

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: P385609

Luminaire Tested: **GPC-SA1A-830-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385609
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-SA1A-830-U-SLR
Description: GALLEON PEDESTRIAN LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3475 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

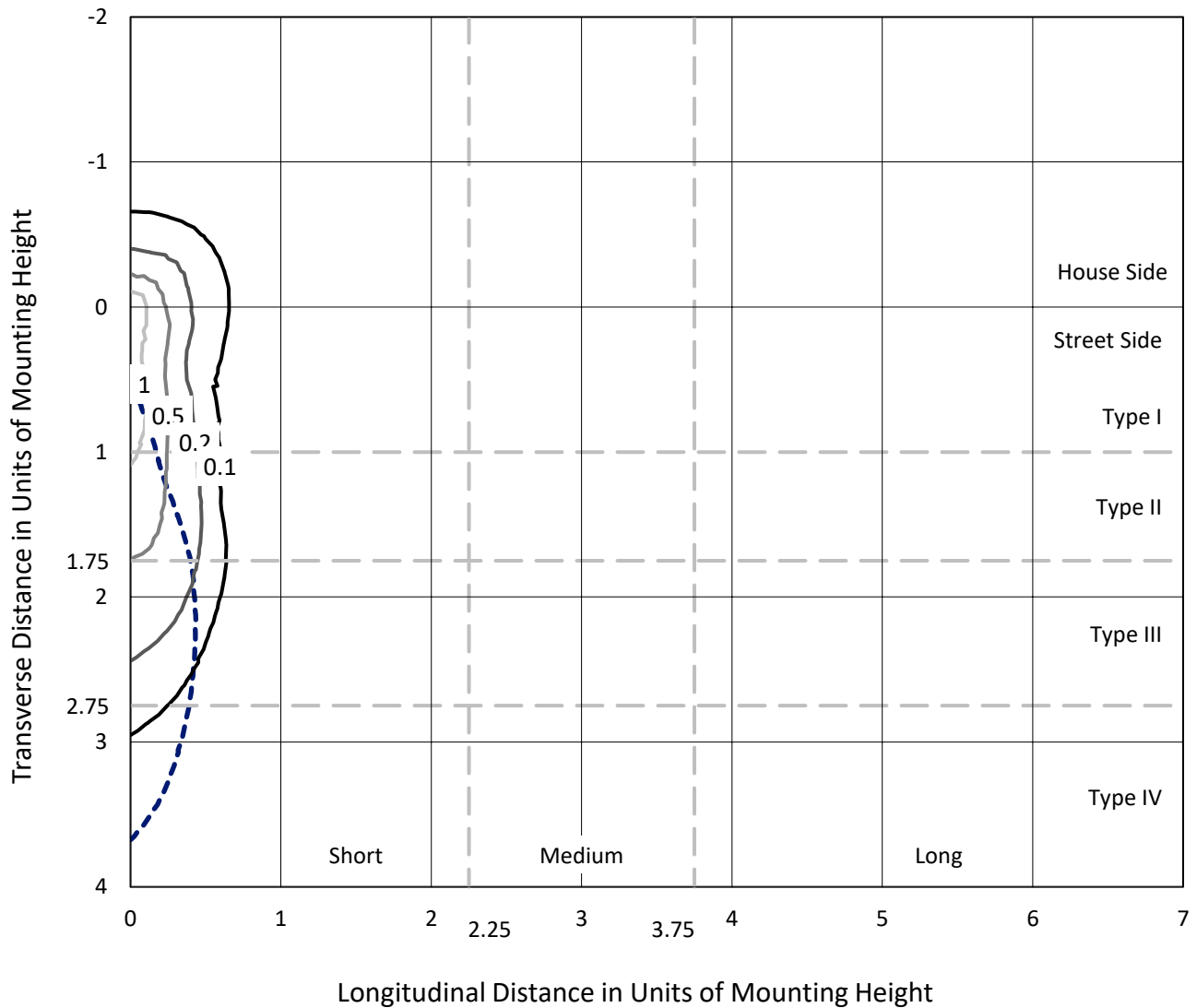
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P385609
 CATALOG NUMBER: GPC-SA1A-830-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

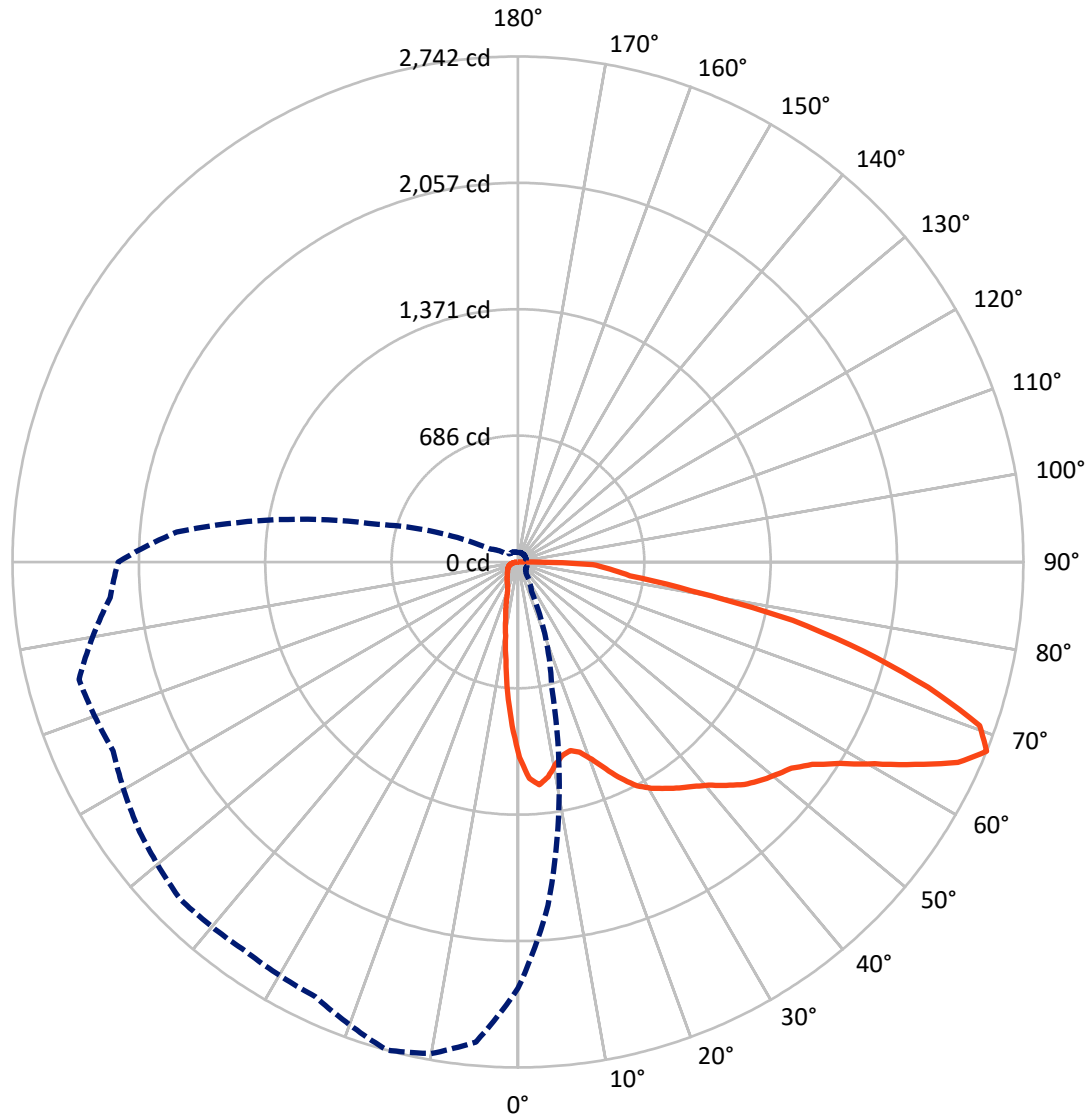
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P385609
CATALOG NUMBER: GPC-SA1A-830-U-SLR

Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P385609
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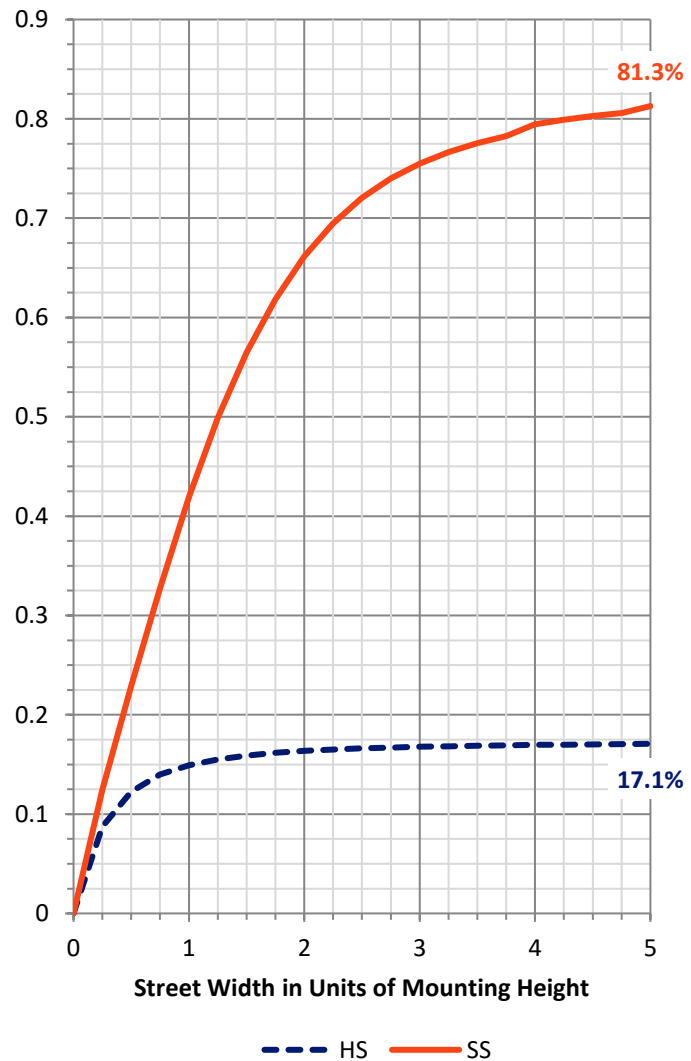
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	600.8	0.0	600.8
	% Fixture	17.3	0.0	17.3
Street Side	Lumens	2874.2	0.0	2874.2
	% Fixture	82.7	0.0	82.7
Total	Lumens	3475.0	0.0	3475.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.7	2.4
10°-20°	169.7	4.9
20°-30°	241.4	6.9
30°-40°	347.9	10.0
40°-50°	490.2	14.1
50°-60°	681.5	19.6
60°-70°	824.1	23.7
70°-80°	506.6	14.6
80°-90°	131.8	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°	3475.0	100.0
0°-180°	3475.0	100.0

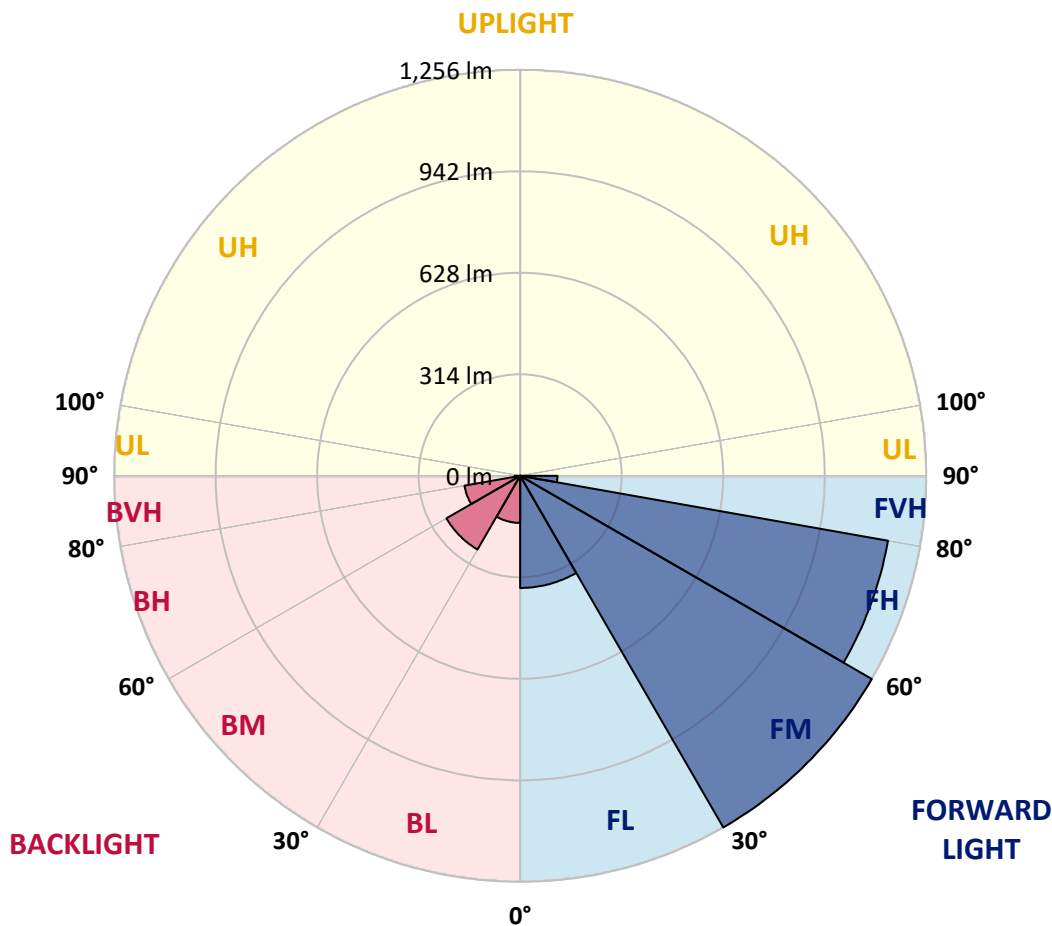


REPORT NUMBER: P385609
 CATALOG NUMBER: GPC-SA1A-830-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.0	10.0			
FM (30°-60°)	1256.3	36.2			
FH (60°-80°)	1155.7	33.3			G1/1800
FVH (80°-90°)	115.3	3.3			G2/225
BL (0°-30°)	145.9	4.2	B1/500		
BM (30°-60°)	263.3	7.6	B1/1000		
BH (60°-80°)	175.1	5.0	B1/500		G1/500
BVH (80°-90°)	16.5	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-G2
 Type IV Medium





REPORT NUMBER: P385609

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	1134.1	1124.1	1109.0	1093.8	1082.6	1071.2	1058.3	1045.3	1030.6	1015.8	1007.0
5°	1115.4	1087.6	1051.5	1015.3	991.4	967.5	940.4	913.4	886.5	859.7	845.3
7.5°	1030.9	989.2	942.3	895.3	860.6	825.7	788.2	750.5	717.2	683.7	663.0
10°	947.8	897.8	843.9	789.8	745.4	700.9	663.3	625.5	600.3	575.2	556.2
12.5°	888.2	832.8	773.4	714.0	669.5	625.1	601.2	577.3	556.4	535.6	513.6
15°	864.6	801.9	741.2	680.4	639.9	599.5	573.0	546.3	518.4	490.3	463.3
17.5°	885.4	812.1	746.1	680.1	627.2	574.2	537.1	499.9	463.1	426.3	395.0
20°	950.5	856.8	770.5	684.1	613.7	543.2	493.5	443.6	396.4	349.1	313.7
22.5°	1041.7	917.8	805.1	692.5	601.4	510.3	447.9	385.4	329.6	273.7	239.0
25°	1152.6	998.7	855.0	711.2	596.4	481.5	404.9	328.2	269.3	210.2	185.5
27.5°	1269.4	1095.1	917.0	738.7	597.3	455.8	368.6	281.2	228.1	175.1	158.1
30°	1366.8	1205.3	989.2	773.0	600.5	427.9	334.4	240.9	197.1	153.4	142.4
32.5°	1455.9	1282.1	1043.7	805.1	604.1	402.9	308.0	213.0	177.3	141.4	132.4
35°	1547.9	1350.3	1081.7	813.0	597.8	382.5	290.0	197.4	164.5	131.4	123.8
37.5°	1649.2	1424.1	1118.4	812.6	587.3	361.9	275.9	189.8	156.2	122.4	116.8
40°	1762.1	1505.6	1158.2	810.7	577.7	344.6	265.5	186.3	151.6	116.7	112.0
42.5°	1872.6	1583.4	1195.1	806.8	569.9	332.9	255.2	177.6	147.4	117.1	110.5
45°	1955.5	1651.4	1227.2	802.9	564.1	325.2	247.2	169.1	143.5	118.0	109.5
47.5°	2018.4	1719.6	1262.8	805.8	563.5	321.2	241.5	161.7	136.2	110.5	107.0
50°	2098.5	1801.6	1314.6	827.6	571.2	314.7	234.8	154.8	129.1	103.4	108.1
52.5°	2198.1	1918.6	1394.9	871.1	587.1	303.2	224.2	145.3	120.5	95.4	102.8
55°	2344.4	2068.5	1497.6	926.6	606.5	286.2	208.3	130.2	109.1	87.8	94.3
57.5°	2475.7	2219.9	1596.1	972.1	618.5	264.8	188.1	111.4	96.3	81.1	84.9
60°	2534.2	2298.0	1642.2	986.3	611.3	236.3	165.5	94.5	85.0	75.6	74.9
62.5°	2511.4	2248.4	1596.8	945.2	576.0	206.9	145.5	84.1	77.0	69.7	68.2
65°	2444.7	2092.5	1469.5	846.5	516.4	186.3	132.8	79.3	71.4	63.5	61.8
67.5°	2313.3	1870.6	1289.2	707.7	440.7	173.7	125.6	77.5	67.9	58.2	56.3
70°	2077.4	1603.6	1081.5	559.2	362.6	165.9	120.9	75.9	64.2	52.4	50.6
72.5°	1706.3	1285.7	863.6	441.4	303.2	164.9	120.3	75.7	61.1	46.5	44.9
75°	1221.7	976.6	659.2	341.8	248.3	154.8	114.2	73.6	57.0	40.2	38.6
77.5°	822.1	675.9	458.2	240.4	184.2	128.1	96.0	63.9	48.8	33.6	32.1
80°	528.0	467.8	307.0	146.3	119.5	92.7	68.6	44.6	35.6	26.4	25.1
82.5°	387.4	348.2	213.4	78.6	66.4	54.0	42.0	29.9	24.3	18.8	18.2
85°	246.2	271.5	157.1	42.8	35.0	27.2	22.5	17.8	14.0	10.3	10.3
87.5°	47.8	66.1	43.5	20.7	15.1	9.6	8.2	6.7	3.8	0.7	0.8
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



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 CATALOG NUMBER: GPC-SA1A-830-U-SLR

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°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	998.1	988.5	978.9	968.1	957.1	947.0	936.7	925.4	927.5	918.9	910.3
5°	830.8	815.5	800.1	786.8	773.4	761.9	750.2	739.8	748.9	742.7	736.6
7.5°	642.2	623.3	604.2	588.2	572.3	559.9	547.4	538.8	547.7	546.6	545.5
10°	537.1	518.8	500.3	482.7	465.0	450.0	434.9	422.1	419.9	413.5	406.9
12.5°	491.6	466.4	441.1	422.6	404.2	386.2	368.3	353.3	346.5	335.9	325.2
15°	436.4	406.7	376.9	356.0	334.8	317.5	300.0	287.0	282.7	274.5	266.3
17.5°	363.7	331.2	298.7	277.5	256.1	242.2	228.1	219.5	219.5	217.2	214.8
20°	278.3	249.2	220.2	204.0	187.7	180.3	172.8	169.2	170.3	170.5	170.5
22.5°	204.1	186.3	168.5	162.0	155.3	152.7	150.0	148.5	149.1	149.2	149.4
25°	160.7	153.9	147.0	143.7	140.2	138.5	136.9	136.3	137.5	137.7	137.7
27.5°	141.2	137.0	132.7	130.6	128.4	127.7	127.0	126.0	127.3	127.3	127.1
30°	131.3	126.8	122.4	119.8	117.1	117.4	117.5	117.3	118.1	118.7	119.1
32.5°	123.2	118.9	114.6	112.0	109.2	108.8	108.4	108.1	109.9	110.9	111.8
35°	116.0	111.3	106.6	104.1	101.6	100.6	99.6	98.9	100.6	101.8	103.1
37.5°	111.1	106.3	101.3	98.9	96.4	95.2	93.9	93.1	93.8	94.3	94.9
40°	107.3	102.3	97.1	94.3	91.6	90.3	89.1	88.4	88.8	88.9	89.1
42.5°	103.6	98.8	93.9	90.9	87.7	86.1	84.6	83.8	84.1	84.3	84.5
45°	101.0	96.1	91.1	87.5	83.8	82.1	80.4	79.5	79.6	79.6	79.6
47.5°	103.5	96.4	89.2	85.0	80.7	78.8	76.8	75.9	75.6	75.3	75.0
50°	112.7	100.6	88.4	83.1	77.7	75.6	73.4	72.2	71.6	71.3	71.0
52.5°	110.0	99.6	89.1	82.2	75.3	72.8	70.3	68.5	67.8	67.4	67.0
55°	100.7	94.2	87.5	79.3	71.1	68.9	66.5	65.3	64.0	63.8	63.5
57.5°	88.5	85.9	83.2	74.9	66.5	64.5	62.2	61.4	60.3	60.3	60.2
60°	74.1	77.9	81.8	72.2	62.5	60.2	57.8	57.1	56.7	56.5	56.4
62.5°	66.5	72.9	79.2	69.1	58.8	56.3	53.8	52.9	52.8	52.9	52.9
65°	60.2	62.1	64.0	59.3	54.6	52.1	49.5	48.6	48.9	49.3	49.7
67.5°	54.3	53.9	53.5	51.8	50.0	47.9	45.7	44.9	45.0	45.6	46.1
70°	48.8	48.2	47.5	46.3	45.0	43.2	41.4	40.8	40.7	41.4	42.0
72.5°	43.2	42.5	41.7	40.7	39.6	38.1	36.5	36.1	36.3	36.7	37.1
75°	37.1	36.5	35.8	35.0	34.0	32.6	31.3	31.0	31.3	31.7	32.1
77.5°	30.4	30.3	30.0	29.3	28.6	27.1	25.4	25.3	25.7	26.1	26.4
80°	23.8	23.9	24.0	23.5	22.9	21.3	19.5	19.3	19.7	20.1	20.6
82.5°	17.5	17.9	18.2	17.5	16.8	14.9	12.9	12.6	14.0	14.4	14.9
85°	10.1	10.7	11.3	10.7	10.1	8.2	6.3	6.1	7.4	8.1	8.8
87.5°	0.8	1.1	1.4	1.3	1.1	0.6	0.0	0.0	0.1	0.7	1.3
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



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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: P385609
 CATALOG NUMBER: GPC-SA1A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	904.9	899.5	897.8	896.1	890.0	883.8	890.2	896.4	899.0	901.7	894.9
5°	735.8	734.8	734.8	734.7	729.1	723.4	727.7	731.9	722.6	713.3	712.3
7.5°	551.4	557.4	562.3	567.0	565.2	563.4	567.4	571.4	559.6	547.7	541.8
10°	408.3	409.6	414.9	420.1	421.4	422.5	427.5	432.4	423.2	414.0	410.0
12.5°	318.6	311.9	312.6	313.2	315.7	318.0	323.3	328.4	324.7	320.8	321.2
15°	258.0	249.5	246.1	242.4	245.2	248.0	251.7	255.4	255.5	255.5	259.1
17.5°	210.6	206.3	202.8	199.2	203.0	206.6	207.0	207.4	207.6	207.7	207.4
20°	172.6	174.6	173.5	172.4	173.8	175.1	176.2	177.1	175.9	174.5	171.0
22.5°	151.3	153.1	154.5	155.7	158.1	160.3	159.2	158.0	155.5	152.8	150.2
25°	138.9	140.2	141.6	143.0	144.9	146.7	144.8	142.8	141.0	139.2	137.4
27.5°	128.5	129.8	131.0	132.1	133.9	135.6	133.8	132.0	130.5	128.9	127.5
30°	120.0	120.9	121.8	122.8	124.5	126.0	124.5	122.8	121.7	120.5	119.5
32.5°	112.8	113.6	114.1	114.5	116.0	117.5	116.4	115.3	114.3	113.4	112.7
35°	104.9	106.6	106.8	107.1	108.6	110.2	109.5	108.6	107.5	106.4	105.2
37.5°	96.8	98.8	99.9	100.9	102.4	103.9	103.2	102.5	101.0	99.5	97.3
40°	90.0	90.9	92.9	94.9	97.4	99.8	98.4	96.8	94.5	92.1	91.0
42.5°	84.3	84.2	86.1	88.1	91.8	95.4	92.9	90.4	88.2	86.0	85.7
45°	79.3	78.9	79.9	80.9	84.9	88.8	86.3	83.6	82.4	81.1	81.1
47.5°	74.9	74.6	75.3	75.9	78.4	80.7	79.5	78.2	77.5	76.8	77.0
50°	70.9	70.6	71.3	71.8	72.8	73.6	73.9	74.1	73.6	73.2	73.5
52.5°	67.1	67.1	67.4	67.5	68.8	70.0	70.0	69.9	69.9	69.9	70.2
55°	63.9	64.2	64.2	64.2	66.1	67.9	67.4	66.8	67.0	67.0	67.2
57.5°	60.7	61.1	61.4	61.7	63.6	65.6	65.0	64.5	64.5	64.5	64.6
60°	57.1	57.7	58.2	58.8	60.7	62.7	62.1	61.4	61.5	61.7	61.8
62.5°	53.6	54.2	54.7	55.3	57.2	59.2	58.6	57.9	58.4	58.6	58.6
65°	50.3	50.7	51.3	51.8	53.6	55.4	54.9	54.3	54.9	55.3	55.6
67.5°	46.5	46.8	47.4	47.9	49.7	51.5	51.0	50.3	51.0	51.5	52.1
70°	42.2	42.5	43.2	43.8	45.6	47.4	46.7	46.0	46.7	47.4	47.9
72.5°	37.5	37.8	38.5	39.0	41.1	43.2	42.4	41.5	42.4	43.2	43.5
75°	32.4	32.6	33.5	34.2	36.3	38.3	37.7	36.8	37.5	38.2	38.3
77.5°	26.8	27.2	28.3	29.5	31.1	32.8	32.4	32.0	32.4	32.8	32.8
80°	21.0	21.4	22.8	24.0	25.0	26.0	26.1	26.3	26.4	26.5	26.4
82.5°	15.6	16.1	17.4	18.6	18.6	18.6	19.7	20.7	20.7	20.6	20.4
85°	9.6	10.3	11.4	12.5	11.8	11.1	12.9	14.6	14.6	14.4	14.2
87.5°	1.9	2.6	3.8	4.7	4.0	3.3	5.1	6.9	7.1	7.1	6.8
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: P385609
 CATALOG NUMBER: GPC-SA1A-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: P385609
 CATALOG NUMBER: GPC-SA1A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	887.9	898.8	909.5	912.2	916.4	918.2	919.9	933.5	947.0	962.8	978.7
5°	711.2	719.3	727.3	728.6	732.9	735.1	737.3	753.9	770.3	792.3	814.4
7.5°	536.0	538.0	539.9	539.6	543.2	548.1	552.8	570.5	588.0	611.7	635.3
10°	406.0	410.4	414.7	418.7	426.7	435.8	444.9	462.9	481.0	504.5	527.8
12.5°	321.6	326.8	331.8	336.2	345.4	357.6	369.7	391.4	413.1	441.1	469.0
15°	262.6	262.2	261.8	264.8	272.9	286.2	299.4	322.3	345.3	376.1	406.8
17.5°	207.2	205.1	203.0	205.3	212.8	223.8	234.7	254.1	273.4	303.3	333.2
20°	167.6	166.2	164.8	167.0	171.7	176.3	180.9	194.9	208.8	233.1	257.3
22.5°	147.4	147.3	147.0	148.2	150.5	152.8	155.1	161.9	168.5	184.2	199.8
25°	135.6	135.5	135.3	135.9	137.7	139.5	141.3	145.7	150.2	157.7	165.2
27.5°	126.2	125.9	125.6	125.7	126.2	128.9	131.6	133.7	135.6	140.7	145.7
30°	118.5	118.4	118.2	118.2	117.8	118.8	119.8	123.0	126.0	131.3	136.6
32.5°	112.0	111.3	110.6	109.1	108.1	109.5	110.9	114.2	117.5	122.4	127.3
35°	103.8	102.0	100.0	99.2	99.3	100.7	102.1	105.5	108.6	113.9	119.1
37.5°	94.9	94.3	93.6	93.5	93.9	95.3	96.7	99.6	102.4	107.7	112.8
40°	89.9	89.6	89.3	89.1	89.3	90.7	92.1	94.9	97.5	102.7	107.7
42.5°	85.4	85.3	85.2	85.2	85.3	86.8	88.4	91.1	93.8	98.4	103.0
45°	81.1	81.3	81.3	81.6	82.0	83.5	84.9	87.9	91.0	95.4	99.9
47.5°	77.1	77.5	77.8	78.5	78.9	80.6	82.1	85.4	88.8	94.3	99.8
50°	73.6	74.1	74.3	74.9	76.0	77.9	79.9	83.9	87.8	97.1	106.3
52.5°	70.4	70.9	71.3	71.8	73.2	75.4	77.7	82.7	87.5	98.4	109.2
55°	67.5	67.9	68.2	69.1	70.4	72.4	74.2	80.3	86.4	94.3	102.3
57.5°	64.7	65.2	65.4	66.0	66.7	68.8	70.7	77.2	83.8	89.3	94.8
60°	61.8	62.1	62.2	62.2	62.8	65.2	67.5	75.9	84.1	83.1	82.0
62.5°	58.6	58.9	59.0	58.6	59.3	61.8	64.3	75.2	86.0	79.3	72.7
65°	55.7	55.6	55.4	55.0	55.9	58.4	60.7	66.1	71.6	68.9	66.3
67.5°	52.5	52.1	51.7	51.1	52.0	54.2	56.3	58.1	59.9	60.2	60.4
70°	48.5	47.9	47.4	47.2	47.7	49.5	51.3	52.5	53.6	54.2	54.6
72.5°	43.8	43.3	42.9	42.7	42.8	44.3	45.7	46.8	47.9	48.3	48.6
75°	38.5	38.5	38.3	37.5	37.5	38.8	39.9	40.8	41.8	42.4	42.9
77.5°	32.8	32.9	32.9	31.8	31.7	32.9	34.0	34.9	35.6	36.1	36.5
80°	26.3	26.0	25.7	25.0	24.7	26.3	27.6	28.3	28.9	29.0	29.0
82.5°	20.1	19.6	18.9	17.4	17.5	19.2	20.7	21.3	21.8	21.8	21.8
85°	13.8	12.6	11.4	10.1	10.3	12.1	13.8	14.3	14.9	15.1	15.3
87.5°	6.5	5.4	4.2	3.2	3.2	4.7	6.1	6.4	6.7	7.2	7.8
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: P385609
 CATALOG NUMBER: GPC-SA1A-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: P385609

CATALOG NUMBER: GPC-SA1A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	990.7	1002.7	1015.1	1027.4	1041.6	1055.8	1072.3	1088.7	1102.7	1116.8	1128.4
5°	833.5	852.5	874.9	897.2	925.7	954.2	989.1	1023.8	1054.8	1085.8	1121.8
7.5°	660.2	684.9	714.1	743.3	780.1	816.9	862.1	907.2	951.0	994.6	1049.9
10°	553.8	579.8	608.5	637.2	674.7	712.0	759.8	807.5	856.7	905.7	968.2
12.5°	497.9	526.7	552.0	577.3	607.7	638.0	684.3	730.5	788.3	846.0	906.1
15°	438.3	469.7	500.0	530.3	563.5	596.6	641.6	686.6	749.8	813.0	882.2
17.5°	366.2	399.3	436.3	473.1	516.4	559.6	617.3	674.9	749.8	824.6	906.1
20°	291.1	324.8	369.0	413.2	467.1	520.9	595.6	670.4	771.2	872.0	976.0
22.5°	229.7	259.4	307.6	355.7	417.9	480.2	576.0	671.7	803.6	935.3	1075.8
25°	186.2	207.2	254.5	301.8	373.6	445.4	564.1	682.6	850.7	1018.7	1192.9
27.5°	159.5	173.3	217.4	261.5	340.0	418.3	559.2	700.0	910.4	1120.9	1320.3
30°	146.2	155.7	193.1	230.4	310.1	389.9	553.4	716.9	968.0	1218.9	1419.9
32.5°	135.0	142.7	174.6	206.5	284.3	362.1	542.1	722.0	1008.1	1294.2	1504.2
35°	125.6	132.0	159.8	187.6	264.0	340.4	523.2	706.1	1033.3	1360.4	1592.1
37.5°	118.0	123.0	148.7	174.4	246.5	318.6	501.7	684.8	1055.6	1426.4	1690.8
40°	112.0	116.3	140.3	164.4	229.8	295.2	483.2	671.1	1086.5	1501.9	1795.2
42.5°	108.6	114.2	133.1	151.9	214.0	276.1	468.3	660.6	1115.1	1569.4	1886.5
45°	107.8	115.7	129.3	143.0	202.2	261.3	455.2	648.8	1133.6	1618.3	1955.2
47.5°	106.4	113.0	126.4	139.9	196.3	252.6	448.1	643.4	1152.0	1660.5	2012.3
50°	107.3	108.1	124.1	139.9	195.5	251.1	456.1	661.2	1192.1	1722.8	2077.6
52.5°	105.7	102.1	119.6	137.1	195.3	253.6	479.3	705.1	1266.4	1827.5	2148.3
55°	97.7	92.9	111.3	129.6	192.4	255.1	507.0	758.7	1366.1	1973.4	2275.5
57.5°	90.6	86.3	101.8	117.3	183.5	249.8	535.5	821.0	1471.6	2122.1	2418.7
60°	81.1	80.2	91.3	102.4	169.8	237.0	558.9	880.7	1542.5	2204.1	2473.9
62.5°	73.4	73.9	82.1	90.3	152.6	214.7	566.7	918.6	1540.5	2162.4	2418.3
65°	67.4	68.4	76.4	84.5	137.8	191.2	541.2	891.0	1462.6	2034.0	2308.4
67.5°	61.5	62.7	72.2	81.7	124.8	167.7	477.2	786.6	1322.4	1858.0	2168.6
70°	56.0	57.4	67.8	78.2	115.3	152.3	394.9	637.4	1146.9	1656.2	2006.8
72.5°	50.0	51.4	62.5	73.6	109.3	144.9	321.9	498.8	930.7	1362.5	1716.5
75°	43.9	44.9	57.0	68.9	101.1	133.4	252.6	371.7	712.3	1053.0	1296.5
77.5°	37.8	39.0	49.2	59.2	85.9	112.4	190.3	268.3	522.7	776.9	901.7
80°	30.1	31.3	38.5	45.6	66.3	86.8	130.9	174.9	359.7	544.5	614.8
82.5°	23.1	24.3	29.2	33.9	47.2	60.6	79.3	98.1	239.0	379.7	385.5
85°	15.8	16.3	19.7	23.1	29.2	35.3	45.4	55.6	158.1	260.6	217.2
87.5°	7.9	7.9	10.3	12.6	15.7	18.8	24.0	29.2	50.6	72.0	41.4
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: P385609
 CATALOG NUMBER: GPC-SA1A-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: P385609

CATALOG NUMBER: GPC-SA1A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	1143.3	1153.4	1163.7	1171.5	1179.4	1190.8	1202.2	1204.3	1206.5	1202.1	1197.6
5°	1158.0	1188.7	1219.6	1248.1	1276.5	1293.6	1310.7	1314.2	1317.7	1307.0	1296.1
7.5°	1103.4	1156.9	1210.4	1259.4	1308.5	1338.2	1368.1	1374.8	1381.6	1364.1	1346.6
10°	1030.5	1096.2	1161.9	1226.5	1291.1	1334.3	1377.5	1386.2	1394.8	1373.0	1351.1
12.5°	974.1	1044.2	1114.4	1182.5	1250.7	1295.4	1340.2	1350.9	1361.6	1345.7	1329.7
15°	956.7	1022.7	1088.7	1148.0	1207.5	1244.0	1280.7	1285.0	1289.5	1287.0	1284.5
17.5°	988.2	1047.8	1107.6	1139.8	1172.2	1186.8	1201.5	1206.2	1211.1	1217.3	1223.7
20°	1064.7	1106.6	1148.7	1147.3	1145.8	1138.7	1131.5	1130.2	1129.0	1146.9	1165.0
22.5°	1178.7	1195.4	1212.2	1173.2	1134.1	1110.4	1086.5	1081.7	1076.9	1095.9	1115.1
25°	1302.5	1299.5	1296.3	1221.9	1147.5	1102.2	1056.9	1051.6	1046.3	1062.6	1079.0
27.5°	1425.1	1405.0	1385.0	1284.0	1183.0	1117.3	1051.6	1046.3	1041.0	1055.5	1069.9
30°	1514.9	1482.9	1450.8	1336.4	1222.1	1144.0	1065.9	1057.3	1048.5	1066.3	1084.1
32.5°	1585.1	1542.0	1499.0	1378.9	1258.9	1174.4	1089.9	1076.5	1063.0	1086.7	1110.5
35°	1655.1	1594.6	1533.8	1416.9	1299.7	1210.4	1120.9	1104.4	1087.9	1120.5	1153.2
37.5°	1743.2	1656.2	1569.1	1459.5	1349.9	1264.3	1178.6	1161.6	1144.7	1186.2	1227.9
40°	1838.8	1722.8	1606.8	1506.2	1405.6	1338.9	1272.1	1256.0	1239.7	1290.3	1340.9
42.5°	1918.3	1784.8	1651.2	1562.5	1473.5	1426.6	1379.5	1379.3	1379.1	1430.3	1481.6
45°	1982.9	1836.4	1689.9	1617.3	1544.7	1520.2	1495.8	1515.4	1535.0	1581.2	1627.6
47.5°	2031.1	1879.8	1728.3	1680.1	1631.9	1635.5	1639.2	1679.0	1718.9	1748.6	1778.5
50°	2062.5	1919.1	1775.6	1760.7	1745.9	1778.2	1810.7	1856.4	1902.3	1922.6	1942.9
52.5°	2108.2	1972.5	1836.6	1853.3	1869.9	1936.1	2002.2	2048.5	2094.7	2102.2	2109.9
55°	2213.9	2070.5	1927.0	1959.0	1991.1	2088.1	2185.2	2221.3	2257.4	2260.2	2263.0
57.5°	2364.1	2208.0	2051.8	2086.2	2120.7	2232.7	2344.8	2383.7	2422.7	2417.3	2411.8
60°	2476.5	2338.4	2200.2	2234.9	2269.6	2378.8	2488.0	2532.8	2577.7	2565.7	2553.8
62.5°	2483.5	2409.7	2335.8	2367.2	2398.7	2505.7	2612.7	2658.7	2704.6	2683.8	2663.0
65°	2373.0	2406.1	2439.1	2449.6	2460.0	2559.7	2659.6	2694.8	2730.1	2719.5	2708.9
67.5°	2220.9	2342.7	2464.7	2443.7	2422.7	2469.6	2516.4	2552.6	2588.9	2582.9	2576.8
70°	2069.0	2231.7	2394.4	2291.3	2188.1	2168.8	2149.5	2188.5	2227.7	2203.5	2179.2
72.5°	1810.5	1983.8	2157.4	1967.5	1777.5	1711.5	1645.5	1695.1	1744.7	1706.3	1667.6
75°	1421.2	1612.8	1804.5	1577.9	1351.3	1263.2	1175.1	1217.8	1260.4	1234.0	1207.5
77.5°	1058.0	1246.8	1435.6	1205.3	974.8	909.3	843.8	856.4	869.2	864.7	860.1
80°	717.6	849.2	980.9	827.5	674.1	679.1	684.3	678.3	672.2	681.1	689.9
82.5°	457.9	559.5	661.2	579.8	498.4	545.0	591.7	568.8	545.7	554.2	562.8
85°	261.3	360.7	460.2	428.9	397.5	424.7	452.1	416.5	381.0	396.5	412.2
87.5°	68.9	199.5	330.2	299.8	269.4	234.1	198.8	151.7	104.6	152.8	201.0
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: P385609
 CATALOG NUMBER: GPC-SA1A-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: P385609

CATALOG NUMBER: GPC-SA1A-830-U-SLR

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	1195.3	1192.9	1184.4	1175.8	1163.0	1152.5	1134.1
5°	1281.1	1266.1	1240.3	1214.3	1185.4	1152.2	1115.4
7.5°	1311.5	1276.4	1226.8	1177.1	1132.3	1079.8	1030.9
10°	1298.6	1246.0	1181.5	1116.9	1062.6	1002.1	947.8
12.5°	1273.9	1217.9	1146.9	1075.8	1013.9	949.1	888.2
15°	1239.9	1195.1	1128.6	1062.0	999.8	936.7	864.6
17.5°	1202.6	1181.4	1133.3	1085.1	1031.2	970.0	885.4
20°	1172.6	1180.4	1161.2	1142.0	1098.8	1045.5	950.5
22.5°	1152.3	1189.7	1204.4	1219.3	1193.3	1151.6	1041.7
25°	1140.9	1202.9	1252.2	1301.7	1290.1	1258.1	1152.6
27.5°	1145.9	1221.9	1298.5	1375.2	1385.9	1377.0	1269.4
30°	1160.9	1237.9	1331.1	1424.5	1467.2	1479.1	1366.8
32.5°	1185.9	1261.4	1362.9	1464.7	1529.1	1567.2	1455.9
35°	1223.7	1294.3	1400.2	1506.1	1589.4	1658.9	1547.9
37.5°	1288.6	1349.3	1447.0	1544.8	1652.9	1757.2	1649.2
40°	1383.7	1426.6	1509.1	1591.8	1727.8	1868.7	1762.1
42.5°	1503.6	1525.6	1591.1	1656.5	1806.0	1969.8	1872.6
45°	1633.5	1639.3	1680.4	1721.7	1868.0	2038.7	1955.5
47.5°	1758.5	1738.5	1754.9	1771.3	1915.5	2087.9	2018.4
50°	1887.2	1831.4	1822.8	1814.2	1963.0	2145.8	2098.5
52.5°	2018.0	1926.2	1892.2	1858.0	2019.7	2222.7	2198.1
55°	2146.1	2029.3	1983.4	1937.6	2106.4	2316.5	2344.4
57.5°	2279.4	2147.0	2104.4	2061.9	2233.8	2435.2	2475.7
60°	2422.7	2291.6	2257.6	2223.4	2392.2	2563.6	2534.2
62.5°	2558.8	2454.6	2436.6	2418.6	2552.4	2662.3	2511.4
65°	2649.6	2590.2	2606.8	2623.6	2673.5	2686.9	2444.7
67.5°	2588.9	2601.0	2671.4	2742.0	2707.7	2613.8	2313.3
70°	2251.6	2324.1	2491.0	2658.0	2581.8	2418.0	2077.4
72.5°	1749.0	1830.6	2078.3	2326.2	2256.0	2055.4	1706.3
75°	1299.5	1391.6	1665.0	1938.4	1841.0	1537.5	1221.7
77.5°	921.8	983.5	1253.5	1523.6	1364.8	1023.4	822.1
80°	671.1	652.2	802.6	953.1	926.7	676.9	528.0
82.5°	516.7	470.6	541.4	612.3	608.4	469.7	387.4
85°	393.7	375.3	437.9	500.6	447.0	318.2	246.2
87.5°	229.5	258.1	331.9	405.8	304.5	96.6	47.8
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: P385609
 CATALOG NUMBER: GPC-SA1A-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.

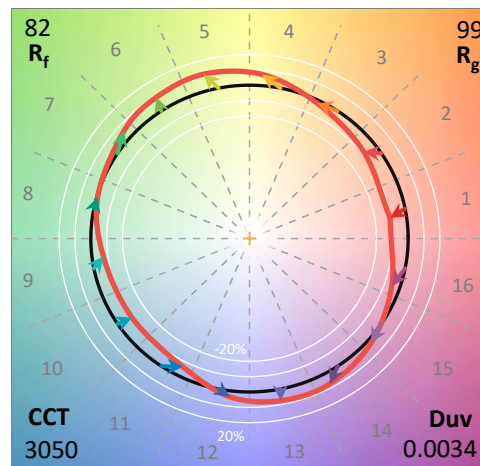
Test Information

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

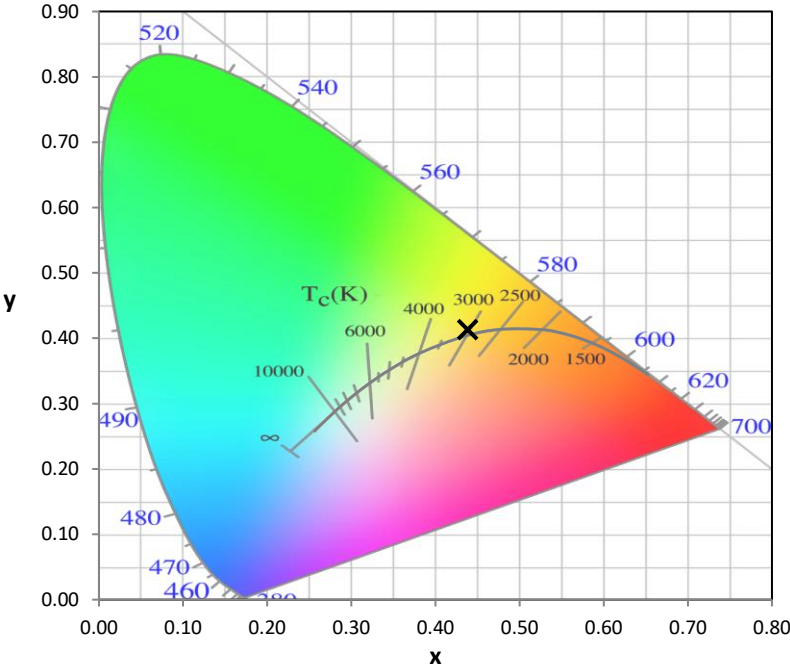
Stabilization Time: 20M
 Operation Time: 1H 20M
 Sphere Temperature (°C): 24.2

REPORT NUMBER: SP1-2408-195-9

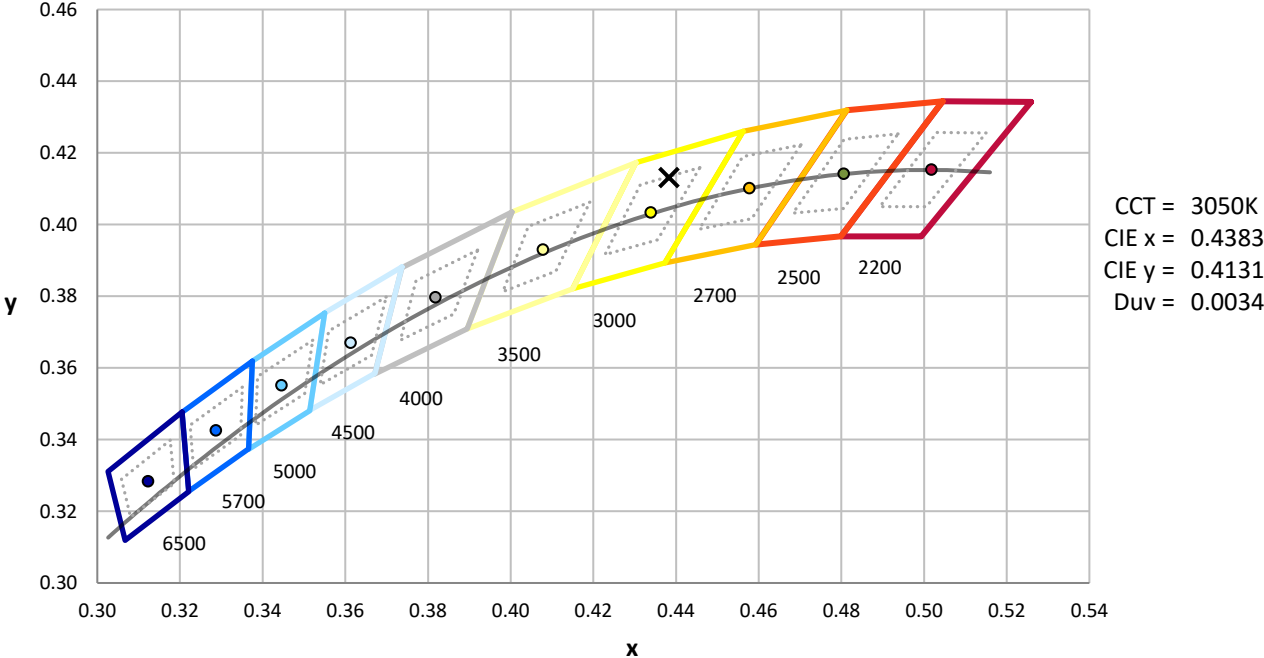
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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



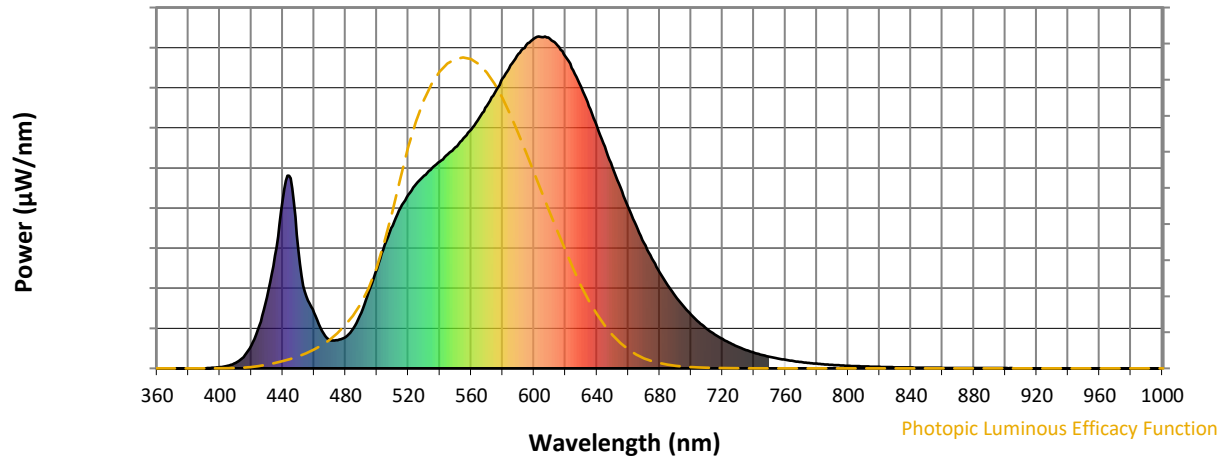
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2408-195-9

Photopic Flux vs. Wavelength

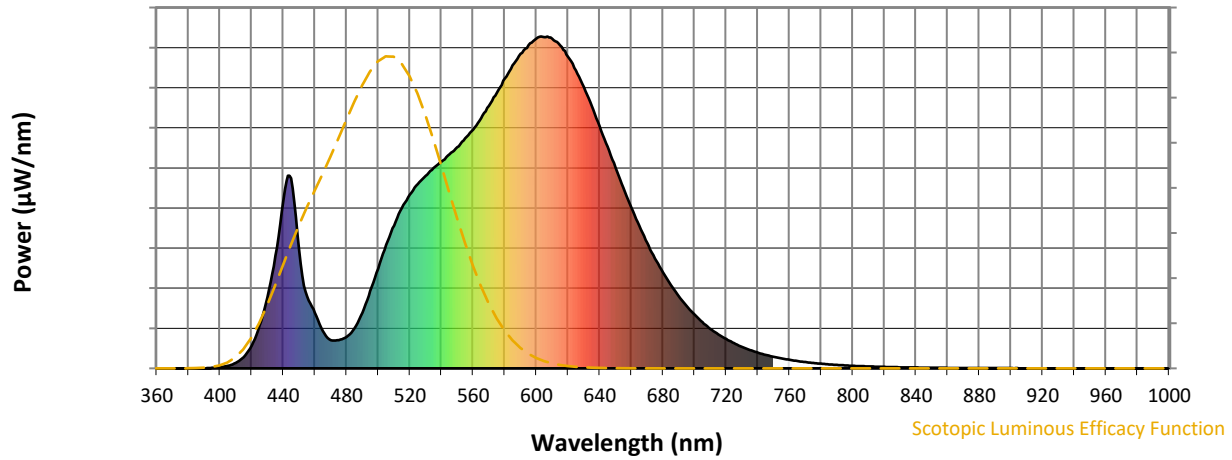


Photopic Lumens: NR

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



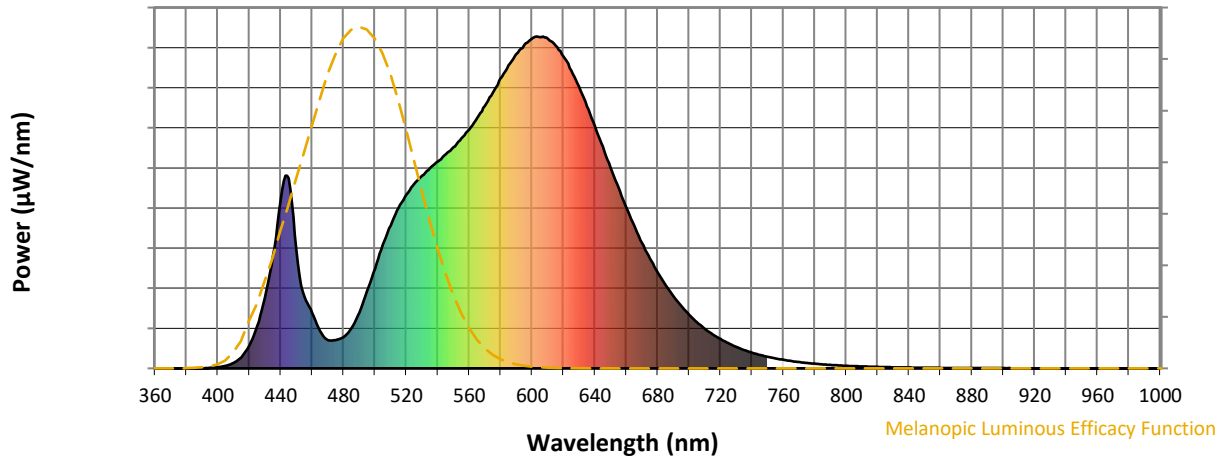
Scotopic Lumens: NR

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



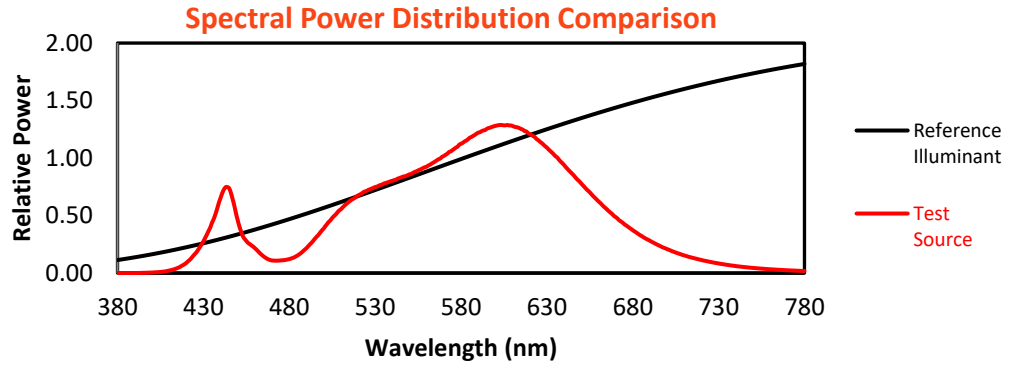
Melanopic Lumens: NR

M/P: 2.32

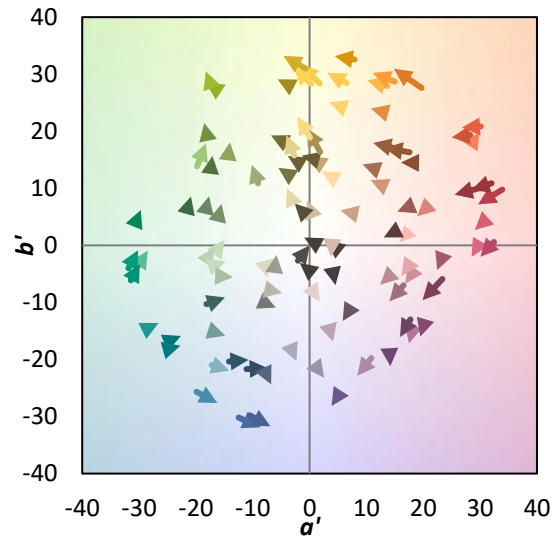
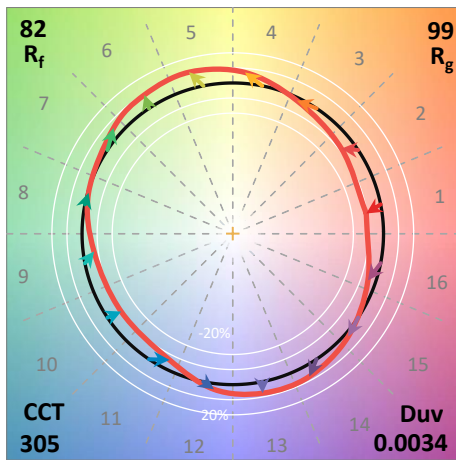
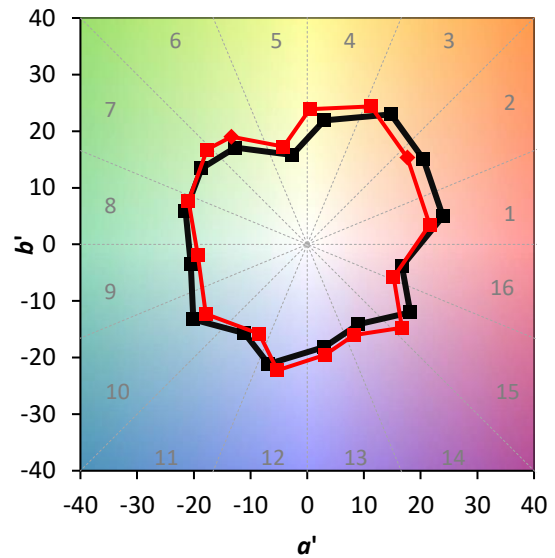
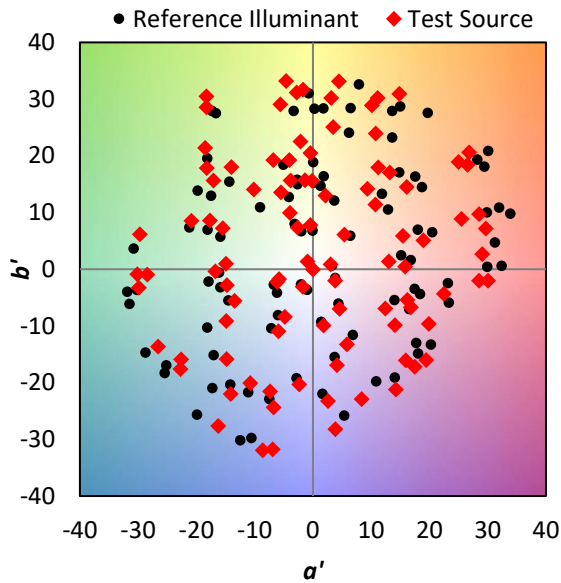
λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)	λ (nm)	Power W [^] /nm	Lumens (φ/nm)
360	0	NR	490	168	NR	620	940	NR	750	35	NR	880	1	NR
365	0	NR	495	233	NR	625	897	NR	755	30	NR	885	1	NR
370	0	NR	500	300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

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

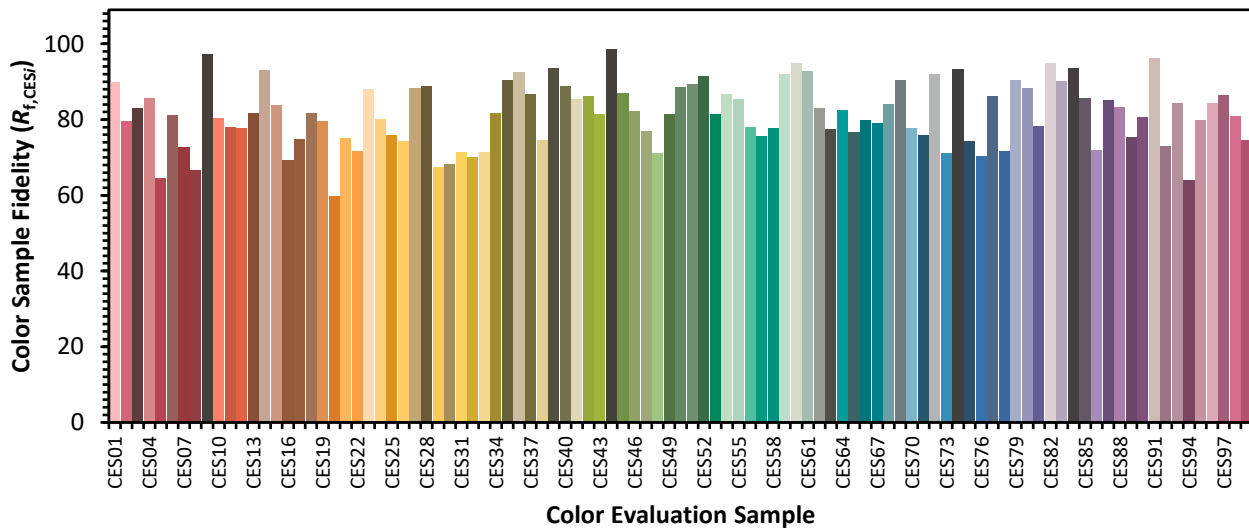


Color Vector Graphics

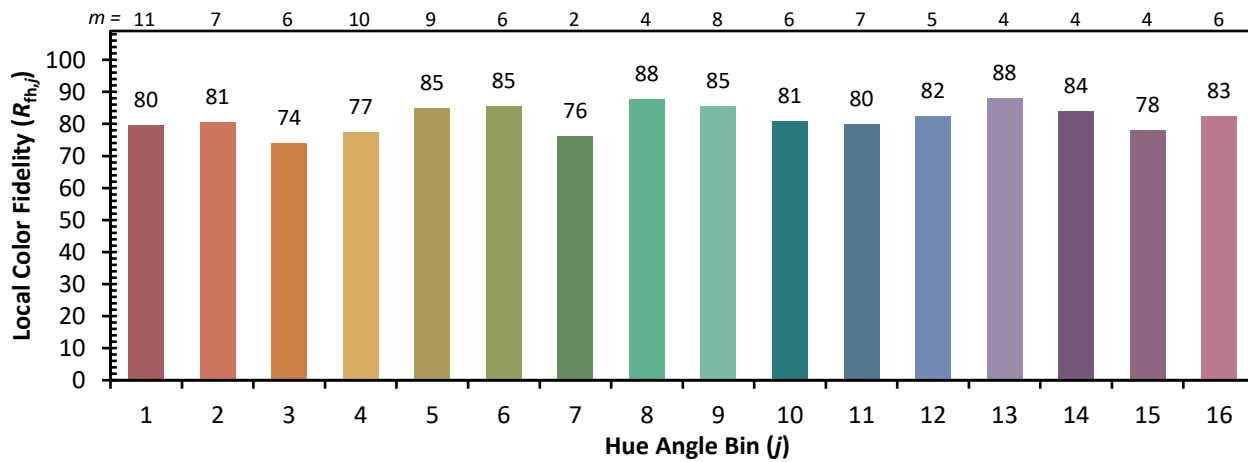
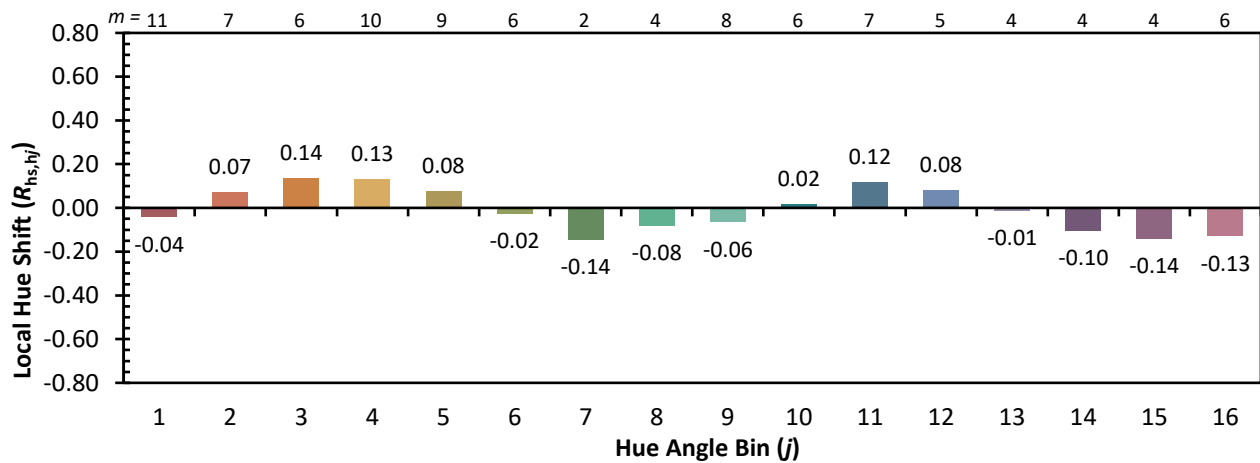
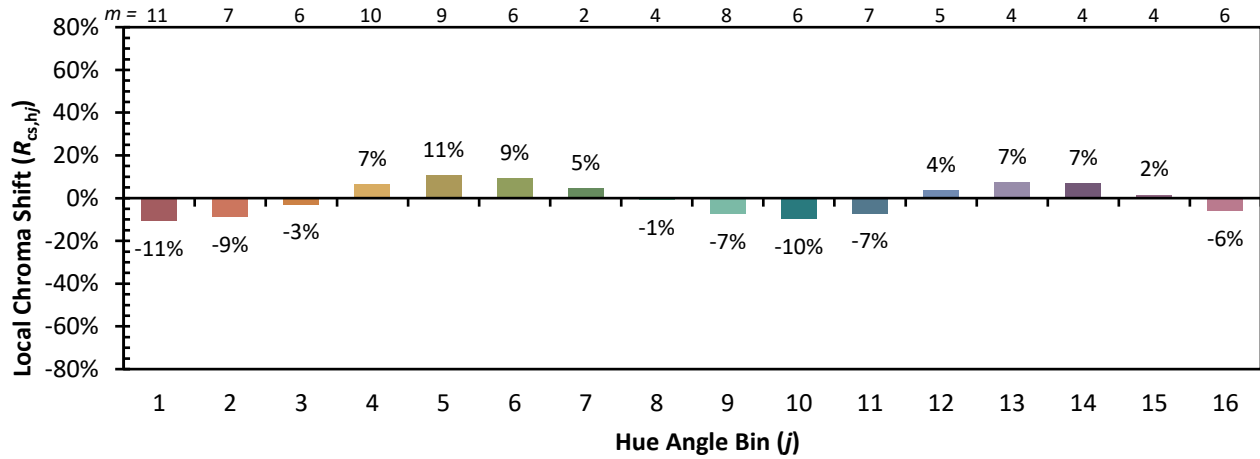


Individual Sample Fidelity Index ($R_{f,i}$)

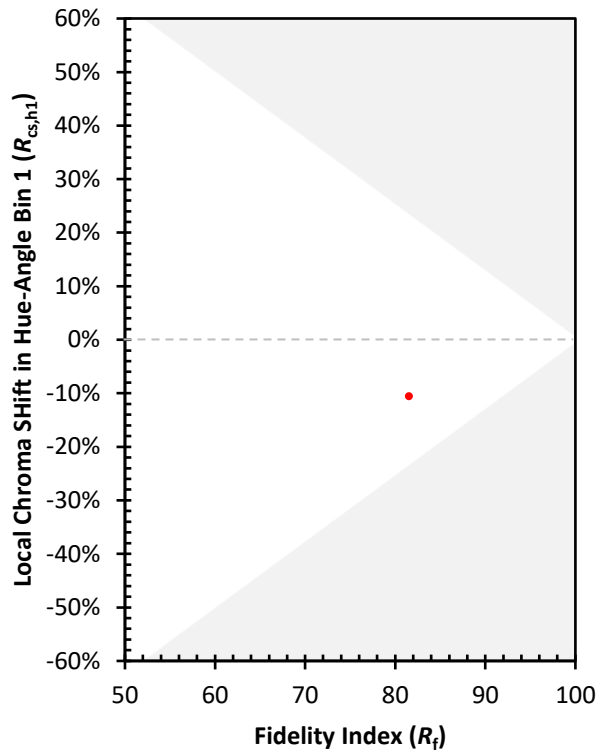
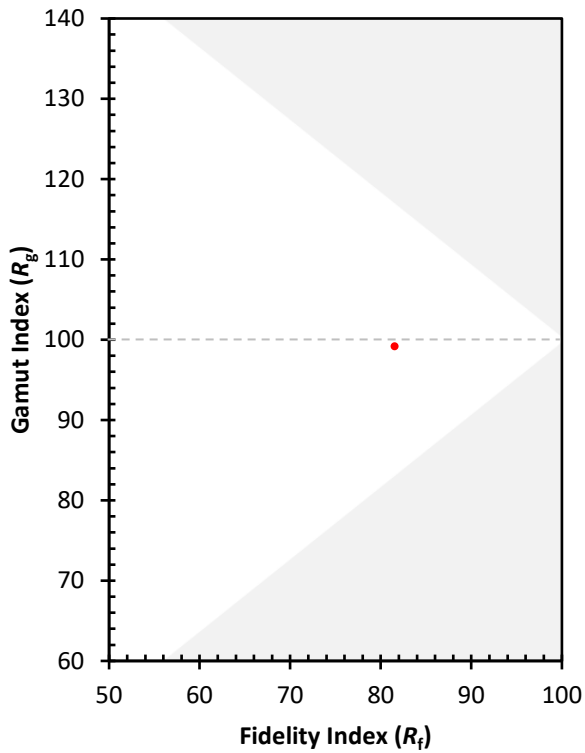
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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