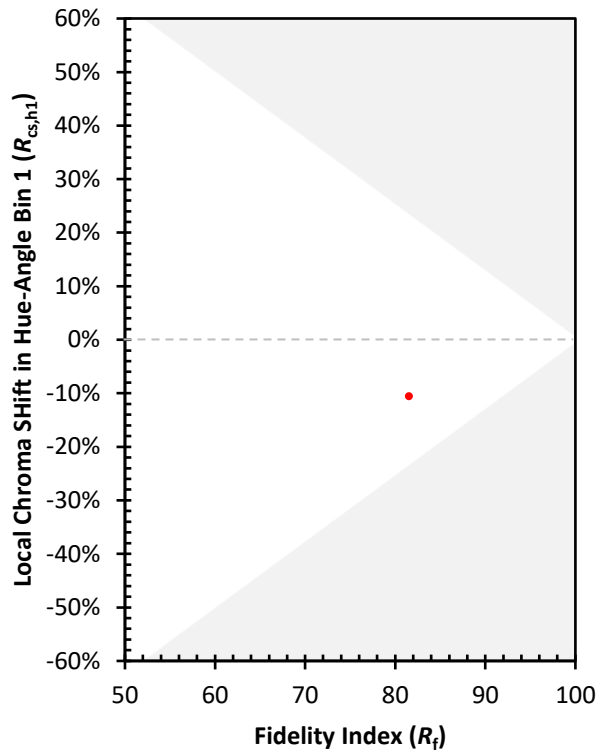
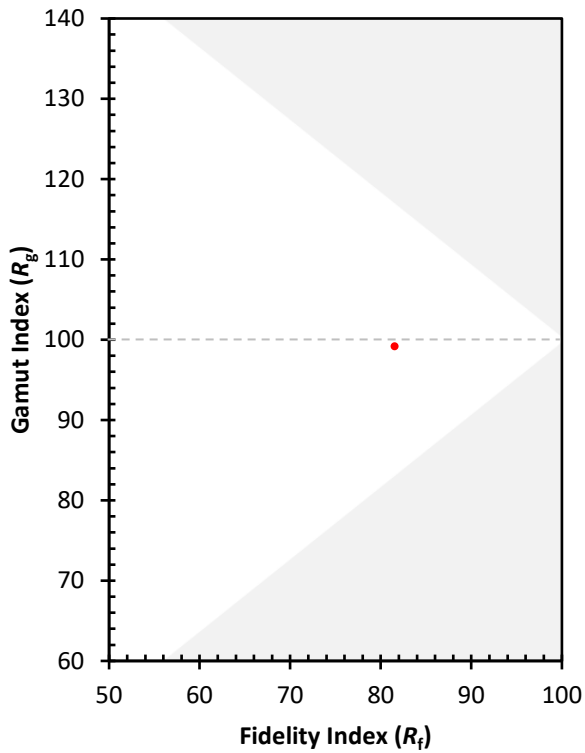
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 95
CES08 = 41	CES33 = 71	CES58 = 78	CES83 = 90
CES09 = 29	CES34 = 82	CES59 = 92	CES84 = 94
CES10 = 76	CES35 = 90	CES60 = 95	CES85 = 86
CES11 = 59	CES36 = 93	CES61 = 93	CES86 = 72
CES12 = 65	CES37 = 87	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 75	CES63 = 77	CES88 = 83
CES14 = 74	CES39 = 94	CES64 = 83	CES89 = 75
CES15 = 71	CES40 = 89	CES65 = 77	CES90 = 81
CES16 = 47	CES41 = 85	CES66 = 80	CES91 = 96
CES17 = 50	CES42 = 86	CES67 = 79	CES92 = 73
CES18 = 56	CES43 = 81	CES68 = 84	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 91	CES94 = 64
CES20 = 66	CES45 = 87	CES70 = 78	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 76	CES96 = 84
CES22 = 79	CES47 = 77	CES72 = 92	CES97 = 87
CES23 = 92	CES48 = 71	CES73 = 71	CES98 = 81
CES24 = 91	CES49 = 81	CES74 = 93	CES99 = 74
CES25 = 72	CES50 = 89	CES75 = 74	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)