

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: P386953

Luminaire Tested: **GPC-SA2C-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386953
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-SA2C-830-U-SLR
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA 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: 10309 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

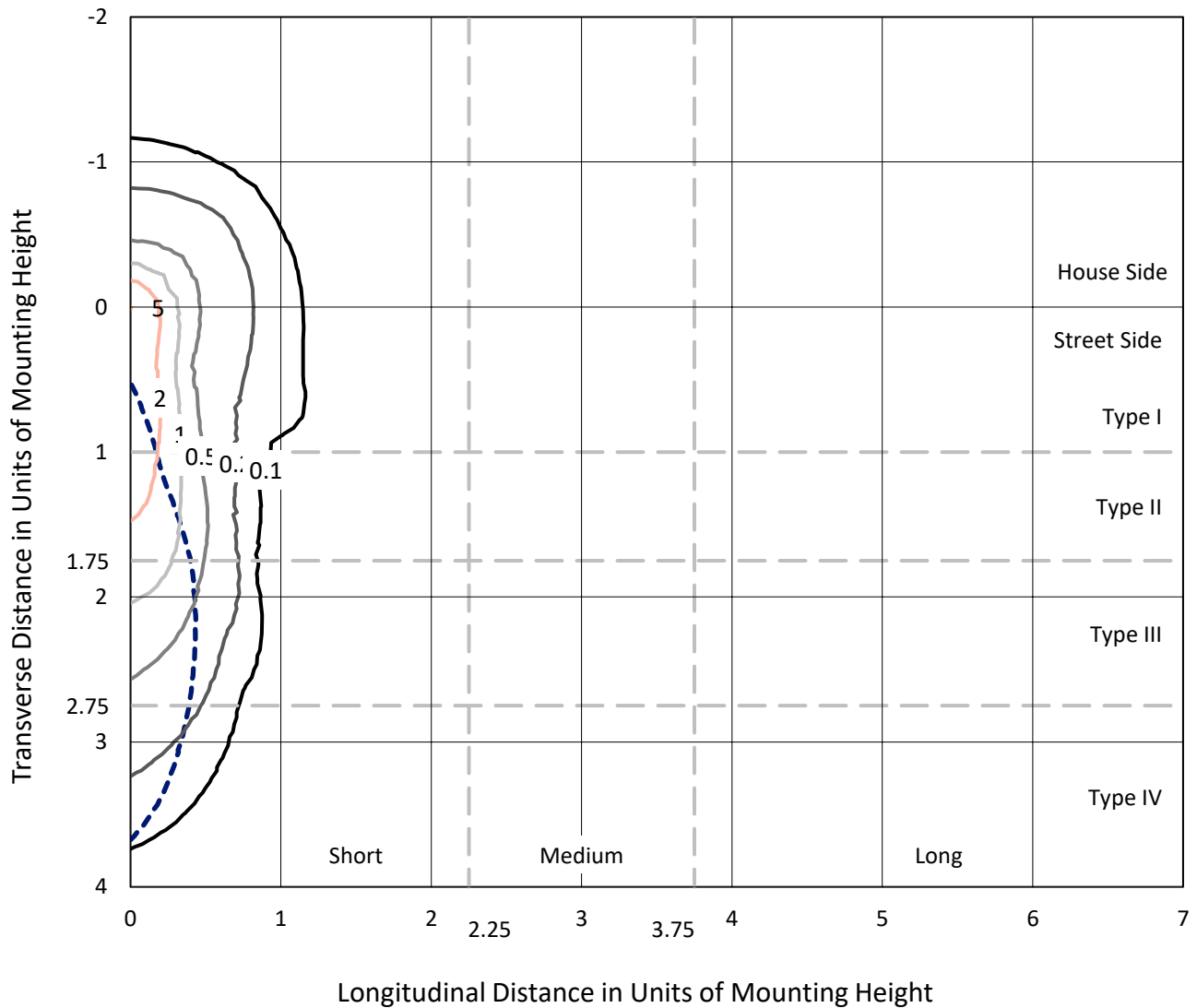
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

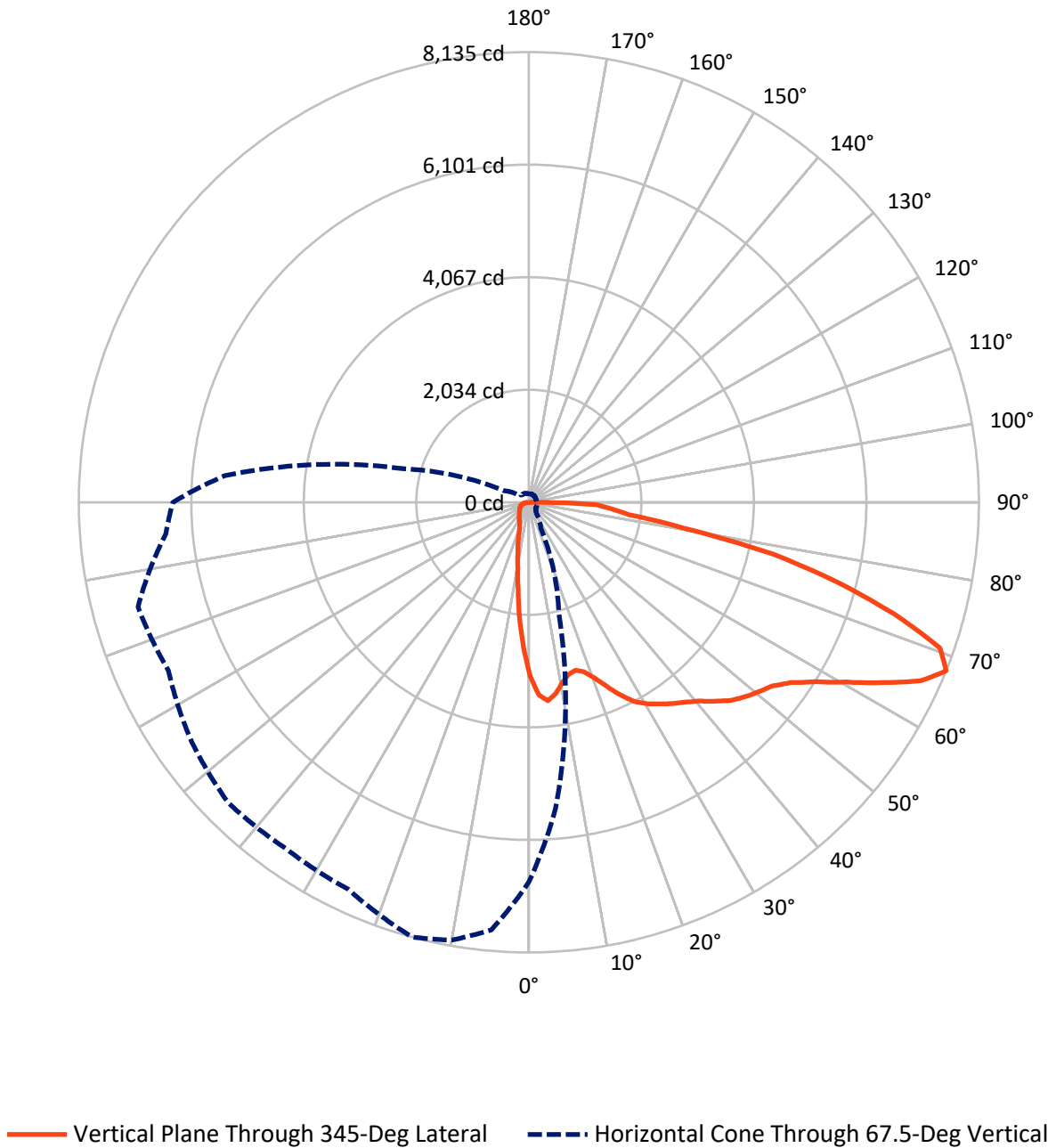
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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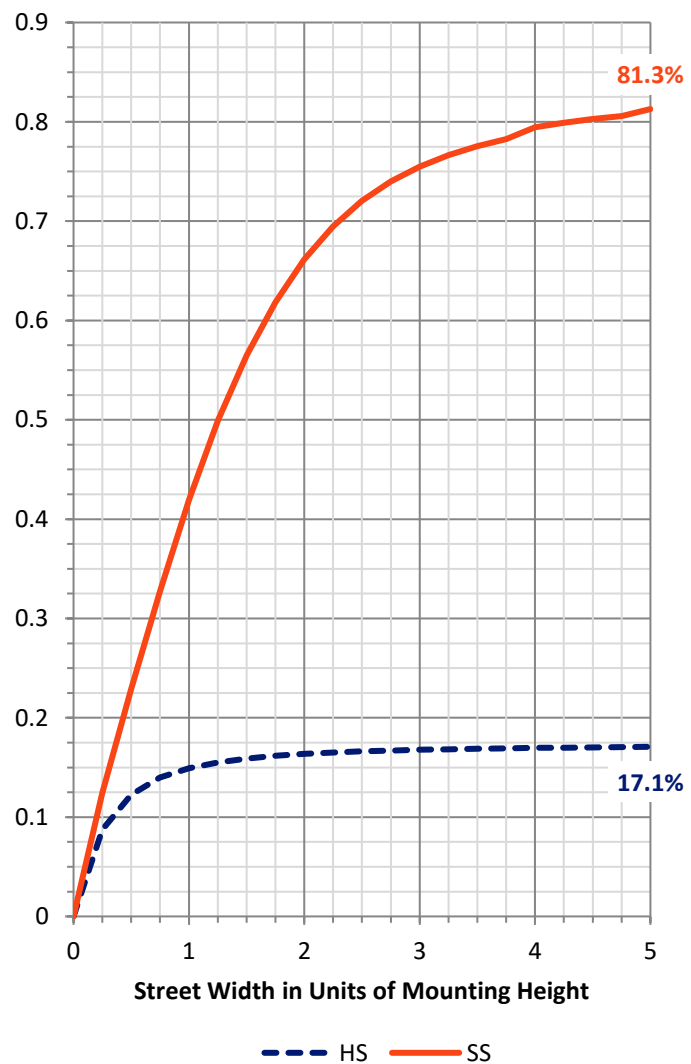
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1782.2	0.0	1782.2
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	8526.8	0.0	8526.8
	% Fixture	82.7	0.0	82.7
Total	Lumens	10309.0	0.0	10309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.4	2.4
10°-20°	503.5	4.9
20°-30°	716.1	6.9
30°-40°	1032.0	10.0
40°-50°	1454.3	14.1
50°-60°	2021.8	19.6
60°-70°	2444.9	23.7
70°-80°	1502.9	14.6
80°-90°	391.1	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°	10309.0	100.0
0°-180°	10309.0	100.0

Coefficient of Utilization

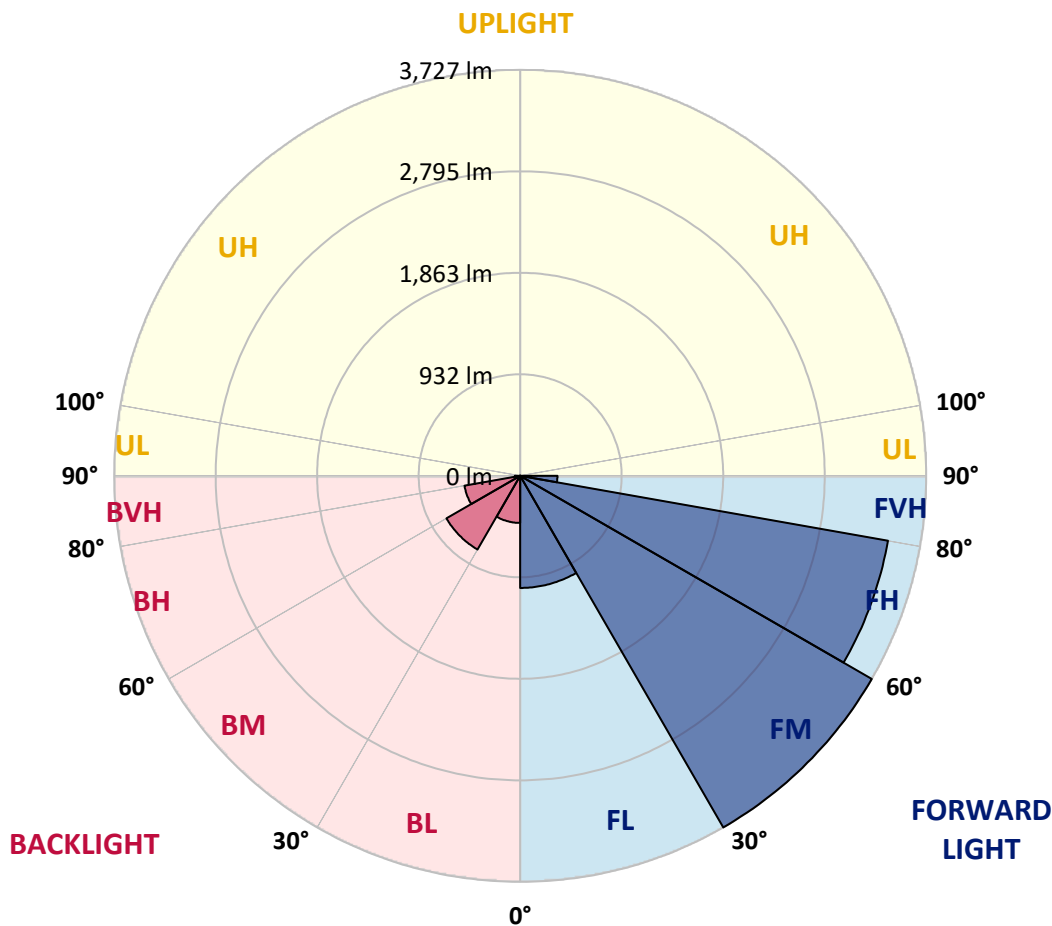


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.4	10.0			
FM (30°-60°)	3727.0	36.2			
FH (60°-80°)	3428.4	33.3			G2/5000
FVH (80°-90°)	342.0	3.3			G3/500
BL (0°-30°)	432.7	4.2	B1/500		
BM (30°-60°)	781.1	7.6	B1/1000		
BH (60°-80°)	519.4	5.0	B2/1000		G2/1000
BVH (80°-90°)	49.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7
2.5°	3364.5	3334.8	3289.9	3245.0	3211.6	3177.8	3139.5	3101.1	3057.5	3013.3	2987.4
5°	3308.9	3226.4	3119.3	3012.1	2941.2	2870.3	2790.0	2709.6	2630.0	2550.5	2507.6
7.5°	3058.3	2934.6	2795.3	2656.0	2553.0	2449.5	2338.2	2226.5	2127.6	2028.3	1966.9
10°	2811.8	2663.4	2503.5	2343.2	2211.3	2079.4	1967.7	1855.6	1781.0	1706.4	1649.9
12.5°	2635.0	2470.5	2294.5	2118.1	1986.2	1854.3	1783.4	1712.6	1650.7	1588.9	1523.8
15°	2564.9	2379.0	2198.9	2018.4	1898.4	1778.5	1699.8	1620.6	1537.8	1454.5	1374.6
17.5°	2626.7	2409.1	2213.3	2017.6	1860.5	1703.5	1593.4	1483.0	1373.8	1264.5	1171.8
20°	2819.6	2541.8	2285.9	2029.5	1820.5	1611.6	1464.0	1316.0	1175.9	1035.8	930.7
22.5°	3090.4	2722.8	2388.5	2054.2	1784.3	1513.9	1328.8	1143.3	977.7	812.0	708.9
25°	3419.3	2962.7	2536.5	2109.9	1769.4	1428.6	1201.1	973.5	798.8	623.6	550.2
27.5°	3766.0	3248.7	2720.3	2191.5	1771.9	1352.3	1093.5	834.2	676.8	519.3	469.0
30°	4054.9	3575.5	2934.6	2293.3	1781.4	1269.5	992.1	714.7	584.9	455.0	422.5
32.5°	4319.1	3803.5	3096.2	2388.5	1792.1	1195.3	913.8	631.9	525.9	419.6	392.8
35°	4591.9	4005.8	3209.1	2412.0	1773.6	1134.7	860.2	585.7	488.0	389.9	367.2
37.5°	4892.4	4224.7	3317.9	2410.8	1742.2	1073.7	818.6	563.0	463.3	363.1	346.6
40°	5227.5	4466.6	3435.8	2405.0	1713.8	1022.2	787.7	552.7	449.7	346.2	332.2
42.5°	5555.2	4697.5	3545.5	2393.5	1690.7	987.6	757.1	526.7	437.3	347.5	327.7
45°	5801.2	4899.0	3640.7	2381.9	1673.4	964.9	733.2	501.6	425.8	349.9	324.8
47.5°	5988.0	5101.4	3746.2	2390.6	1671.7	952.9	716.3	479.8	403.9	327.7	317.4
50°	6225.4	5344.6	3899.9	2455.3	1694.4	933.6	696.6	459.2	382.9	306.7	320.7
52.5°	6520.9	5691.6	4138.2	2584.3	1741.8	899.3	665.2	431.1	357.3	283.2	305.0
55°	6954.9	6136.3	4442.7	2748.7	1799.1	849.1	617.8	386.2	323.6	260.5	279.9
57.5°	7344.4	6585.6	4735.0	2883.9	1835.0	785.6	558.1	330.6	285.6	240.7	251.8
60°	7517.9	6817.2	4871.8	2926.0	1813.5	701.1	490.9	280.3	252.2	224.2	222.2
62.5°	7450.3	6670.1	4737.0	2804.0	1708.8	613.7	431.5	249.4	228.3	206.9	202.4
65°	7252.5	6207.6	4359.5	2511.3	1532.0	552.7	394.0	235.3	211.9	188.4	183.4
67.5°	6862.6	5549.4	3824.5	2099.6	1307.4	515.2	372.6	230.0	201.5	172.7	166.9
70°	6162.7	4757.2	3208.3	1659.0	1075.8	492.1	358.6	225.0	190.4	155.4	150.0
72.5°	5061.8	3814.2	2562.0	1309.5	899.3	489.2	356.9	224.6	181.4	138.1	133.1
75°	3624.2	2897.1	1955.7	1013.9	736.5	459.2	338.8	218.4	169.0	119.1	114.6
77.5°	2438.8	2005.2	1359.3	713.0	546.5	380.0	284.8	189.6	144.7	99.7	95.2
80°	1566.2	1387.8	910.9	434.0	354.5	274.9	203.6	132.3	105.5	78.3	74.6
82.5°	1149.1	1032.9	633.1	233.3	197.0	160.3	124.5	88.6	72.1	55.6	54.0
85°	730.4	805.4	466.2	126.9	103.9	80.8	66.8	52.8	41.6	30.5	30.5
87.5°	141.8	196.2	129.0	61.4	44.9	28.4	24.3	19.8	11.1	2.1	2.5
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°	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7
2.5°	2961.0	2932.6	2904.1	2872.0	2839.4	2809.3	2778.8	2745.4	2751.6	2726.1	2700.5
5°	2464.8	2419.4	2373.7	2334.1	2294.5	2260.3	2225.7	2194.8	2221.6	2203.4	2185.3
7.5°	1905.0	1849.0	1792.5	1745.1	1697.7	1661.0	1623.9	1598.4	1624.8	1621.5	1618.2
10°	1593.4	1539.0	1484.2	1431.9	1379.5	1335.0	1290.1	1252.2	1245.6	1226.6	1207.2
12.5°	1458.2	1383.6	1308.6	1253.8	1199.0	1145.8	1092.7	1048.1	1027.9	996.6	964.9
15°	1294.6	1206.4	1118.2	1056.0	993.3	941.8	889.9	851.5	838.8	814.4	790.1
17.5°	1079.1	982.6	886.2	823.1	759.6	718.4	676.8	651.2	651.2	644.2	637.2
20°	825.6	739.4	653.3	605.1	556.8	535.0	512.7	502.0	505.3	505.7	505.7
22.5°	605.5	552.7	500.0	480.6	460.8	453.0	445.1	440.6	442.3	442.7	443.1
25°	476.9	456.7	436.1	426.2	415.9	410.9	406.0	404.3	408.0	408.5	408.5
27.5°	418.8	406.4	393.6	387.4	380.8	378.8	376.7	373.8	377.5	377.5	377.1
30°	389.5	376.3	363.1	355.3	347.5	348.3	348.7	347.9	350.3	352.0	353.2
32.5°	365.6	352.8	340.0	332.2	324.0	322.7	321.5	320.7	326.0	328.9	331.8
35°	344.2	330.1	316.1	308.7	301.3	298.4	295.5	293.5	298.4	302.1	305.8
37.5°	329.7	315.3	300.5	293.5	286.0	282.3	278.6	276.2	278.2	279.9	281.5
40°	318.2	303.4	288.1	279.9	271.6	267.9	264.2	262.1	263.4	263.8	264.2
42.5°	307.5	293.1	278.6	269.6	260.1	255.5	251.0	248.5	249.4	250.2	250.6
45°	299.6	285.2	270.4	259.7	248.5	243.6	238.6	235.8	236.2	236.2	236.2
47.5°	307.1	286.0	264.6	252.2	239.5	233.7	227.9	225.0	224.2	223.4	222.6
50°	334.3	298.4	262.1	246.5	230.4	224.2	217.6	214.3	212.3	211.4	210.6
52.5°	326.4	295.5	264.2	244.0	223.4	216.0	208.6	203.2	201.1	199.9	198.7
55°	298.8	279.4	259.7	235.3	211.0	204.4	197.4	193.7	190.0	189.2	188.4
57.5°	262.6	254.7	246.9	222.2	197.4	191.2	184.7	182.2	178.9	178.9	178.5
60°	219.7	231.2	242.8	214.3	185.5	178.5	171.5	169.4	168.2	167.8	167.3
62.5°	197.4	216.4	234.9	204.8	174.3	166.9	159.5	157.0	156.6	157.0	157.0
65°	178.5	184.2	190.0	176.0	162.0	154.6	146.7	144.3	145.1	146.3	147.6
67.5°	161.2	159.9	158.7	153.7	148.4	142.2	135.6	133.1	133.5	135.2	136.8
70°	144.7	143.0	141.0	137.3	133.5	128.2	122.8	121.2	120.8	122.8	124.5
72.5°	128.2	126.1	123.6	120.8	117.5	112.9	108.4	107.2	107.6	108.8	110.0
75°	110.0	108.4	106.3	103.9	101.0	96.9	92.7	91.9	92.7	94.0	95.2
77.5°	90.3	89.9	89.0	87.0	84.9	80.4	75.4	75.0	76.3	77.5	78.3
80°	70.5	70.9	71.3	69.7	68.0	63.1	57.7	57.3	58.5	59.8	61.0
82.5°	51.9	53.2	54.0	51.9	49.9	44.1	38.3	37.5	41.6	42.9	44.1
85°	30.1	31.7	33.4	31.7	30.1	24.3	18.5	18.1	21.8	23.9	26.0
87.5°	2.5	3.3	4.1	3.7	3.3	1.6	0.0	0.0	0.4	2.1	3.7
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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 CATALOG NUMBER: GPC-SA2C-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: P386953
 CATALOG NUMBER: GPC-SA2C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7
2.5°	2684.4	2668.4	2663.4	2658.5	2640.3	2621.8	2640.8	2659.3	2667.1	2675.0	2654.8
5°	2182.8	2179.9	2179.9	2179.5	2163.0	2146.2	2158.9	2171.3	2143.7	2116.1	2113.2
7.5°	1635.9	1653.6	1668.0	1682.1	1676.7	1671.3	1683.3	1695.2	1660.2	1624.8	1607.4
10°	1211.4	1215.1	1230.7	1246.4	1250.1	1253.4	1268.2	1282.7	1255.5	1228.3	1216.3
12.5°	945.1	925.3	927.4	929.0	936.4	943.4	959.1	974.4	963.2	951.7	952.9
15°	765.4	740.3	729.9	719.2	727.5	735.7	746.8	757.6	758.0	758.0	768.7
17.5°	624.8	612.1	601.8	591.0	602.2	612.9	614.1	615.4	615.8	616.2	615.4
20°	511.9	518.1	514.8	511.5	515.6	519.3	522.6	525.5	521.8	517.7	507.4
22.5°	448.8	454.2	458.3	462.0	469.0	475.6	472.3	468.6	461.2	453.4	445.6
25°	412.2	415.9	420.0	424.1	429.9	435.2	429.5	423.7	418.3	413.0	407.6
27.5°	381.3	385.0	388.7	392.0	397.3	402.3	396.9	391.6	387.0	382.5	378.4
30°	356.1	358.6	361.5	364.4	369.3	373.8	369.3	364.4	361.1	357.3	354.5
32.5°	334.7	337.2	338.4	339.6	344.2	348.7	345.4	342.1	339.2	336.3	334.3
35°	311.2	316.1	317.0	317.8	322.3	326.8	324.8	322.3	319.0	315.7	312.0
37.5°	287.3	293.1	296.3	299.2	303.8	308.3	306.2	304.2	299.6	295.1	288.5
40°	267.1	269.6	275.7	281.5	288.9	295.9	291.8	287.3	280.3	273.3	270.0
42.5°	250.2	249.8	255.5	261.3	272.4	283.2	275.7	268.3	261.7	255.1	254.3
45°	235.3	234.1	237.0	239.9	251.8	263.4	256.0	248.1	244.4	240.7	240.7
47.5°	222.2	221.3	223.4	225.0	232.5	239.5	235.8	232.0	230.0	227.9	228.3
50°	210.2	209.4	211.4	213.1	216.0	218.4	219.3	219.7	218.4	217.2	218.0
52.5°	199.1	199.1	199.9	200.3	204.0	207.7	207.7	207.3	207.3	207.3	208.1
55°	189.6	190.4	190.4	190.4	196.2	201.5	199.9	198.3	198.7	198.7	199.5
57.5°	180.1	181.4	182.2	183.0	188.8	194.5	192.9	191.2	191.2	191.2	191.7
60°	169.4	171.0	172.7	174.3	180.1	185.9	184.2	182.2	182.6	183.0	183.4
62.5°	159.1	160.7	162.4	164.0	169.8	175.6	173.9	171.9	173.1	173.9	173.9
65°	149.2	150.4	152.1	153.7	159.1	164.5	162.8	161.2	162.8	164.0	164.9
67.5°	138.1	138.9	140.5	142.2	147.6	152.9	151.3	149.2	151.3	152.9	154.6
70°	125.3	126.1	128.2	129.8	135.2	140.5	138.5	136.4	138.5	140.5	142.2
72.5°	111.3	112.1	114.2	115.8	122.0	128.2	125.7	123.2	125.7	128.2	129.0
75°	96.0	96.9	99.3	101.4	107.6	113.8	111.7	109.2	111.3	113.3	113.8
77.5°	79.5	80.8	84.1	87.4	92.3	97.3	96.0	94.8	96.0	97.3	97.3
80°	62.2	63.5	67.6	71.3	74.2	77.1	77.5	77.9	78.3	78.7	78.3
82.5°	46.2	47.8	51.5	55.2	55.2	55.2	58.5	61.4	61.4	61.0	60.6
85°	28.4	30.5	33.8	37.1	35.0	33.0	38.3	43.3	43.3	42.9	42.0
87.5°	5.8	7.8	11.1	14.0	12.0	9.9	15.3	20.6	21.0	21.0	20.2
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: P386953
 CATALOG NUMBER: GPC-SA2C-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: P386953
 CATALOG NUMBER: GPC-SA2C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7
2.5°	2634.2	2666.3	2698.0	2706.3	2718.6	2724.0	2729.0	2769.3	2809.3	2856.3	2903.3
5°	2109.9	2133.8	2157.7	2161.4	2174.2	2180.8	2187.4	2236.4	2285.1	2350.6	2416.1
7.5°	1590.1	1595.9	1601.7	1600.9	1611.6	1626.0	1640.0	1692.4	1744.3	1814.8	1884.8
10°	1204.4	1217.5	1230.3	1242.3	1265.8	1293.0	1319.8	1373.3	1426.9	1496.6	1565.8
12.5°	954.2	969.4	984.3	997.4	1024.6	1060.9	1096.8	1161.1	1225.4	1308.6	1391.5
15°	779.0	777.8	776.5	785.6	809.5	849.1	888.2	956.2	1024.2	1115.7	1206.8
17.5°	614.5	608.4	602.2	609.2	631.4	664.0	696.1	753.9	811.1	899.8	988.4
20°	497.1	493.0	488.8	495.4	509.4	523.0	536.6	578.3	619.5	691.6	763.3
22.5°	437.3	436.9	436.1	439.8	446.4	453.4	460.0	480.2	500.0	546.5	592.7
25°	402.3	401.9	401.5	403.1	408.5	413.8	419.2	432.4	445.6	467.8	490.1
27.5°	374.2	373.4	372.6	373.0	374.2	382.5	390.3	396.5	402.3	417.5	432.4
30°	351.6	351.2	350.8	350.8	349.5	352.4	355.3	364.8	373.8	389.5	405.2
32.5°	332.2	330.1	328.1	323.6	320.7	324.8	328.9	338.8	348.7	363.1	377.5
35°	307.9	302.5	296.8	294.3	294.7	298.8	302.9	312.8	322.3	338.0	353.2
37.5°	281.5	279.9	277.8	277.4	278.6	282.7	286.9	295.5	303.8	319.4	334.7
40°	266.7	265.8	265.0	264.2	265.0	269.1	273.3	281.5	289.3	304.6	319.4
42.5°	253.5	253.1	252.7	252.7	253.1	257.6	262.1	270.4	278.2	291.8	305.4
45°	240.7	241.1	241.1	241.9	243.2	247.7	251.8	260.9	270.0	283.2	296.3
47.5°	228.8	230.0	230.8	232.9	234.1	239.1	243.6	253.5	263.4	279.9	295.9
50°	218.4	219.7	220.5	222.2	225.5	231.2	237.0	248.9	260.5	288.1	315.3
52.5°	209.0	210.2	211.4	213.1	217.2	223.8	230.4	245.2	259.7	291.8	324.0
55°	200.3	201.5	202.4	204.8	209.0	214.7	220.1	238.2	256.4	279.9	303.4
57.5°	192.1	193.3	194.1	195.8	197.8	204.0	209.8	229.2	248.5	265.0	281.1
60°	183.4	184.2	184.7	184.7	186.3	193.3	200.3	225.0	249.4	246.5	243.2
62.5°	173.9	174.8	175.2	173.9	176.0	183.4	190.8	223.0	255.1	235.3	215.6
65°	165.3	164.9	164.5	163.2	165.7	173.1	180.1	196.2	212.3	204.4	196.6
67.5°	155.8	154.6	153.3	151.7	154.2	160.7	166.9	172.3	177.6	178.5	179.3
70°	143.8	142.2	140.5	140.1	141.4	146.7	152.1	155.8	159.1	160.7	162.0
72.5°	129.8	128.6	127.4	126.5	126.9	131.5	135.6	138.9	142.2	143.4	144.3
75°	114.2	114.2	113.8	111.3	111.3	115.0	118.3	121.2	124.1	125.7	127.4
77.5°	97.3	97.7	97.7	94.4	94.0	97.7	101.0	103.5	105.5	107.2	108.4
80°	77.9	77.1	76.3	74.2	73.4	77.9	82.0	84.1	85.7	86.1	86.1
82.5°	59.8	58.1	56.1	51.5	51.9	56.9	61.4	63.1	64.7	64.7	64.7
85°	40.8	37.5	33.8	30.1	30.5	35.9	40.8	42.5	44.1	44.9	45.3
87.5°	19.4	16.1	12.4	9.5	9.5	14.0	18.1	19.0	19.8	21.4	23.1
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: P386953
 CATALOG NUMBER: GPC-SA2C-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: P386953

CATALOG NUMBER: GPC-SA2C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7
2.5°	2939.2	2974.6	3011.3	3048.0	3090.0	3132.1	3181.1	3229.7	3271.4	3313.0	3347.6
5°	2472.6	2529.1	2595.4	2661.8	2746.3	2830.8	2934.2	3037.3	3129.2	3221.1	3327.8
7.5°	1958.6	2032.0	2118.5	2205.1	2314.3	2423.5	2557.5	2691.4	2821.3	2950.7	3114.7
10°	1642.9	1720.0	1805.3	1890.2	2001.5	2112.4	2254.1	2395.5	2541.4	2686.9	2872.4
12.5°	1477.2	1562.5	1637.5	1712.6	1802.8	1892.7	2029.9	2167.2	2338.6	2509.7	2688.1
15°	1300.4	1393.5	1483.4	1573.2	1671.7	1769.8	1903.4	2036.9	2224.5	2412.0	2617.3
17.5°	1086.5	1184.6	1294.2	1403.4	1532.0	1660.2	1831.3	2002.3	2224.5	2446.2	2688.1
20°	863.5	963.6	1094.7	1225.8	1385.7	1545.2	1767.0	1988.7	2287.9	2586.8	2895.5
22.5°	681.3	769.5	912.5	1055.1	1239.8	1424.4	1708.8	1992.8	2384.0	2774.7	3191.4
25°	552.3	614.5	755.1	895.2	1108.3	1321.4	1673.4	2025.0	2523.7	3022.0	3538.9
27.5°	473.2	514.0	645.0	775.7	1008.6	1241.0	1659.0	2076.5	2700.9	3325.4	3916.8
30°	433.6	462.0	572.9	683.4	920.0	1156.5	1641.7	2126.8	2871.6	3615.9	4212.3
32.5°	400.6	423.3	518.1	612.5	843.3	1074.1	1608.3	2142.0	2990.7	3839.3	4462.5
35°	372.6	391.6	474.0	556.4	783.1	1009.8	1552.2	2094.6	3065.3	4035.9	4723.0
37.5°	349.9	364.8	441.0	517.3	731.2	945.1	1488.3	2031.6	3131.6	4231.7	5016.1
40°	332.2	345.0	416.3	487.6	681.7	875.9	1433.5	1990.8	3223.1	4455.5	5325.6
42.5°	322.3	338.8	394.9	450.5	634.7	819.0	1389.4	1959.9	3308.0	4655.8	5596.4
45°	319.8	343.3	383.7	424.1	599.7	775.3	1350.3	1924.8	3362.9	4800.9	5800.4
47.5°	315.7	335.1	375.1	415.1	582.4	749.3	1329.2	1908.7	3417.7	4926.2	5969.8
50°	318.2	320.7	368.1	415.1	579.9	744.8	1353.1	1961.5	3536.4	5110.9	6163.5
52.5°	313.7	302.9	354.9	406.8	579.5	752.2	1422.0	2091.7	3756.9	5421.6	6373.3
55°	289.8	275.7	330.1	384.6	570.9	756.7	1504.0	2250.8	4052.8	5854.4	6750.5
57.5°	268.7	256.0	302.1	347.9	544.5	741.1	1588.5	2435.5	4365.7	6295.4	7175.4
60°	240.7	237.8	270.8	303.8	503.7	703.2	1658.1	2612.7	4575.9	6538.6	7339.0
62.5°	217.6	219.3	243.6	267.9	452.6	636.8	1681.2	2725.2	4570.1	6415.0	7174.2
65°	199.9	202.8	226.7	250.6	408.9	567.1	1605.4	2643.2	4338.9	6034.1	6848.1
67.5°	182.6	185.9	214.3	242.4	370.1	497.5	1415.8	2333.7	3923.0	5511.9	6433.5
70°	166.1	170.2	201.1	232.0	342.1	451.7	1171.4	1891.0	3402.4	4913.4	5953.3
72.5°	148.4	152.5	185.5	218.4	324.4	429.9	955.0	1479.7	2761.1	4042.1	5092.3
75°	130.2	133.1	169.0	204.4	300.1	395.7	749.3	1102.5	2113.2	3123.8	3846.3
77.5°	112.1	115.8	145.9	175.6	254.7	333.4	564.7	795.9	1550.6	2304.8	2675.0
80°	89.4	92.7	114.2	135.2	196.6	257.6	388.3	518.9	1067.1	1615.3	1823.8
82.5°	68.4	72.1	86.6	100.6	140.1	179.7	235.3	291.0	708.9	1126.5	1143.8
85°	47.0	48.2	58.5	68.4	86.6	104.7	134.8	164.9	469.0	773.2	644.2
87.5°	23.5	23.5	30.5	37.5	46.6	55.6	71.3	86.6	150.0	213.5	122.8
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: P386953
 CATALOG NUMBER: GPC-SA2C-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: P386953

CATALOG NUMBER: GPC-SA2C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7
2.5°	3391.7	3421.8	3452.3	3475.4	3498.9	3532.7	3566.5	3572.7	3579.3	3566.1	3552.9
5°	3435.4	3526.5	3618.0	3702.5	3787.0	3837.7	3888.4	3898.7	3909.0	3877.2	3845.1
7.5°	3273.4	3432.1	3590.8	3736.3	3881.8	3970.0	4058.6	4078.4	4098.6	4046.7	3994.7
10°	3057.0	3252.0	3446.9	3638.6	3830.3	3958.4	4086.6	4112.2	4137.7	4073.0	4008.3
12.5°	2889.7	3097.8	3306.0	3507.9	3710.3	3843.0	3975.8	4007.5	4039.2	3992.2	3944.8
15°	2838.2	3034.0	3229.7	3405.7	3582.1	3690.5	3799.4	3812.1	3825.3	3817.9	3810.5
17.5°	2931.7	3108.6	3285.8	3381.4	3477.4	3520.7	3564.4	3578.4	3592.9	3611.4	3630.4
20°	3158.4	3282.9	3407.8	3403.7	3399.1	3378.1	3356.7	3353.0	3349.3	3402.4	3456.0
22.5°	3496.8	3546.3	3596.2	3480.3	3364.5	3294.0	3223.1	3209.1	3194.7	3251.2	3308.0
25°	3864.1	3855.0	3845.5	3625.0	3404.1	3269.7	3135.4	3119.7	3104.0	3152.2	3200.9
27.5°	4227.6	4168.2	4108.9	3809.2	3509.6	3314.6	3119.7	3104.0	3088.4	3131.2	3174.1
30°	4494.3	4399.1	4303.8	3964.6	3625.4	3393.8	3162.1	3136.6	3110.6	3163.4	3216.1
32.5°	4702.4	4574.6	4446.9	4090.8	3734.6	3484.0	3233.4	3193.5	3153.5	3224.0	3294.4
35°	4910.1	4730.4	4550.3	4203.3	3855.8	3590.8	3325.4	3276.3	3227.3	3324.1	3421.0
37.5°	5171.5	4913.4	4655.0	4329.8	4004.6	3750.7	3496.4	3446.1	3395.8	3519.1	3642.7
40°	5455.0	5110.9	4766.7	4468.3	4169.9	3972.0	3773.8	3726.0	3677.8	3827.8	3977.8
42.5°	5690.8	5294.7	4898.6	4635.2	4371.4	4232.1	4092.4	4092.0	4091.2	4243.3	4395.3
45°	5882.4	5448.0	5013.2	4798.0	4582.5	4509.9	4437.4	4495.5	4553.6	4690.9	4828.5
47.5°	6025.5	5576.6	5127.4	4984.3	4841.3	4852.0	4862.7	4981.0	5099.3	5187.5	5276.1
50°	6118.6	5693.3	5267.5	5223.4	5179.3	5275.3	5371.8	5507.4	5643.4	5703.6	5763.7
52.5°	6254.2	5851.5	5448.4	5497.9	5547.3	5743.5	5939.7	6077.0	6214.2	6236.5	6259.2
55°	6567.9	6142.5	5716.7	5811.5	5906.8	6194.4	6482.6	6589.7	6696.9	6705.1	6713.4
57.5°	7013.4	6550.1	6086.9	6189.1	6291.3	6623.5	6956.1	7071.5	7187.4	7171.3	7154.8
60°	7346.9	6937.2	6527.1	6630.1	6733.2	7057.1	7381.1	7513.8	7646.9	7611.5	7576.0
62.5°	7367.5	7148.6	6929.3	7022.5	7116.1	7433.4	7750.8	7887.2	8023.6	7961.8	7900.0
65°	7039.8	7137.9	7236.0	7266.9	7297.8	7593.8	7890.1	7994.4	8099.1	8067.7	8036.4
67.5°	6588.5	6950.0	7311.8	7249.6	7187.4	7326.3	7465.2	7572.7	7680.3	7662.6	7644.5
70°	6138.0	6620.6	7103.3	6797.4	6491.2	6433.9	6376.6	6492.4	6608.7	6537.0	6464.8
72.5°	5370.9	5885.3	6400.1	5836.7	5273.3	5077.5	4881.7	5028.8	5176.0	5061.8	4947.2
75°	4216.1	4784.4	5353.2	4681.0	4008.7	3747.4	3486.1	3612.6	3739.2	3660.9	3582.1
77.5°	3138.6	3698.8	4258.9	3575.5	2891.8	2697.6	2503.1	2540.6	2578.5	2565.3	2551.7
80°	2128.8	2519.2	2909.9	2454.9	1999.8	2014.7	2029.9	2012.2	1994.1	2020.4	2046.8
82.5°	1358.5	1659.8	1961.5	1720.0	1478.4	1616.9	1755.4	1687.4	1619.0	1644.1	1669.7
85°	775.3	1070.0	1365.1	1272.4	1179.2	1260.0	1341.2	1235.7	1130.2	1176.3	1222.9
87.5°	204.4	591.9	979.7	889.5	799.2	694.5	589.8	450.1	310.4	453.4	596.4
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: P386953
 CATALOG NUMBER: GPC-SA2C-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: P386953

CATALOG NUMBER: GPC-SA2C-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7	3140.7
2.5°	3545.9	3538.9	3513.7	3488.2	3450.2	3418.9	3364.5
5°	3800.6	3756.1	3679.4	3602.3	3516.6	3418.1	3308.9
7.5°	3890.9	3786.6	3639.4	3491.9	3359.2	3203.4	3058.3
10°	3852.5	3696.3	3505.1	3313.4	3152.2	2973.0	2811.8
12.5°	3779.2	3613.1	3402.4	3191.4	3008.0	2815.5	2635.0
15°	3678.2	3545.5	3348.0	3150.6	2965.9	2778.8	2564.9
17.5°	3567.7	3504.7	3362.0	3219.0	3059.1	2877.7	2626.7
20°	3478.7	3501.8	3444.9	3388.0	3259.8	3101.6	2819.6
22.5°	3418.5	3529.4	3573.1	3617.2	3540.1	3416.4	3090.4
25°	3384.7	3568.5	3714.9	3861.6	3827.4	3732.2	3419.3
27.5°	3399.5	3625.0	3852.1	4079.6	4111.4	4085.0	3766.0
30°	3444.1	3672.4	3949.0	4225.9	4352.5	4387.9	4054.9
32.5°	3518.3	3742.1	4043.4	4345.1	4536.3	4649.2	4319.1
35°	3630.4	3839.7	4153.8	4467.9	4715.2	4921.3	4591.9
37.5°	3822.8	4003.0	4292.7	4582.9	4903.5	5213.1	4892.4
40°	4104.8	4232.1	4477.0	4722.2	5125.7	5543.6	5227.5
42.5°	4460.5	4526.0	4720.1	4914.3	5357.8	5843.7	5555.2
45°	4845.8	4863.2	4985.2	5107.6	5541.6	6048.1	5801.2
47.5°	5216.8	5157.4	5206.1	5254.7	5682.5	6194.0	5988.0
50°	5598.5	5433.2	5407.6	5382.1	5823.5	6365.9	6225.4
52.5°	5986.7	5714.3	5613.3	5511.9	5991.7	6593.8	6520.9
55°	6366.7	6020.1	5884.1	5748.1	6248.9	6872.1	6954.9
57.5°	6762.0	6369.2	6243.1	6117.0	6626.8	7224.5	7344.4
60°	7187.4	6798.3	6697.3	6595.9	7096.7	7605.3	7517.9
62.5°	7590.9	7281.7	7228.6	7175.0	7571.9	7897.9	7450.3
65°	7860.4	7684.0	7733.5	7783.4	7931.3	7970.9	7252.5
67.5°	7680.3	7716.2	7925.1	8134.5	8032.7	7754.1	6862.6
70°	6679.6	6894.7	7389.7	7885.2	7659.3	7173.3	6162.7
72.5°	5188.8	5430.7	6165.6	6900.9	6692.8	6097.6	5061.8
75°	3855.0	4128.3	4939.4	5750.5	5461.6	4561.0	3624.2
77.5°	2734.7	2917.7	3718.6	4519.8	4048.7	3036.0	2438.8
80°	1990.8	1934.7	2381.1	2827.5	2749.2	2008.1	1566.2
82.5°	1532.8	1396.0	1606.2	1816.4	1804.9	1393.5	1149.1
85°	1168.1	1113.3	1299.1	1485.0	1325.9	943.9	730.4
87.5°	680.9	765.8	984.7	1203.9	903.5	286.5	141.8
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: P386953
 CATALOG NUMBER: GPC-SA2C-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.

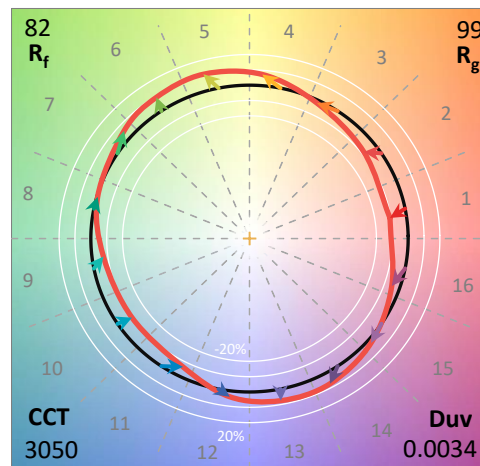
Test Information

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

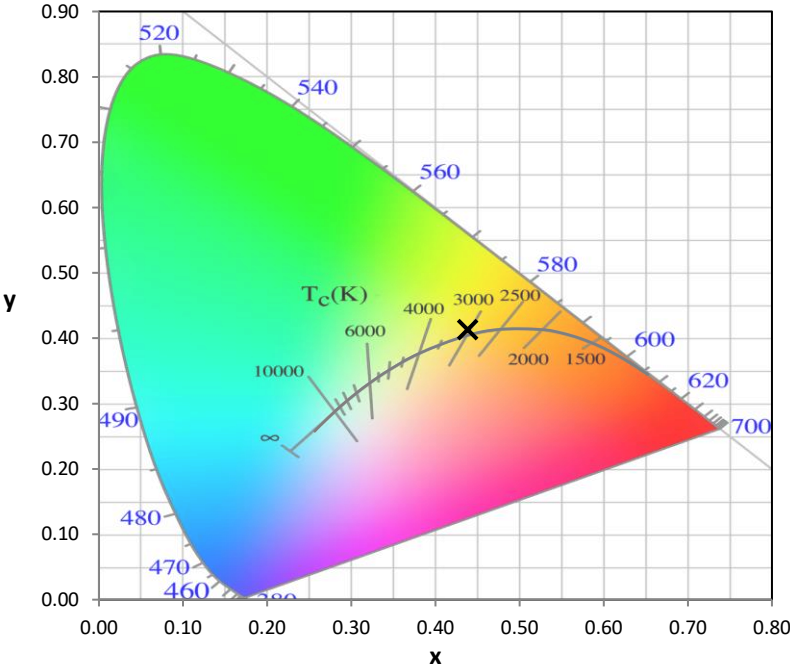
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

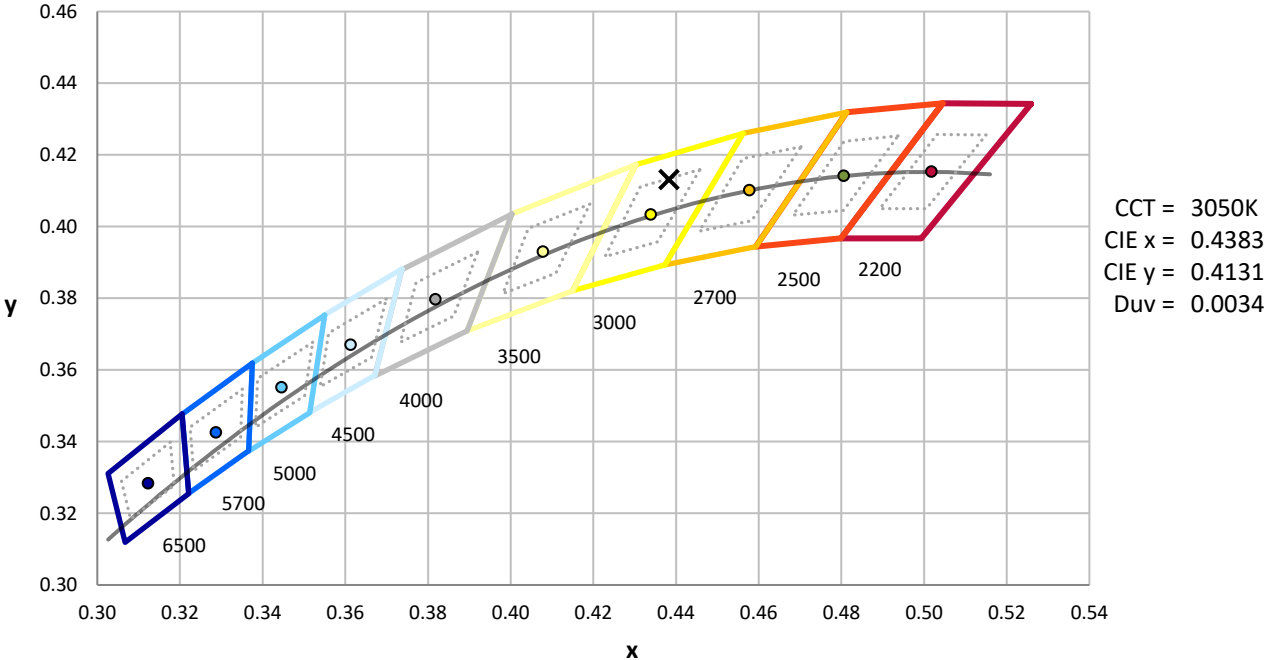
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



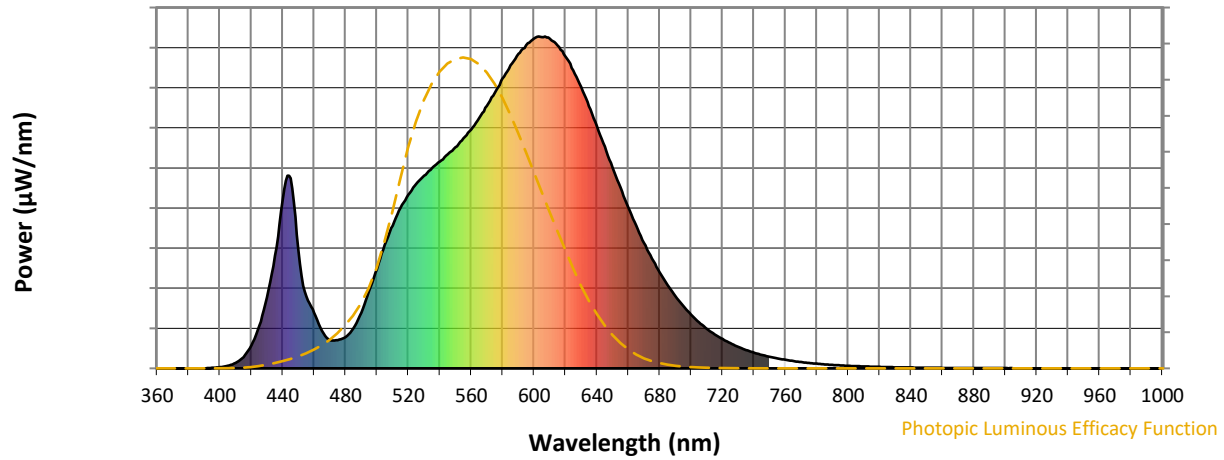
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

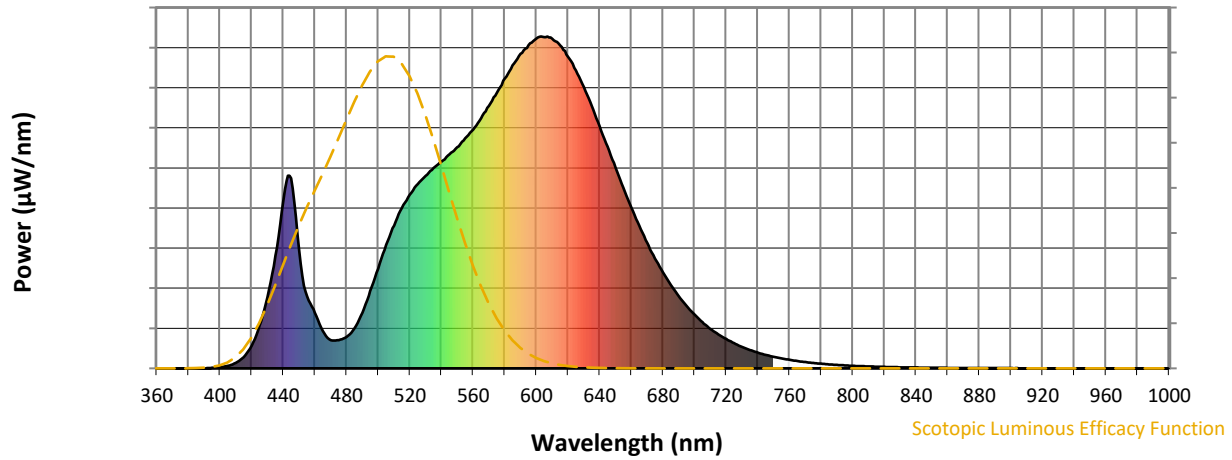


Photopic Lumens: NR

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /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

Scotopic Flux vs. Wavelength



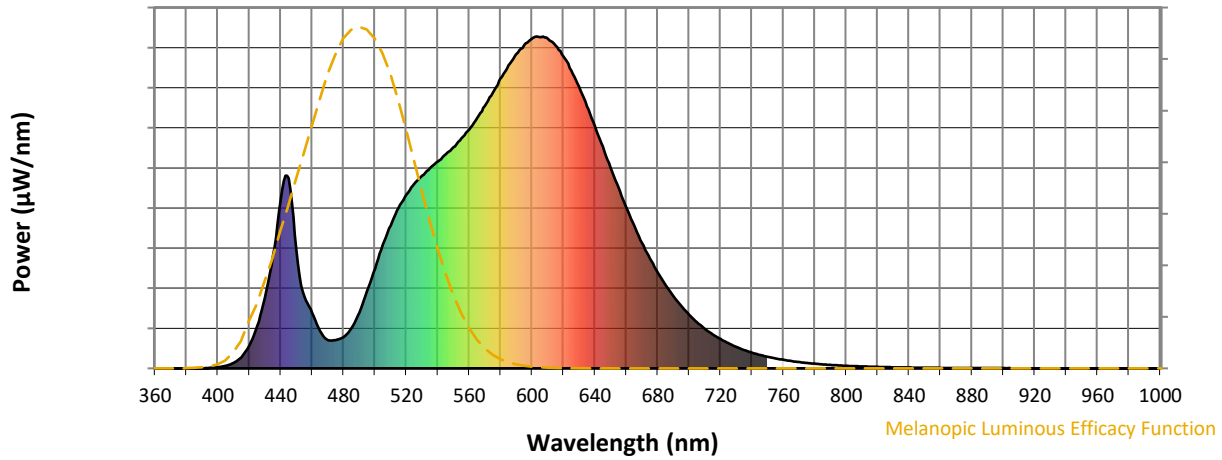
Scotopic Lumens: NR

S/P: 1.27

λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /nm	Lumens (ϕ /nm)	λ (nm)	Power W [^] /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



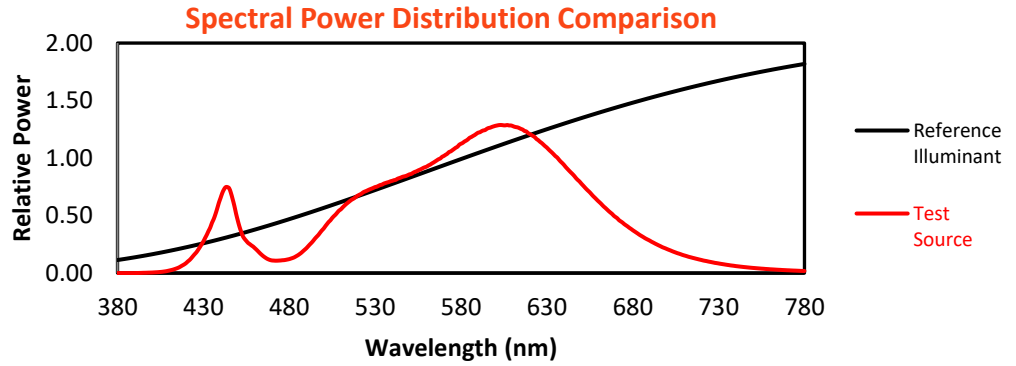
Melanopic Lumens: NR

M/P: 2.32

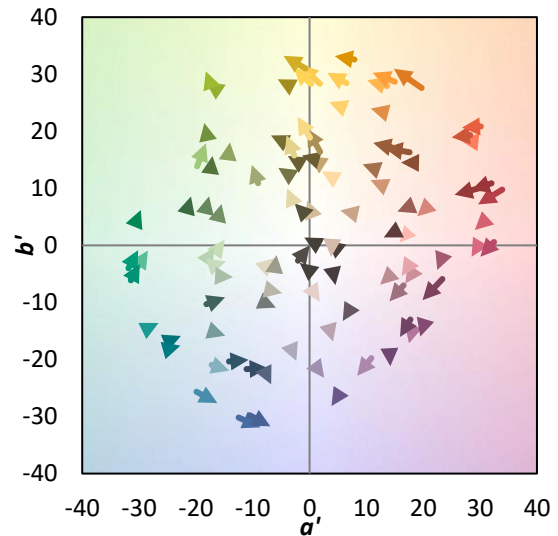
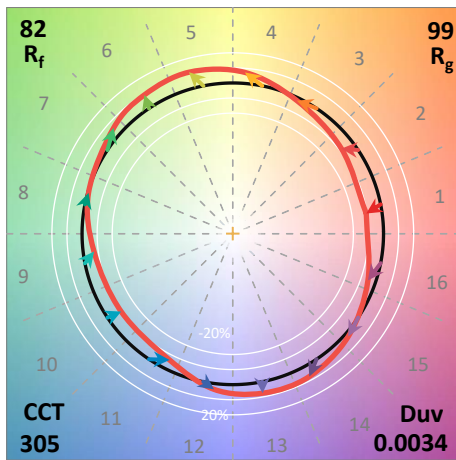
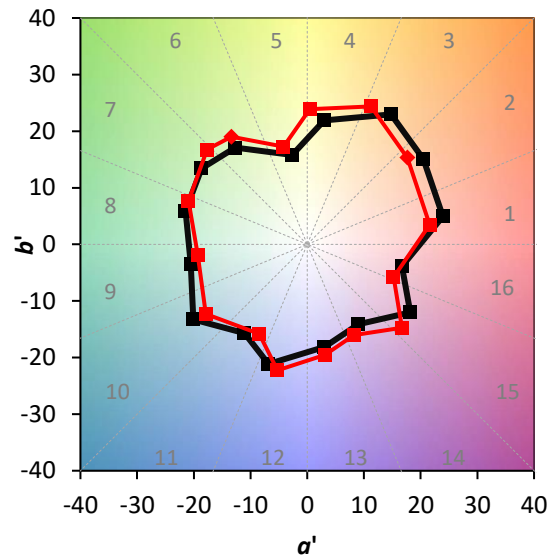
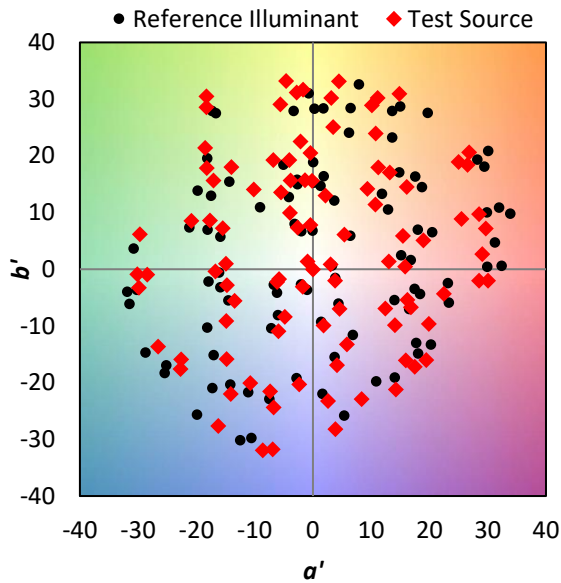
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300	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

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

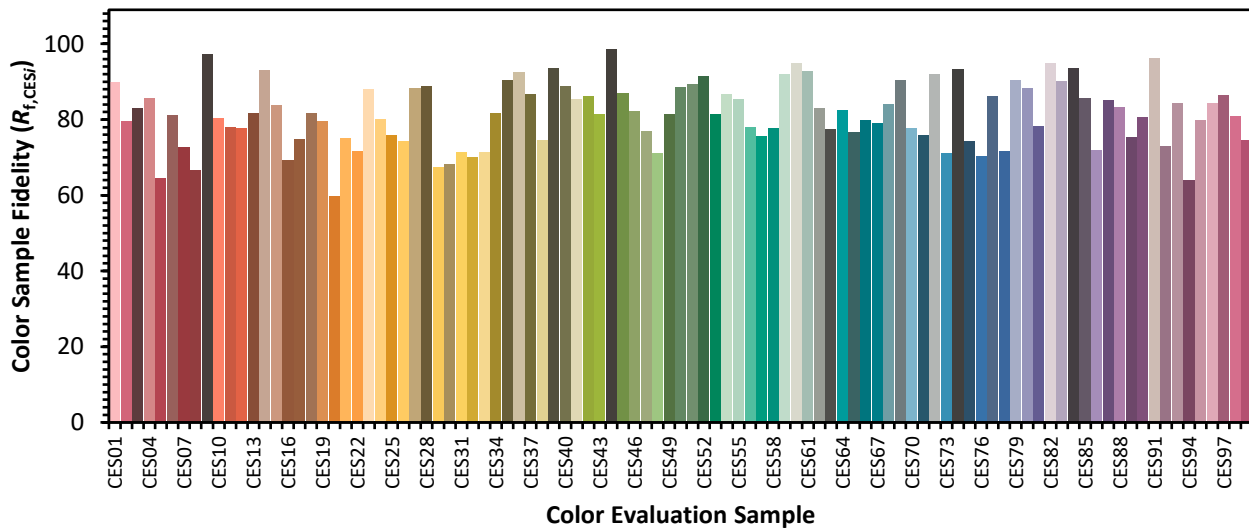


Color Vector Graphics

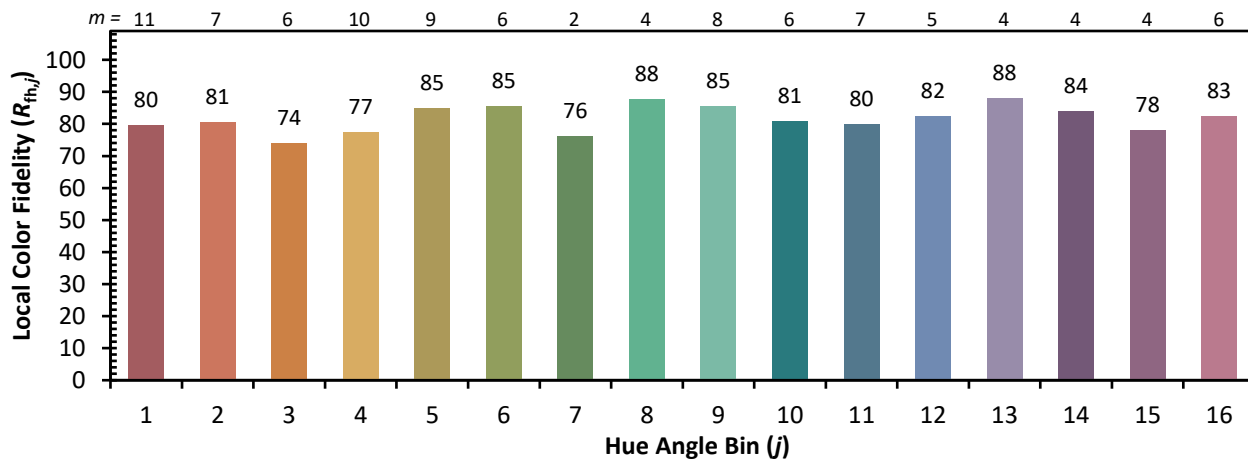
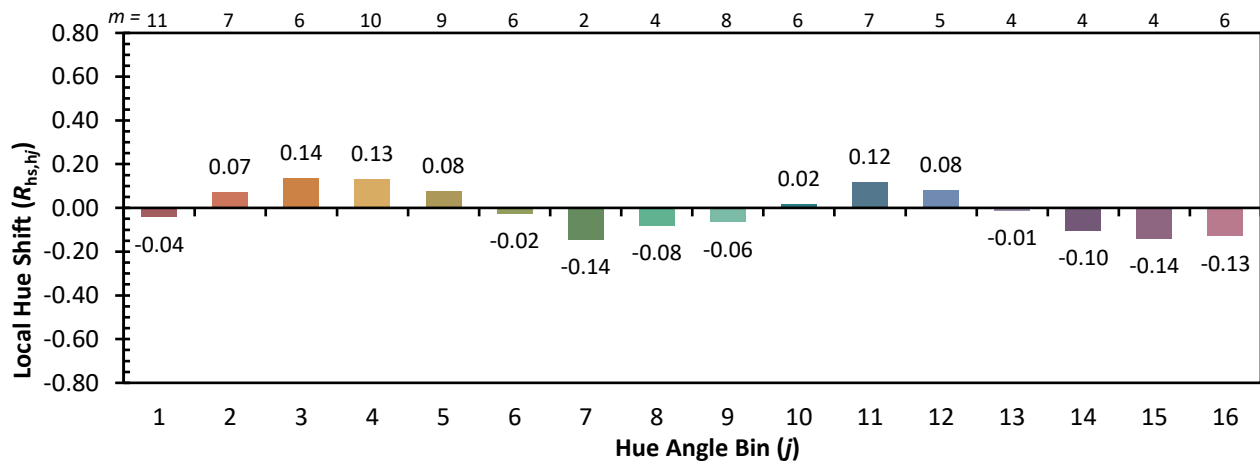
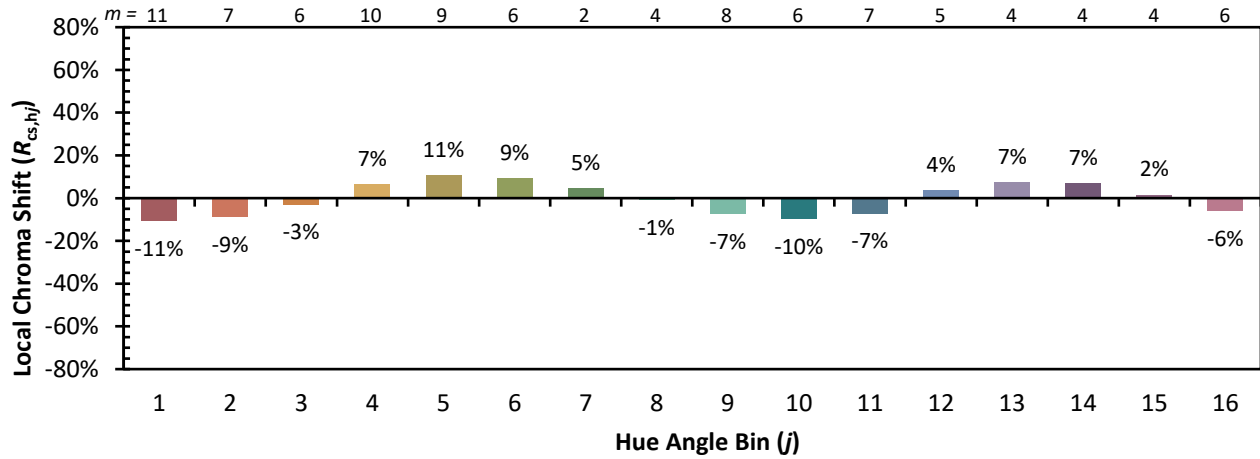


Individual Sample Fidelity Index ($R_{f,i}$)

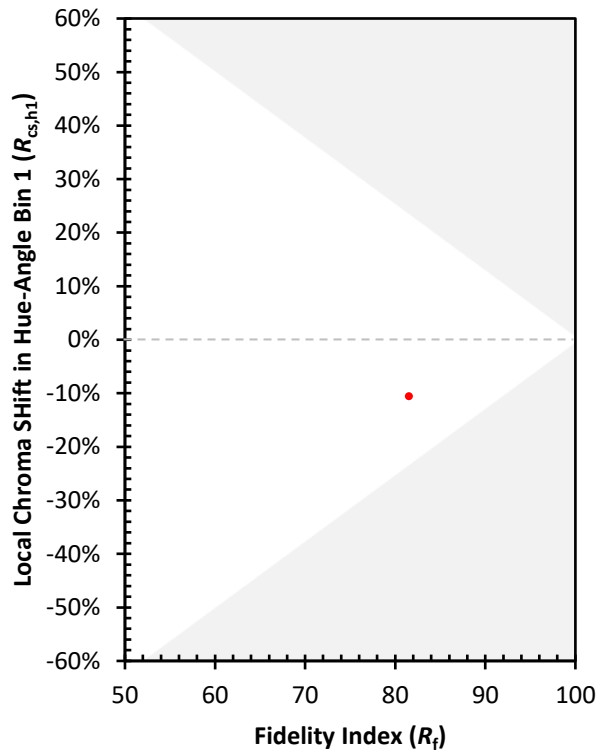
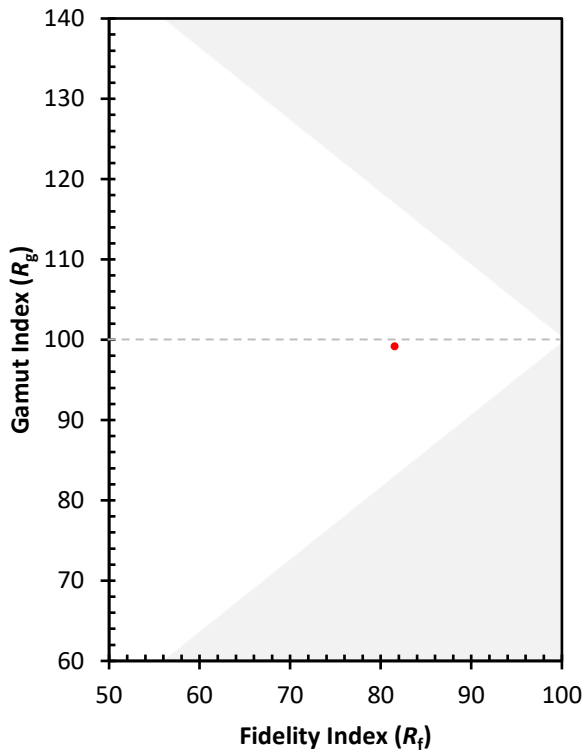
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82 = 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)