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

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1202741

Luminaire Tested: GWC-SB2A-830-U-SLL

Issue Date: 10/30/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1202741
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab:	INNOVATION CENTER
Issue Date:	3/14/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GWC-SB2A-830-U-SLL
Description:	GALLEON WALL LUMINAIRE
	(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT ELIMINATOF
	LEFT OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	8030 lumens
Efficiency:	N/A
Efficacy:	140.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B2 - U0 - G3

Input Watts (W):	57.3
Input Voltage (V):	120.0
Input Current (Ain):	0.484
Voltage Rise (V):	NR
Power Factor:	0.994
Total Harmonic Distortion (THDi):	9.038
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

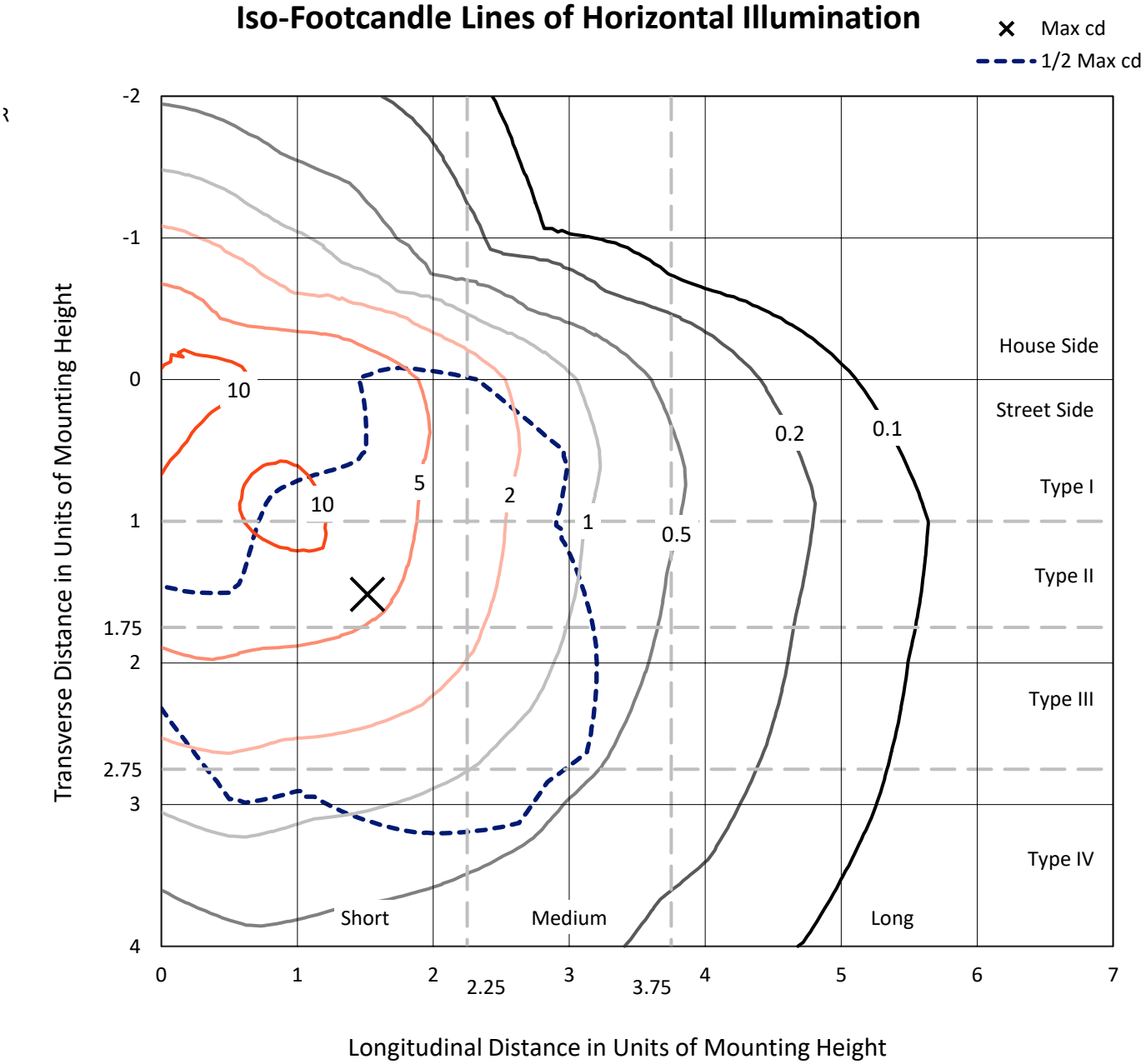


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Iso-Footcandle Lines of Horizontal Illumination



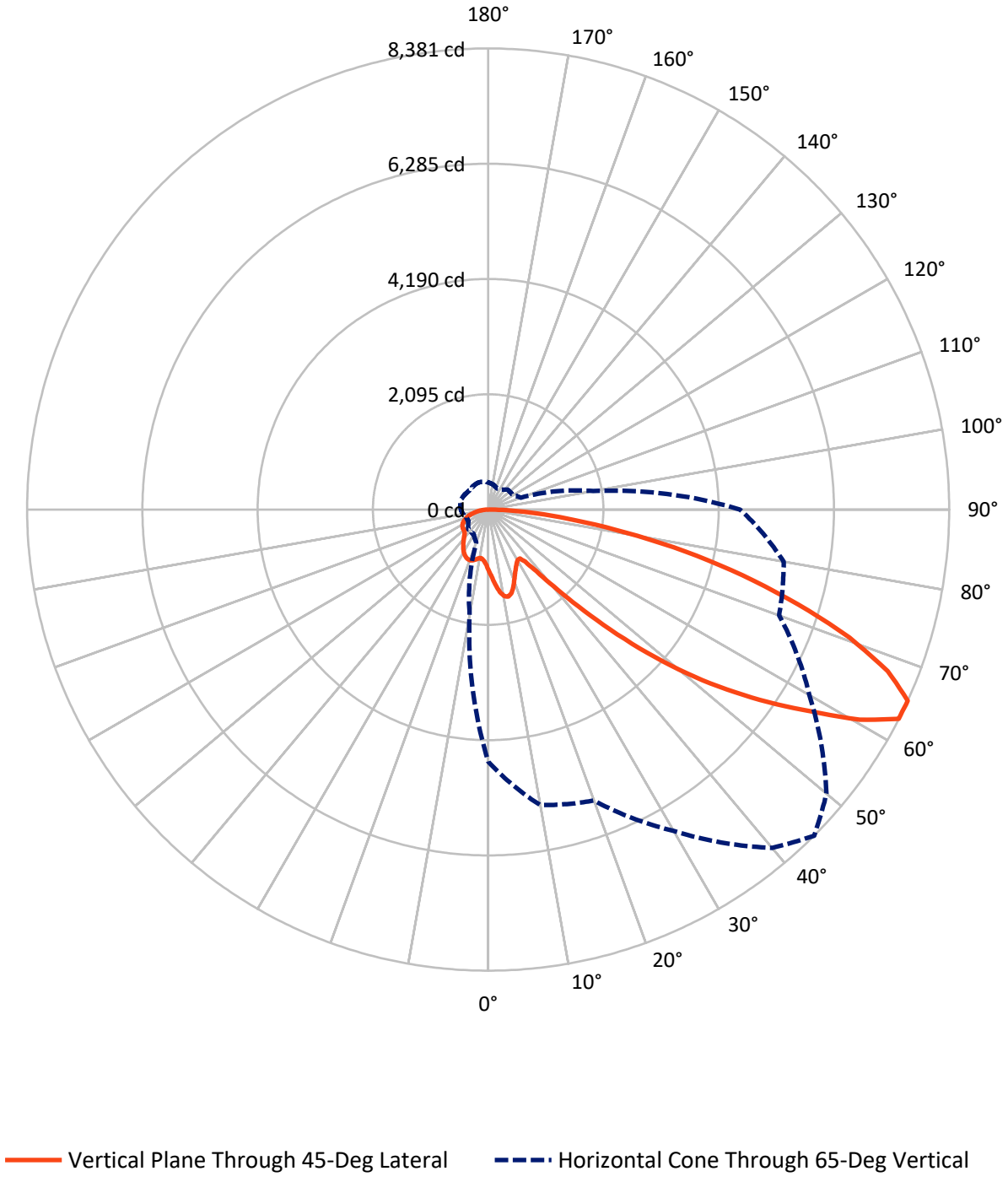
Based on 10 foot mounting height. Maximum calculated value = 14 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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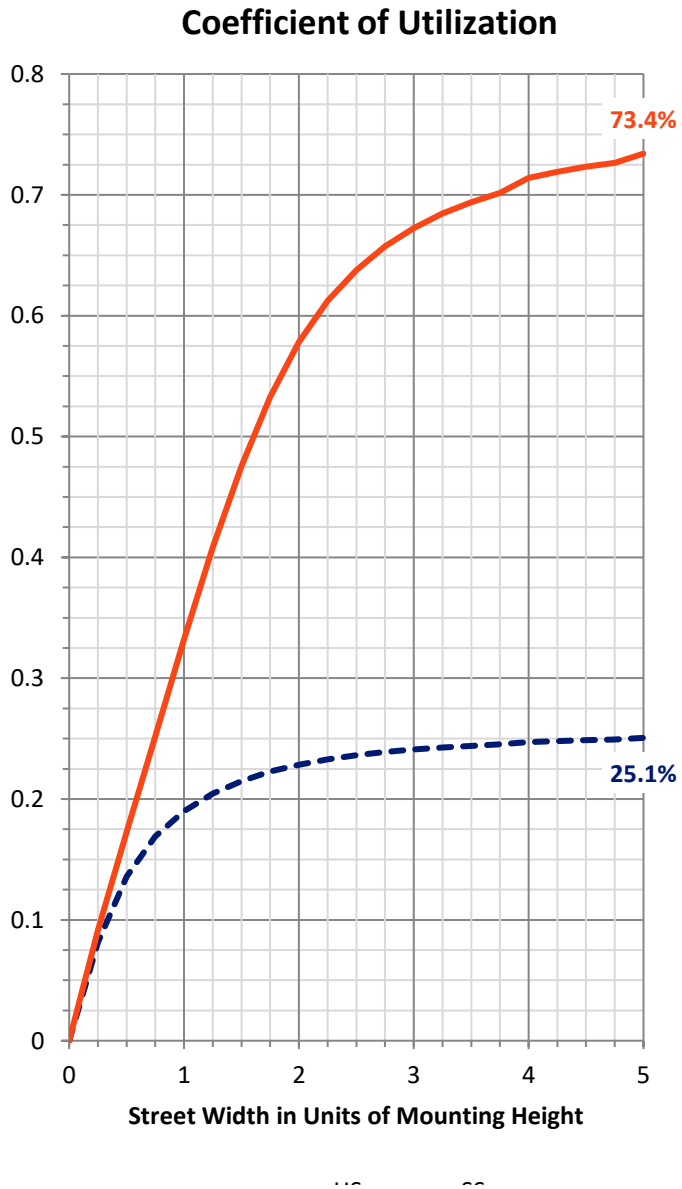
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2040.8	0.0	2040.8
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	5989.2	0.0	5989.2
	% Fixture	74.6	0.0	74.6
Total	Lumens	8030.0	0.0	8030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	1.4
10°-20°	343.9	4.3
20°-30°	531.1	6.6
30°-40°	673.1	8.4
40°-50°	1015.2	12.6
50°-60°	1640.2	20.4
60°-70°	2044.7	25.5
70°-80°	1340.8	16.7
80°-90°	331.5	4.1
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°	8030.0	100.0
0°-180°	8030.0	100.0



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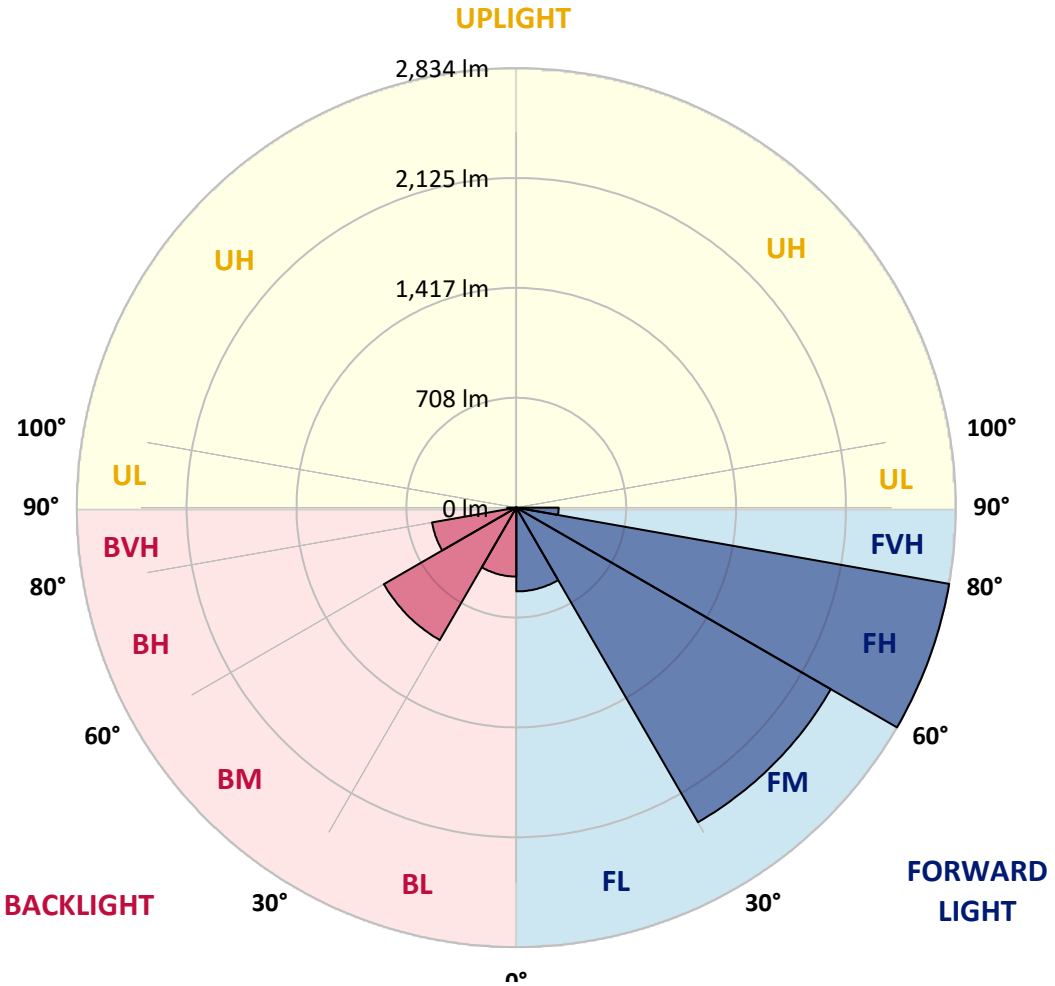
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	540.1	6.7			
FM	(30°-60°)	2342.2	29.2			
FH	(60°-80°)	2833.8	35.3			G2/5000
FVH	(80°-90°)	273.1	3.4			G3/500
BL	(0°-30°)	444.4	5.5	B1/500		
BM	(30°-60°)	986.3	12.3	B1/1000		
BH	(60°-80°)	551.7	6.9	B2/1000		G2/1000
BVH	(80°-90°)	58.4	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	*1104.2*	1104.2
2.5°	1187.5	1191.9	1196.5	1202.9	1209.3	1213.1	1216.9	1218.8	1220.7	*1219.9*	1220.7
5°	1276.9	1292.6	1308.3	1323.9	1339.6	1348.0	1356.5	1361.6	1366.8	*1370.7*	1366.8
7.5°	1366.7	1392.3	1417.8	1440.8	1463.8	1477.7	1491.6	1499.1	1506.5	*1510.1*	1506.5
10°	1435.5	1465.8	1496.0	1523.0	1550.0	1566.4	1582.7	1589.9	1597.2	*1599.9*	1597.2
12.5°	1477.7	1510.5	1543.2	1567.7	1592.0	1603.8	1615.7	1619.7	1623.7	*1624.1*	1623.7
15°	1503.3	1531.6	1559.9	1575.2	1590.5	1591.0	1591.4	1587.1	1582.9	*1577.9*	1582.9
17.5°	1517.7	1536.8	1556.0	1556.3	1556.5	1539.3	1522.2	1506.5	1490.7	*1479.6*	1490.7
20°	1533.6	1540.3	1547.0	1526.8	1506.7	1468.8	1431.0	1403.4	1375.8	*1358.8*	1375.8
22.5°	1552.1	1543.3	1534.6	1492.9	1451.2	1395.5	1339.8	1305.3	1270.8	*1252.1*	1270.8
25°	1575.8	1548.2	1520.7	1457.4	1394.1	1326.4	1258.8	1222.5	1186.3	*1168.6*	1186.3
27.5°	1608.0	1558.8	1509.5	1425.6	1341.8	1266.8	1191.8	1156.1	1120.5	*1103.8*	1120.5
30°	1651.4	1578.0	1504.6	1401.4	1298.2	1220.0	1141.9	1108.8	1075.7	*1060.1*	1075.7
32.5°	1702.7	1602.1	1501.6	1384.9	1268.1	1194.7	1121.2	1095.3	1069.2	*1058.0*	1069.2
35°	1765.0	1641.9	1518.9	1397.2	1275.6	1224.6	1173.6	1167.5	1161.5	*1160.5*	1161.5
37.5°	1869.8	1725.1	1580.4	1469.8	1359.2	1355.9	1352.6	1380.3	1408.0	*1422.4*	1408.0
40°	2028.3	1870.9	1713.5	1631.2	1549.0	1607.1	1665.1	1732.5	1799.8	*1833.4*	1799.8
42.5°	2238.5	2082.3	1926.1	1878.7	1831.4	1958.0	2084.6	2207.1	2329.7	*2401.6*	2329.7
45°	2498.0	2357.7	2217.4	2196.5	2175.6	2378.4	2581.3	2782.6	2984.0	*3106.2*	2984.0
47.5°	2822.6	2686.1	2549.6	2545.3	2541.1	2833.7	3126.2	3421.0	3715.7	*3888.8*	3715.7
50°	3248.0	3079.4	2910.8	2911.5	2912.3	3289.4	3666.5	4055.6	4444.7	*4679.9*	4444.7
52.5°	3736.3	3532.2	3328.0	3307.4	3286.7	3737.2	4187.6	4669.1	5150.4	*5432.4*	5150.4
55°	4256.2	4054.5	3852.8	3772.4	3691.9	4193.2	4694.5	5268.4	5842.4	*6177.7*	5842.4
57.5°	4729.1	4619.2	4509.4	4348.0	4186.6	4692.8	5199.0	5849.1	6499.1	*6915.0*	6499.1
60°	5014.8	5185.4	5356.1	5155.6	4955.2	5434.3	5913.3	6609.3	7305.3	*7754.8*	7305.3
62.5°	4869.7	5335.9	5802.0	5779.4	5756.8	6195.6	6634.5	7296.7	7958.8	*8374.2*	7958.8
65°	*4579.3*	*5016.8*	*5454.2*	*5540.8*	*5627.3*	*6185.0*	*6742.7*	*7384.8*	*8026.9*	*8380.6*	*8026.9*
67.5°	4190.1	4606.2	5022.3	5062.9	5103.4	5684.5	6265.5	6910.4	7555.2	*7832.3*	7555.2
70°	3722.5	4175.1	4627.7	4645.8	4664.0	5183.7	5703.3	6258.2	6813.1	*6967.1*	6813.1
72.5°	3165.3	3684.7	4204.1	4217.1	4230.1	4636.7	5043.2	5458.9	5874.4	*5890.0*	5874.4
75°	2460.5	2998.0	3535.5	3583.8	3632.1	3948.4	4264.7	4557.2	4849.8	*4771.4*	4849.8
77.5°	1758.0	2259.7	2761.5	2830.6	2899.7	3140.1	3380.6	3588.1	3795.6	*3660.9*	3795.6
80°	1150.6	1572.7	1994.8	2080.7	2166.5	2348.1	2529.6	2638.6	2747.6	*2530.8*	2747.6
82.5°	668.8	957.4	1246.1	1341.9	1437.9	1562.9	1687.9	1733.3	1778.7	*1608.4*	1778.7
85°	294.3	447.4	600.6	682.2	763.7	866.4	969.1	994.9	1020.7	*884.3*	1020.7
87.5°	91.1	142.6	194.1	239.6	285.1	336.4	387.8	390.0	392.1	*329.2*	392.1
90°	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°	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2
2.5°	1218.8	1216.9	1213.1	1209.3	1202.9	1196.5	1191.9	1187.5	1178.3	1169.2	1159.5
5°	1361.6	1356.5	1348.0	1339.6	1323.9	1308.3	1292.6	1276.9	1256.7	1236.6	1216.5
7.5°	1499.1	1491.6	1477.7	1463.8	1440.8	1417.8	1392.3	1366.7	1333.5	1300.3	1269.6
10°	1589.9	1582.7	1566.4	1550.0	1523.0	1496.0	1465.8	1435.5	1393.5	1351.6	1311.0
12.5°	1619.7	1615.7	1603.8	1592.0	1567.7	1543.2	1510.5	1477.7	1431.6	1385.5	1339.5
15°	1587.1	1591.4	1591.0	1590.5	1575.2	1559.9	1531.6	1503.3	1455.2	1407.1	1357.3
17.5°	1506.5	1522.2	1539.3	1556.5	1556.3	1556.0	1536.8	1517.7	1469.0	1420.2	1365.8
20°	1403.4	1431.0	1468.8	1506.7	1526.8	1547.0	1540.3	1533.6	1483.0	1432.2	1372.5
22.5°	1305.3	1339.8	1395.5	1451.2	1492.9	1534.6	1543.3	1552.1	1500.3	1448.5	1381.5
25°	1222.5	1258.8	1326.4	1394.1	1457.4	1520.7	1548.2	1575.8	1525.0	1474.3	1397.7
27.5°	1156.1	1191.8	1266.8	1341.8	1425.6	1509.5	1558.8	1608.0	1559.6	1511.2	1423.2
30°	1108.8	1141.9	1220.0	1298.2	1401.4	1504.6	1578.0	1651.4	1604.6	1557.9	1456.1
32.5°	1095.3	1121.2	1194.7	1268.1	1384.9	1501.6	1602.1	1702.7	1656.4	1610.1	1490.5
35°	1167.5	1173.6	1224.6	1275.6	1397.2	1518.9	1641.9	1765.0	1720.7	1676.3	1529.6
37.5°	1380.3	1352.6	1355.9	1359.2	1469.8	1580.4	1725.1	1869.8	1813.3	1756.8	1573.5
40°	1732.5	1665.1	1607.1	1549.0	1631.2	1713.5	1870.9	2028.3	1945.9	1863.6	1629.1
42.5°	2207.1	2084.6	1958.0	1831.4	1878.7	1926.1	2082.3	2238.5	2119.6	2000.7	1702.0
45°	2782.6	2581.3	2378.4	2175.6	2196.5	2217.4	2357.7	2498.0	2337.6	2177.2	1797.8
47.5°	3421.0	3126.2	2833.7	2541.1	2545.3	2549.6	2686.1	2822.6	2596.8	2371.1	1899.9
50°	4055.6	3666.5	3289.4	2912.3	2911.5	2910.8	3079.4	3248.0	2907.7	2567.4	1994.7
52.5°	4669.1	4187.6	3737.2	3286.7	3307.4	3328.0	3532.2	3736.3	3234.2	2732.1	2056.2
55°	5268.4	4694.5	4193.2	3691.9	3772.4	3852.8	4054.5	4256.2	3523.7	2791.2	2042.6
57.5°	5849.1	5199.0	4692.8	4186.6	4348.0	4509.4	4619.2	4729.1	3728.8	2728.6	1947.2
60°	6609.3	5913.3	5434.3	4955.2	5155.6	5356.1	5185.4	5014.8	3780.1	2545.3	1769.6
62.5°	7296.7	6634.5	6195.6	5756.8	5779.4	5802.0	5335.9	4869.7	3564.2	2258.7	1529.5
65°	*7384.8*	*6742.7*	*6185.0*	*5627.3*	*5540.8*	*5454.2*	*5016.8*	*4579.3*	*3258.8*	*1938.3*	*1284.5*
67.5°	6910.4	6265.5	5684.5	5103.4	5062.9	5022.3	4606.2	4190.1	2895.3	1600.4	1044.5
70°	6258.2	5703.3	5183.7	4664.0	4645.8	4627.7	4175.1	3722.5	2498.6	1274.7	822.4
72.5°	5458.9	5043.2	4636.7	4230.1	4217.1	4204.1	3684.7	3165.3	2068.6	972.0	628.7
75°	4557.2	4264.7	3948.4	3632.1	3583.8	3535.5	2998.0	2460.5	1575.7	691.0	456.3
77.5°	3588.1	3380.6	3140.1	2899.7	2830.6	2761.5	2259.7	1758.0	1102.9	447.8	309.2
80°	2638.6	2529.6	2348.1	2166.5	2080.7	1994.8	1572.7	1150.6	710.6	270.5	199.2
82.5°	1733.3	1687.9	1562.9	1437.9	1341.9	1246.1	957.4	668.8	411.3	153.7	122.5
85°	994.9	969.1	866.4	763.7	682.2	600.6	447.4	294.3	185.0	75.8	65.5
87.5°	390.0	387.8	336.4	285.1	239.6	194.1	142.6	91.1	60.6	30.1	27.2
90°	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2
2.5°	1149.9	1140.1	1130.4	1121.1	1111.7	1102.7	1092.7	1084.5	1076.4	1069.1	1061.8
5°	1196.5	1176.3	1156.1	1137.2	1118.4	1100.6	1083.0	1067.7	1052.3	1039.4	1026.6
7.5°	1238.9	1209.1	1179.2	1152.9	1126.6	1102.3	1079.5	1059.1	1038.7	1021.8	1004.8
10°	1270.5	1234.2	1197.9	1166.8	1135.6	1105.7	1081.2	1059.7	1038.2	1021.2	1004.3
12.5°	1293.6	1250.8	1208.0	1172.8	1137.6	1106.1	1083.3	1065.7	1048.2	1036.9	1025.7
15°	1307.5	1258.2	1208.9	1168.2	1127.4	1092.5	1074.3	1065.9	1057.5	1059.0	1060.6
17.5°	1311.5	1254.3	1197.1	1148.0	1099.0	1058.0	1046.8	1049.9	1052.9	1071.4	1089.9
20°	1312.7	1243.4	1174.1	1113.3	1052.6	1004.8	1001.9	1016.3	1030.7	1062.8	1094.9
22.5°	1314.4	1230.1	1145.8	1072.6	999.5	945.1	950.9	972.2	993.5	1030.1	1066.8
25°	1321.1	1217.0	1112.9	1027.2	941.5	885.8	901.4	926.0	950.6	983.5	1016.5
27.5°	1335.1	1208.2	1081.3	985.6	889.9	839.2	858.2	882.0	905.7	932.8	959.8
30°	1354.3	1204.1	1053.9	950.9	847.8	805.3	820.2	839.0	857.9	880.4	902.8
32.5°	1370.8	1199.0	1027.2	920.9	814.6	780.3	786.9	798.1	809.2	827.1	845.1
35°	1382.9	1189.4	996.1	891.4	786.8	758.2	755.5	758.5	761.6	775.3	789.0
37.5°	1390.1	1173.0	956.0	856.8	757.6	732.6	722.5	719.1	715.7	725.6	735.4
40°	1394.6	1150.5	906.3	815.4	724.5	701.9	686.4	678.7	671.1	678.2	685.2
42.5°	1403.3	1127.2	851.2	769.8	688.4	667.6	648.1	637.9	627.7	633.5	639.3
45°	1418.4	1105.5	792.7	721.3	650.0	628.8	609.9	600.0	590.1	595.0	599.9
47.5°	1428.8	1087.6	746.5	683.0	619.5	592.1	575.9	567.6	559.3	563.9	568.4
50°	1422.0	1068.1	714.3	657.5	600.7	564.8	546.0	538.6	531.3	538.4	545.5
52.5°	1380.2	1035.2	690.2	640.7	591.3	550.0	523.6	516.3	509.1	519.8	530.5
55°	1294.0	980.6	667.3	628.6	589.9	551.5	511.8	500.2	488.8	504.0	519.1
57.5°	1165.8	903.7	641.5	614.2	586.8	552.9	504.6	487.9	471.1	487.4	503.8
60°	993.9	803.8	613.6	592.1	570.7	548.3	497.9	476.2	454.4	468.8	483.1
62.5°	800.3	684.2	568.1	553.8	539.6	536.8	490.2	462.9	435.8	444.9	454.0
65°	*630.8*	*576.6*	*522.4*	*515.7*	*509.0*	*509.3*	*473.7*	*444.8*	*415.9*	*419.4*	*422.9*
67.5°	488.6	473.2	457.8	461.6	465.3	464.4	444.4	420.3	396.3	395.2	394.1
70°	370.1	374.5	378.9	396.3	413.8	413.8	407.2	390.1	373.0	369.1	365.3
72.5°	285.5	298.8	312.1	336.8	361.5	365.7	365.7	354.0	342.3	336.7	331.1
75°	221.7	233.7	245.8	273.5	301.2	320.3	318.7	309.7	300.6	295.3	289.9
77.5°	170.7	178.8	187.1	214.0	240.9	272.4	271.6	264.4	257.1	251.7	246.3
80°	128.0	131.4	134.7	157.5	180.3	218.0	217.9	211.8	205.7	201.2	196.6
82.5°	91.4	92.0	92.7	109.5	126.3	158.5	160.2	157.3	154.3	151.1	147.9
85°	55.3	55.0	54.7	66.9	79.2	103.2	105.5	102.3	99.1	95.5	91.9
87.5°	24.2	23.9	23.6	28.6	33.7	43.6	46.6	45.3	44.1	43.4	42.7
90°	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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2
2.5°	1055.4	1049.0	1042.6	1036.2	1031.2	1026.2	1022.2	1018.2	1015.0	1011.9	1009.0
5°	1015.2	1003.9	993.6	983.2	975.3	967.3	961.8	956.2	952.3	948.4	945.3
7.5°	990.6	976.2	963.6	951.0	941.6	932.2	925.6	918.9	914.4	909.9	907.2
10°	988.9	973.5	959.3	945.1	933.8	922.5	915.1	907.7	903.4	899.1	896.8
12.5°	1013.6	1001.6	986.9	972.2	957.8	943.4	933.9	924.3	919.5	914.8	912.8
15°	1057.4	1054.3	1041.5	1028.8	1008.3	987.8	973.3	958.8	952.1	945.5	943.0
17.5°	1099.7	1109.5	1099.2	1088.9	1061.8	1034.6	1013.3	991.9	982.1	972.2	969.0
20°	1115.4	1136.0	1131.2	1126.4	1095.4	1064.4	1038.2	1012.0	999.5	986.8	982.8
22.5°	1093.6	1120.3	1123.2	1126.0	1096.4	1066.7	1039.7	1012.8	999.5	986.2	981.7
25°	1042.8	1069.1	1078.9	1088.7	1064.4	1040.1	1016.1	992.2	980.7	969.2	965.0
27.5°	980.9	1002.0	1012.9	1023.9	1006.6	989.3	970.7	952.1	944.4	936.6	934.7
30°	920.3	937.9	946.8	955.7	942.5	929.3	916.0	902.6	898.7	894.7	894.7
32.5°	861.9	878.7	888.6	898.5	886.4	874.2	863.6	852.9	850.3	847.8	848.1
35°	805.6	822.2	834.1	845.9	837.3	828.7	818.9	809.1	805.1	801.2	800.4
37.5°	751.9	768.5	783.2	797.9	793.9	789.9	780.9	771.8	764.6	757.5	753.7
40°	701.2	717.3	734.1	751.0	752.0	752.9	745.3	737.6	727.2	716.8	709.8
42.5°	654.5	669.7	687.9	706.1	711.0	715.9	709.4	702.9	690.0	677.1	666.9
45°	614.3	628.7	647.6	666.5	673.5	680.5	674.6	668.8	654.0	639.3	627.3
47.5°	582.5	596.6	615.2	633.9	641.9	650.0	645.9	641.8	628.7	615.6	604.5
50°	558.8	572.1	588.8	605.5	615.8	626.2	625.9	625.7	615.2	604.7	594.5
52.5°	542.7	554.9	570.4	586.0	598.2	610.5	612.7	614.9	606.3	597.8	588.6
55°	532.3	545.4	559.0	572.6	585.6	598.6	601.7	604.7	597.3	589.8	581.8
57.5°	519.2	534.6	548.1	561.6	574.7	587.8	590.9	594.0	586.4	578.9	570.9
60°	500.8	518.5	532.2	546.0	559.1	572.2	575.6	579.0	571.6	564.3	556.1
62.5°	474.6	495.3	509.9	524.6	536.6	548.6	551.9	555.1	548.5	541.8	533.2
65°	*445.0*	*467.1*	*481.1*	*495.1*	*505.7*	*516.3*	*519.6*	*522.9*	*516.5*	*510.1*	*501.8*
67.5°	414.5	434.9	448.2	461.4	470.6	479.7	483.0	486.2	480.3	474.5	466.7
70°	383.3	401.3	412.7	424.1	432.4	440.7	443.8	446.9	442.1	437.4	429.9
72.5°	345.3	359.4	369.7	380.1	388.2	396.3	400.0	403.7	399.7	395.7	388.6
75°	300.4	310.9	320.3	329.6	337.0	344.4	348.3	352.2	350.2	348.3	342.3
77.5°	254.8	263.3	271.4	279.4	287.2	294.9	298.5	302.2	299.5	296.7	290.7
80°	203.7	210.8	217.6	224.4	230.2	236.1	240.9	245.8	244.6	243.4	235.3
82.5°	147.3	146.7	144.3	141.9	154.5	167.0	175.2	183.5	183.0	182.4	175.6
85°	88.9	85.8	79.2	72.7	84.4	96.2	106.4	116.5	115.7	114.8	109.5
87.5°	42.6	42.5	37.5	32.4	37.3	42.3	46.4	50.5	49.5	48.4	45.7
90°	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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2
2.5°	1006.1	1002.5	1006.1	1009.0	1011.9	1015.0	1018.2	1022.2	1026.2	1031.2	1036.2
5°	942.3	939.4	942.3	945.3	948.4	952.3	956.2	961.8	967.3	975.3	983.2
7.5°	904.5	902.5	904.5	907.2	909.9	914.4	918.9	925.6	932.2	941.6	951.0
10°	894.5	893.6	894.5	896.8	899.1	903.4	907.7	915.1	922.5	933.8	945.1
12.5°	910.9	910.6	910.9	912.8	914.8	919.5	924.3	933.9	943.4	957.8	972.2
15°	940.4	940.2	940.4	943.0	945.5	952.1	958.8	973.3	987.8	1008.3	1028.8
17.5°	965.7	965.2	965.7	969.0	972.2	982.1	991.9	1013.3	1034.6	1061.8	1088.9
20°	978.8	977.5	978.8	982.8	986.8	999.5	1012.0	1038.2	1064.4	1095.4	1126.4
22.5°	977.3	975.4	977.3	981.7	986.2	999.5	1012.8	1039.7	1066.7	1096.4	1126.0
25°	960.9	958.4	960.9	965.0	969.2	980.7	992.2	1016.1	1040.1	1064.4	1088.7
27.5°	932.8	932.2	932.8	934.7	936.6	944.4	952.1	970.7	989.3	1006.6	1023.9
30°	894.7	895.3	894.7	894.7	894.7	898.7	902.6	916.0	929.3	942.5	955.7
32.5°	848.5	849.1	848.5	848.1	847.8	850.3	852.9	863.6	874.2	886.4	898.5
35°	799.5	799.1	799.5	800.4	801.2	805.1	809.1	818.9	828.7	837.3	845.9
37.5°	750.0	747.9	750.0	753.7	757.5	764.6	771.8	780.9	789.9	793.9	797.9
40°	702.9	698.7	702.9	709.8	716.8	727.2	737.6	745.3	752.9	752.0	751.0
42.5°	656.7	650.0	656.7	666.9	677.1	690.0	702.9	709.4	715.9	711.0	706.1
45°	615.3	607.6	615.3	627.3	639.3	654.0	668.8	674.6	680.5	673.5	666.5
47.5°	593.4	586.0	593.4	604.5	615.6	628.7	641.8	645.9	650.0	641.9	633.9
50°	584.2	577.1	584.2	594.5	604.7	615.2	625.7	625.9	626.2	615.8	605.5
52.5°	579.4	572.9	579.4	588.6	597.8	606.3	614.9	612.7	610.5	598.2	586.0
55°	573.7	567.8	573.7	581.8	589.8	597.3	604.7	601.7	598.6	585.6	572.6
57.5°	562.9	556.8	562.9	570.9	578.9	586.4	594.0	590.9	587.8	574.7	561.6
60°	547.9	541.5	547.9	556.1	564.3	571.6	579.0	575.6	572.2	559.1	546.0
62.5°	524.6	516.9	524.6	533.2	541.8	548.5	555.1	551.9	548.6	536.6	524.6
65°	*493.4*	*486.8*	*493.4*	*501.8*	*510.1*	*516.5*	*522.9*	*519.6*	*516.3*	*505.7*	*495.1*
67.5°	458.9	452.9	458.9	466.7	474.5	480.3	486.2	483.0	479.7	470.6	461.4
70°	422.4	415.7	422.4	429.9	437.4	442.1	446.9	443.8	440.7	432.4	424.1
72.5°	381.6	375.0	381.6	388.6	395.7	399.7	403.7	400.0	396.3	388.2	380.1
75°	336.3	330.1	336.3	342.3	348.3	350.2	352.2	348.3	344.4	337.0	329.6
77.5°	284.6	279.7	284.6	290.7	296.7	299.5	302.2	298.5	294.9	287.2	279.4
80°	227.2	217.8	227.2	235.3	243.4	244.6	245.8	240.9	236.1	230.2	224.4
82.5°	168.7	162.7	168.7	175.6	182.4	183.0	183.5	175.2	167.0	154.5	141.9
85°	104.1	98.7	104.1	109.5	114.8	115.7	116.5	106.4	96.2	84.4	72.7
87.5°	42.9	40.3	42.9	45.7	48.4	49.5	50.5	46.4	42.3	37.3	32.4
90°	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):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2
2.5°	1042.6	1049.0	1055.4	1061.8	1069.1	1076.4	1084.5	1092.7	1102.7	1111.7	1121.1
5°	993.6	1003.9	1015.2	1026.6	1039.4	1052.3	1067.7	1083.0	1100.6	1118.4	1137.2
7.5°	963.6	976.2	990.6	1004.8	1021.8	1038.7	1059.1	1079.5	1102.3	1126.6	1152.9
10°	959.3	973.5	988.9	1004.3	1021.2	1038.2	1059.7	1081.2	1105.7	1135.6	1166.8
12.5°	986.9	1001.6	1013.6	1025.7	1036.9	1048.2	1065.7	1083.3	1106.1	1137.6	1172.8
15°	1041.5	1054.3	1057.4	1060.6	1059.0	1057.5	1065.9	1074.3	1092.5	1127.4	1168.2
17.5°	1099.2	1109.5	1099.7	1089.9	1071.4	1052.9	1049.9	1046.8	1058.0	1099.0	1148.0
20°	1131.2	1136.0	1115.4	1094.9	1062.8	1030.7	1016.3	1001.9	1004.8	1052.6	1113.3
22.5°	1123.2	1120.3	1093.6	1066.8	1030.1	993.5	972.2	950.9	945.1	999.5	1072.6
25°	1078.9	1069.1	1042.8	1016.5	983.5	950.6	926.0	901.4	885.8	941.5	1027.2
27.5°	1012.9	1002.0	980.9	959.8	932.8	905.7	882.0	858.2	839.2	889.9	985.6
30°	946.8	937.9	920.3	902.8	880.4	857.9	839.0	820.2	805.3	847.8	950.9
32.5°	888.6	878.7	861.9	845.1	827.1	809.2	798.1	786.9	780.3	814.6	920.9
35°	834.1	822.2	805.6	789.0	775.3	761.6	758.5	755.5	758.2	786.8	891.4
37.5°	783.2	768.5	751.9	735.4	725.6	715.7	719.1	722.5	732.6	757.6	856.8
40°	734.1	717.3	701.2	685.2	678.2	671.1	678.7	686.4	701.9	724.5	815.4
42.5°	687.9	669.7	654.5	639.3	633.5	627.7	637.9	648.1	667.6	688.4	769.8
45°	647.6	628.7	614.3	599.9	595.0	590.1	600.0	609.9	628.8	650.0	721.3
47.5°	615.2	596.6	582.5	568.4	563.9	559.3	567.6	575.9	592.1	619.5	683.0
50°	588.8	572.1	558.8	545.5	538.4	531.3	538.6	546.0	564.8	600.7	657.5
52.5°	570.4	554.9	542.7	530.5	519.8	509.1	516.3	523.6	550.0	591.3	640.7
55°	559.0	545.4	532.3	519.1	504.0	488.8	500.2	511.8	551.5	589.9	628.6
57.5°	548.1	534.6	519.2	503.8	487.4	471.1	487.9	504.6	552.9	586.8	614.2
60°	532.2	518.5	500.8	483.1	468.8	454.4	476.2	497.9	548.3	570.7	592.1
62.5°	509.9	495.3	474.6	454.0	444.9	435.8	462.9	490.2	536.8	539.6	553.8
65°	*481.1*	*467.1*	*445.0*	*422.9*	*419.4*	*415.9*	*444.8*	*473.7*	*509.3*	*509.0*	*515.7*
67.5°	448.2	434.9	414.5	394.1	395.2	396.3	420.3	444.4	464.4	465.3	461.6
70°	412.7	401.3	383.3	365.3	369.1	373.0	390.1	407.2	413.8	413.8	396.3
72.5°	369.7	359.4	345.3	331.1	336.7	342.3	354.0	365.7	365.7	361.5	336.8
75°	320.3	310.9	300.4	289.9	295.3	300.6	309.7	318.7	320.3	301.2	273.5
77.5°	271.4	263.3	254.8	246.3	251.7	257.1	264.4	271.6	272.4	240.9	214.0
80°	217.6	210.8	203.7	196.6	201.2	205.7	211.8	217.9	218.0	180.3	157.5
82.5°	144.3	146.7	147.3	147.9	151.1	154.3	157.3	160.2	158.5	126.3	109.5
85°	79.2	85.8	88.9	91.9	95.5	99.1	102.3	105.5	103.2	79.2	66.9
87.5°	37.5	42.5	42.6	42.7	43.4	44.1	45.3	46.6	43.6	33.7	28.6
90°	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):

	330°	335°	340°	345°	350°	355°	360°
0°	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2	1104.2
2.5°	1130.4	1140.1	1149.9	1159.5	1169.2	1178.3	1187.5
5°	1156.1	1176.3	1196.5	1216.5	1236.6	1256.7	1276.9
7.5°	1179.2	1209.1	1238.9	1269.6	1300.3	1333.5	1366.7
10°	1197.9	1234.2	1270.5	1311.0	1351.6	1393.5	1435.5
12.5°	1208.0	1250.8	1293.6	1339.5	1385.5	1431.6	1477.7
15°	1208.9	1258.2	1307.5	1357.3	1407.1	1455.2	1503.3
17.5°	1197.1	1254.3	1311.5	1365.8	1420.2	1469.0	1517.7
20°	1174.1	1243.4	1312.7	1372.5	1432.2	1483.0	1533.6
22.5°	1145.8	1230.1	1314.4	1381.5	1448.5	1500.3	1552.1
25°	1112.9	1217.0	1321.1	1397.7	1474.3	1525.0	1575.8
27.5°	1081.3	1208.2	1335.1	1423.2	1511.2	1559.6	1608.0
30°	1053.9	1204.1	1354.3	1456.1	1557.9	1604.6	1651.4
32.5°	1027.2	1199.0	1370.8	1490.5	1610.1	1656.4	1702.7
35°	996.1	1189.4	1382.9	1529.6	1676.3	1720.7	1765.0
37.5°	956.0	1173.0	1390.1	1573.5	1756.8	1813.3	1869.8
40°	906.3	1150.5	1394.6	1629.1	1863.6	1945.9	2028.3
42.5°	851.2	1127.2	1403.3	1702.0	2000.7	2119.6	2238.5
45°	792.7	1105.5	1418.4	1797.8	2177.2	2337.6	2498.0
47.5°	746.5	1087.6	1428.8	1899.9	2371.1	2596.8	2822.6
50°	714.3	1068.1	1422.0	1994.7	2567.4	2907.7	3248.0
52.5°	690.2	1035.2	1380.2	2056.2	2732.1	3234.2	3736.3
55°	667.3	980.6	1294.0	2042.6	2791.2	3523.7	4256.2
57.5°	641.5	903.7	1165.8	1947.2	2728.6	3728.8	4729.1
60°	613.6	803.8	993.9	1769.6	2545.3	3780.1	5014.8
62.5°	568.1	684.2	800.3	1529.5	2258.7	3564.2	4869.7
65°	*522.4*	*576.6*	*630.8*	*1284.5*	*1938.3*	*3258.8*	*4579.3*
67.5°	457.8	473.2	488.6	1044.5	1600.4	2895.3	4190.1
70°	378.9	374.5	370.1	822.4	1274.7	2498.6	3722.5
72.5°	312.1	298.8	285.5	628.7	972.0	2068.6	3165.3
75°	245.8	233.7	221.7	456.3	691.0	1575.7	2460.5
77.5°	187.1	178.8	170.7	309.2	447.8	1102.9	1758.0
80°	134.7	131.4	128.0	199.2	270.5	710.6	1150.6
82.5°	92.7	92.0	91.4	122.5	153.7	411.3	668.8
85°	54.7	55.0	55.3	65.5	75.8	185.0	294.3
87.5°	23.6	23.9	24.2	27.2	30.1	60.6	91.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0


HS
SS

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.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

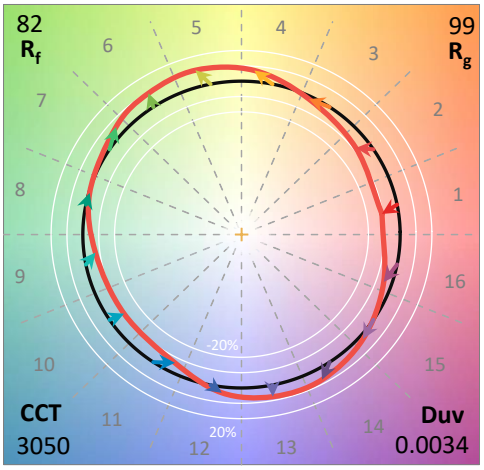
Test Information

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



Test Conditions

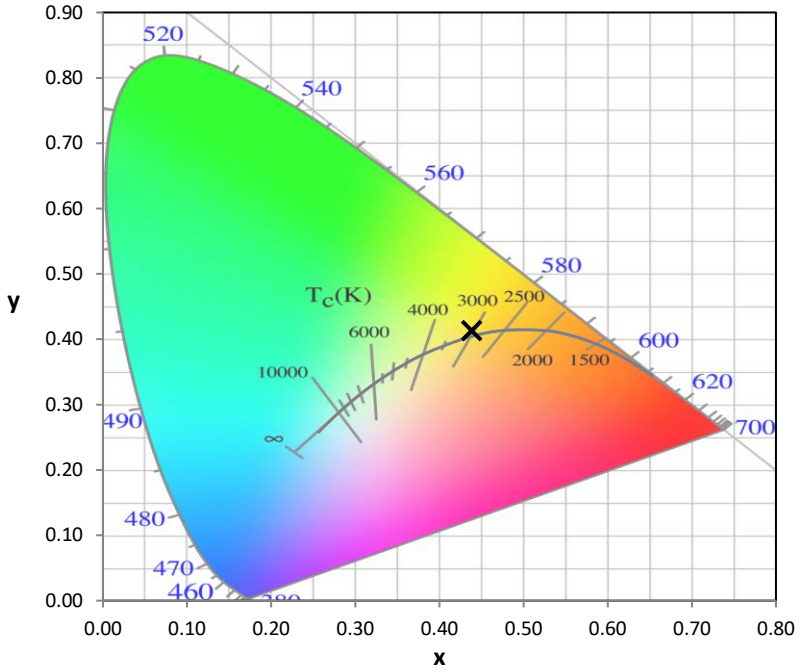
Stabilization Time:	20M
Operation Time:	1H 20M
Sphere Temperature (°C):	24.2

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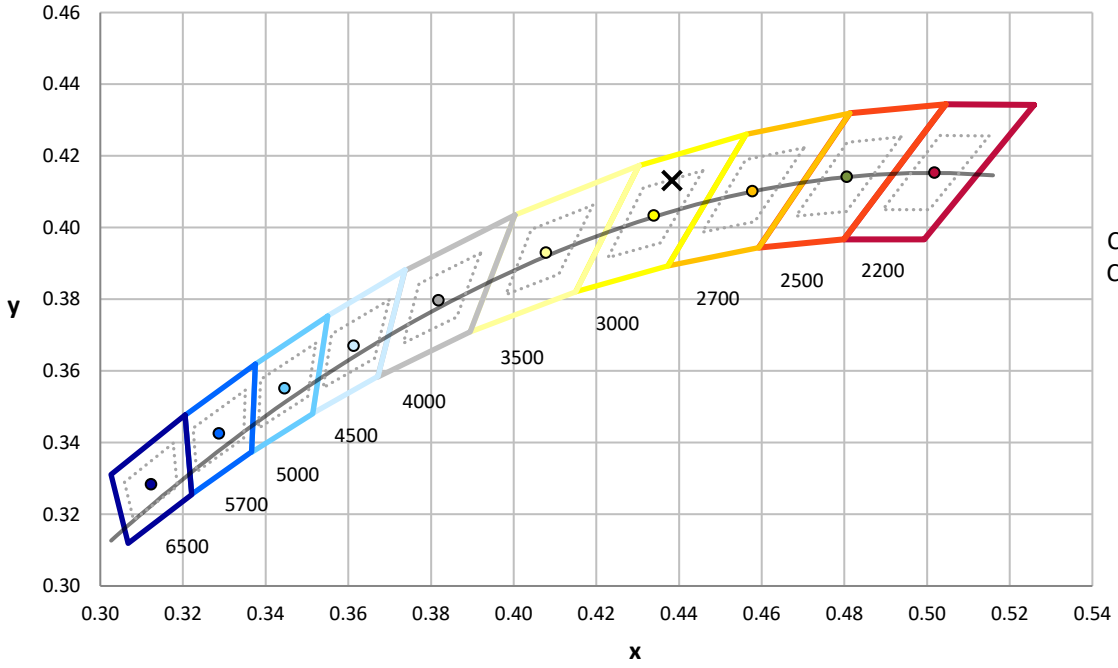
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085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

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CIE 1931 Chromaticity Diagram



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

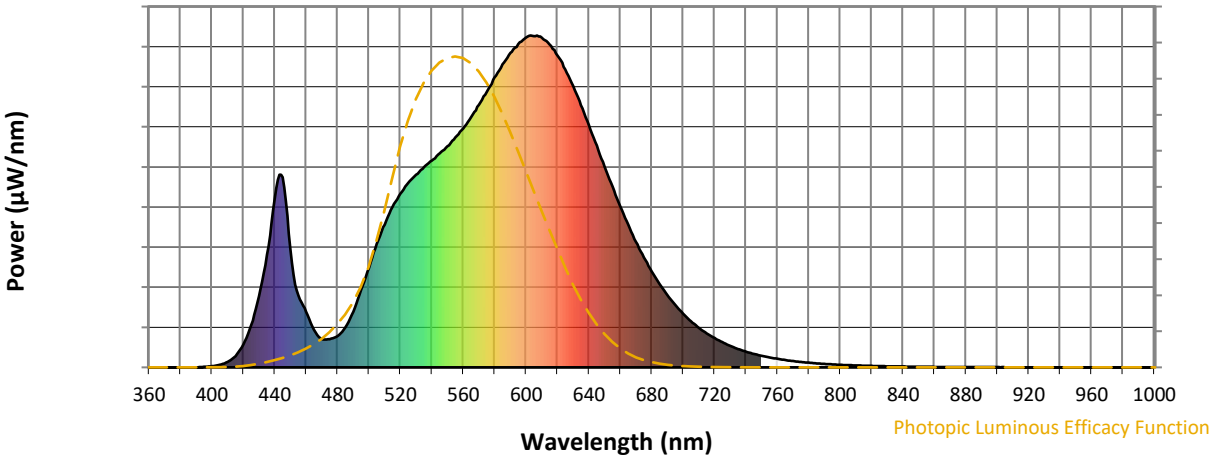


CCT = 3050K
CIE x = 0.4383
CIE y = 0.4131
Duv = 0.0034

Point lies inside the ANSI 3000K 4-step quadrangle

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Photopic Flux vs. Wavelength

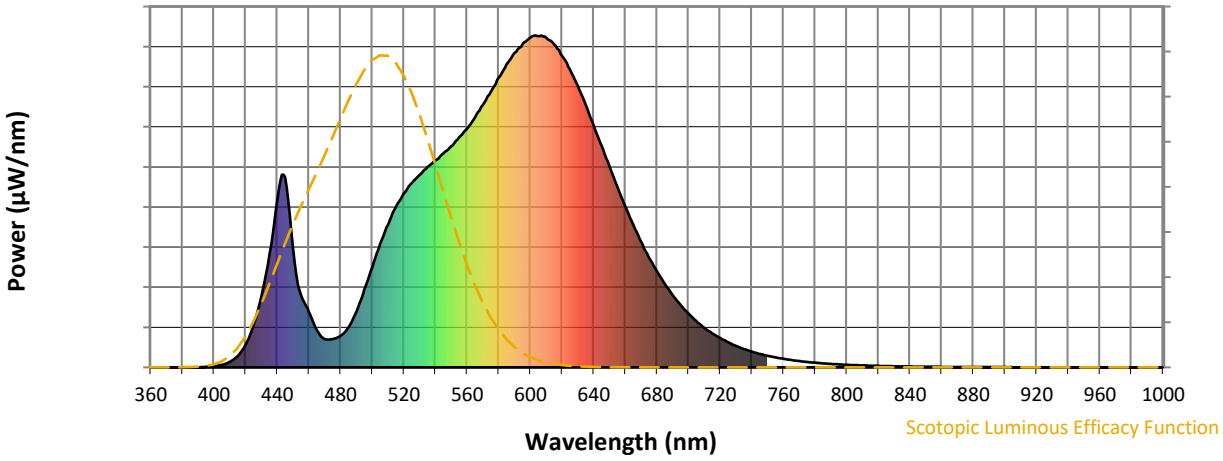


Photopic Lumens: NR

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			

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Scotopic Flux vs. Wavelength

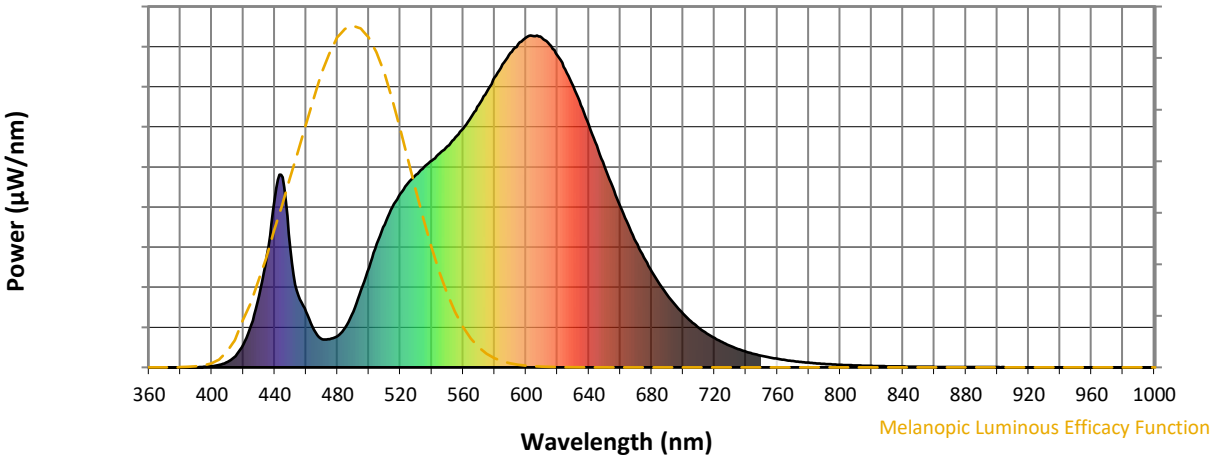


Scotopic Lumens: NR **S/P: 1.27**

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			

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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			

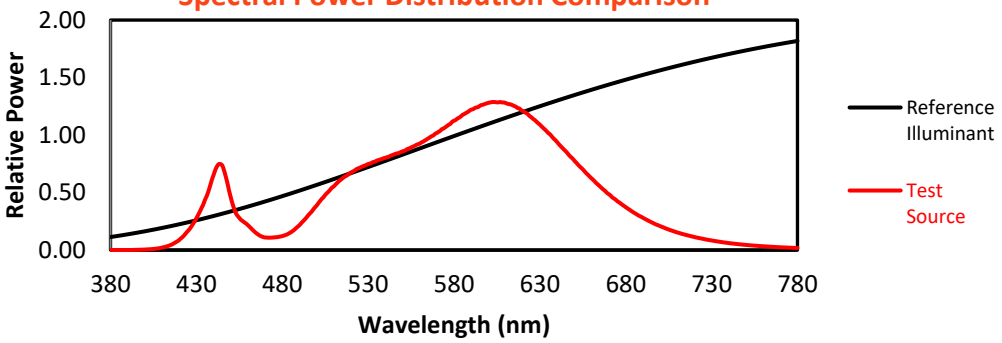
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TM-30-18

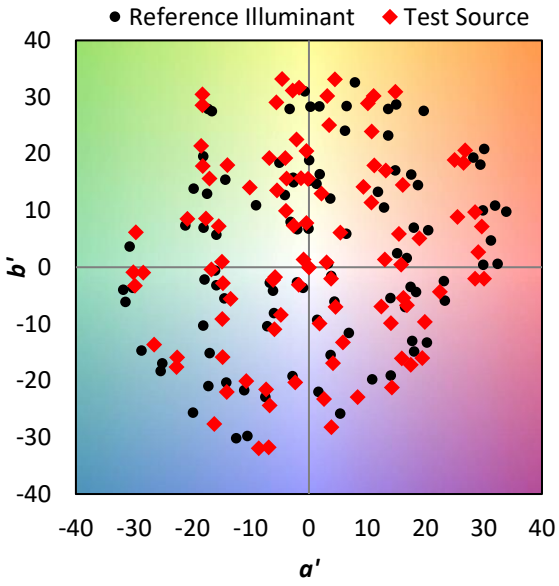
Summary

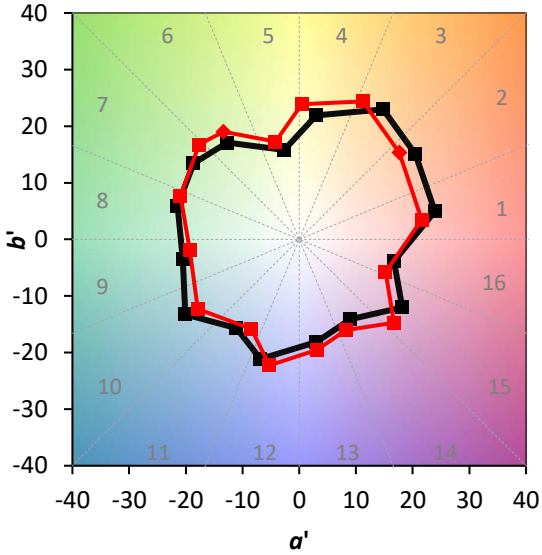
R_f = 81.5
R_g = 99.2
CIE R_a = 81.0
R_9 = 7.1

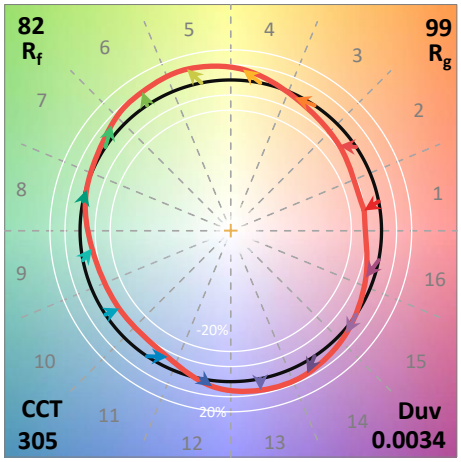
Spectral Power Distribution Comparison

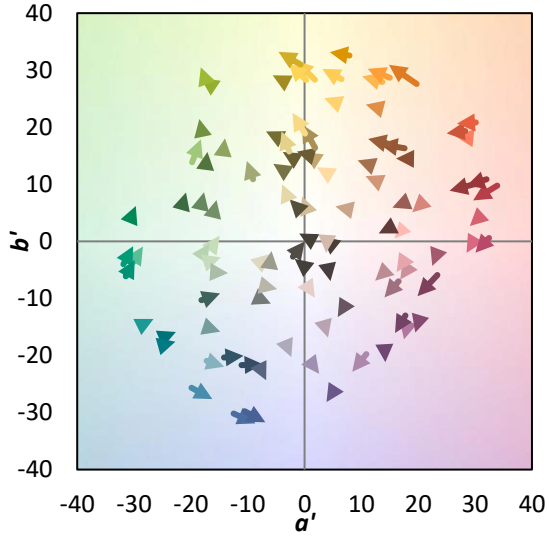


Color Vector Graphics







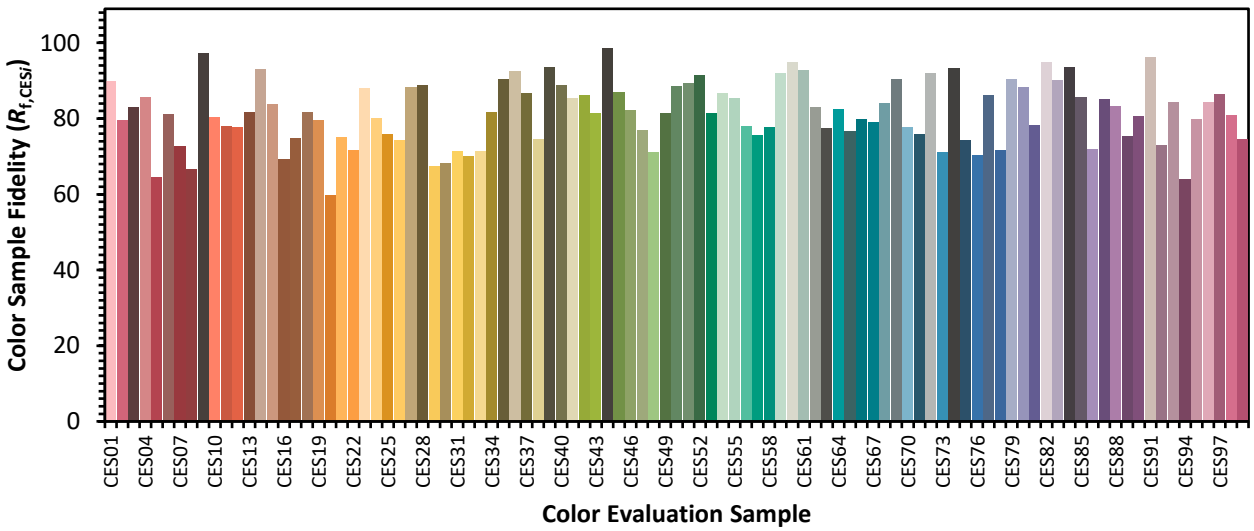


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Individual Sample Fidelity Index ($R_{f,i}$)

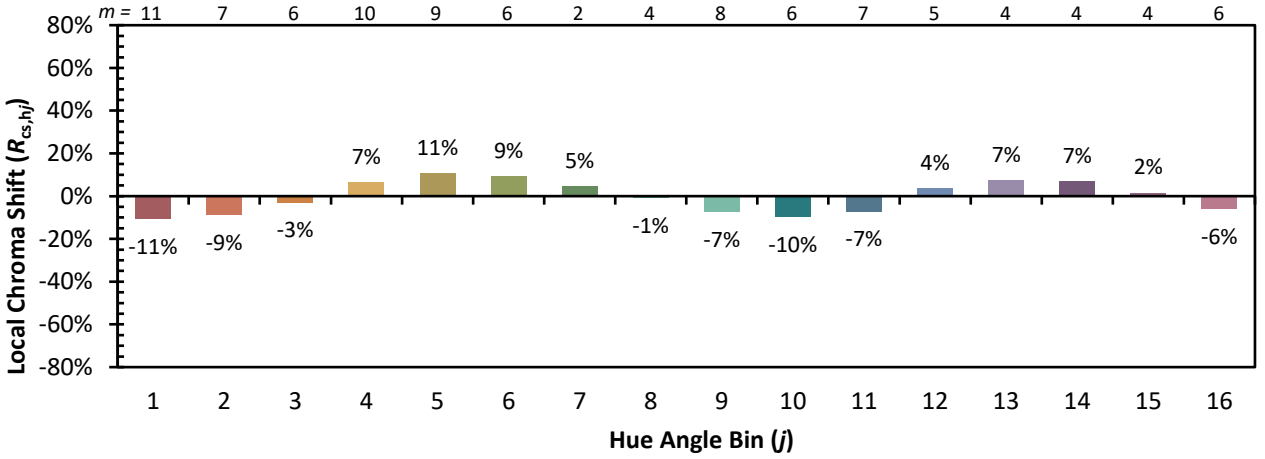
CES01 = 86	CES26 = 74	CES51 = 89	CES76 = 70
CES02 = 63	CES27 = 88	CES52 = 92	CES77 = 86
CES03 = 31	CES28 = 89	CES53 = 81	CES78 = 72
CES04 = 70	CES29 = 67	CES54 = 87	CES79 = 90
CES05 = 50	CES30 = 68	CES55 = 85	CES80 = 88
CES06 = 51	CES31 = 71	CES56 = 78	CES81 = 78
CES07 = 42	CES32 = 70	CES57 = 76	CES82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

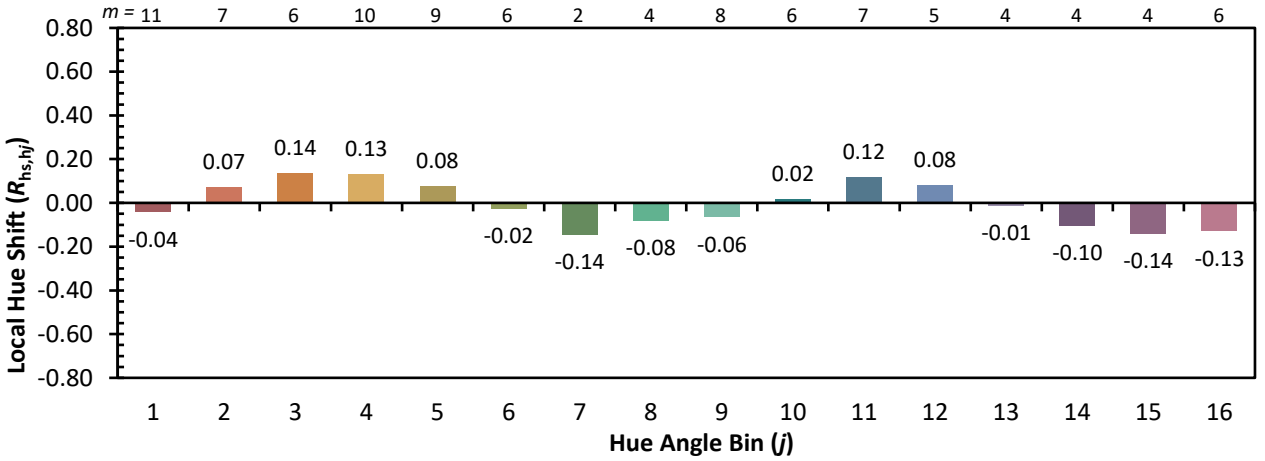


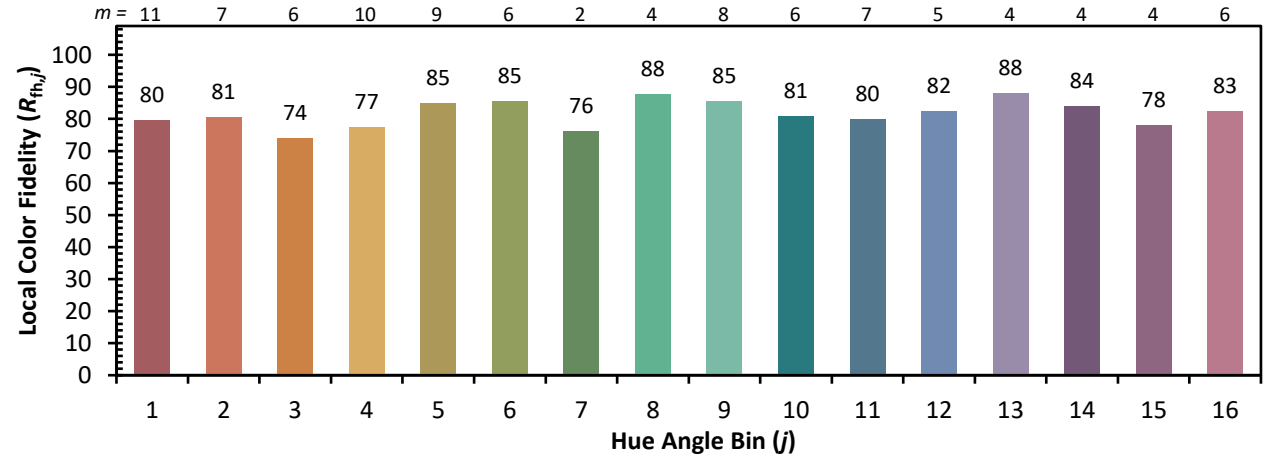
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Color Rendition by Hue-Angle Bin



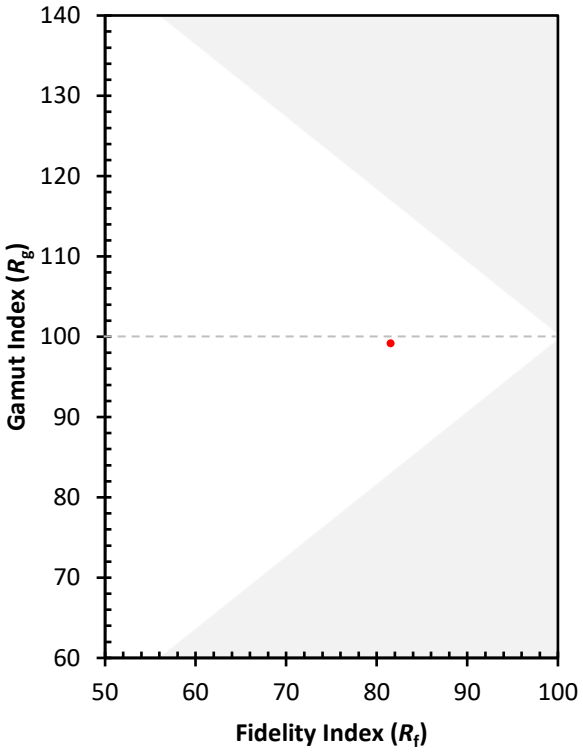


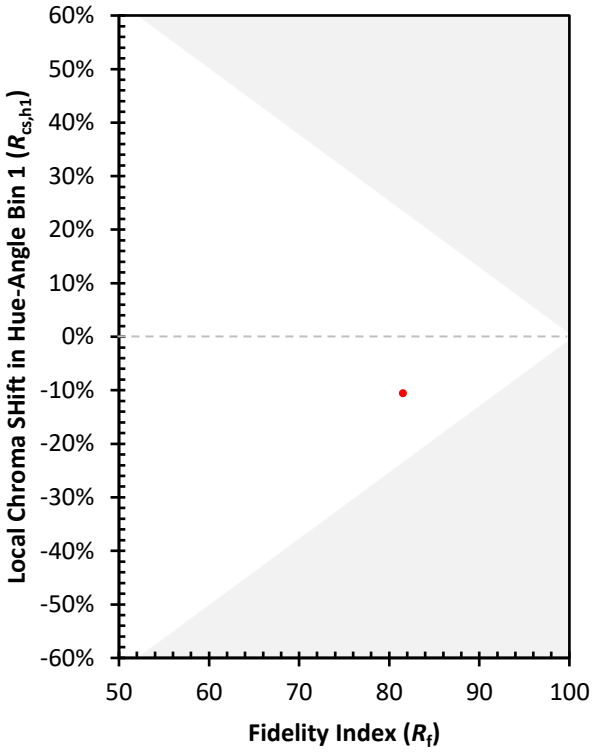


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Measure Comparisons





(END OF REPORT)