

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: P647781

Luminaire Tested: **GALN-SA2A-835-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-835-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6206.9 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

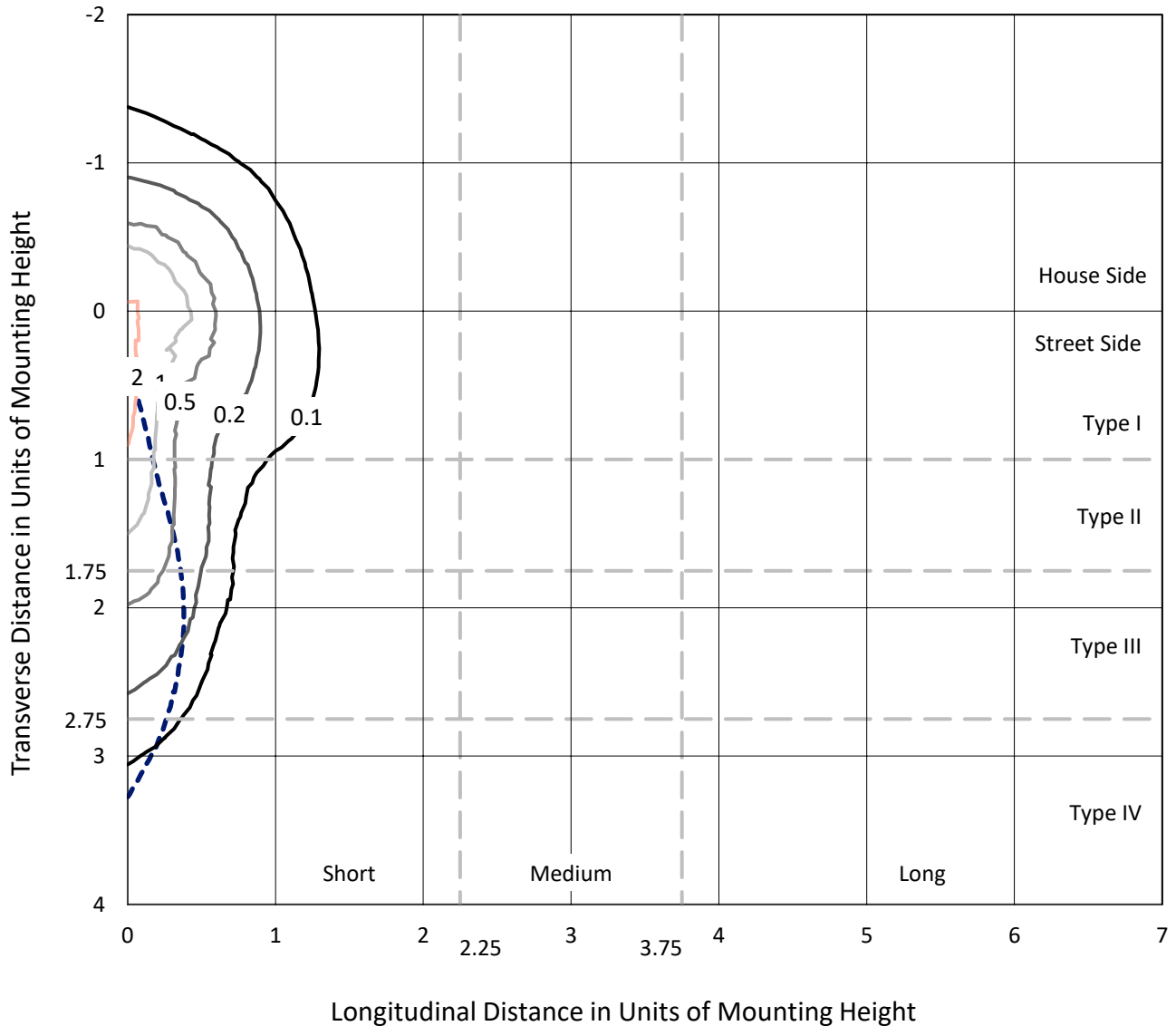
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

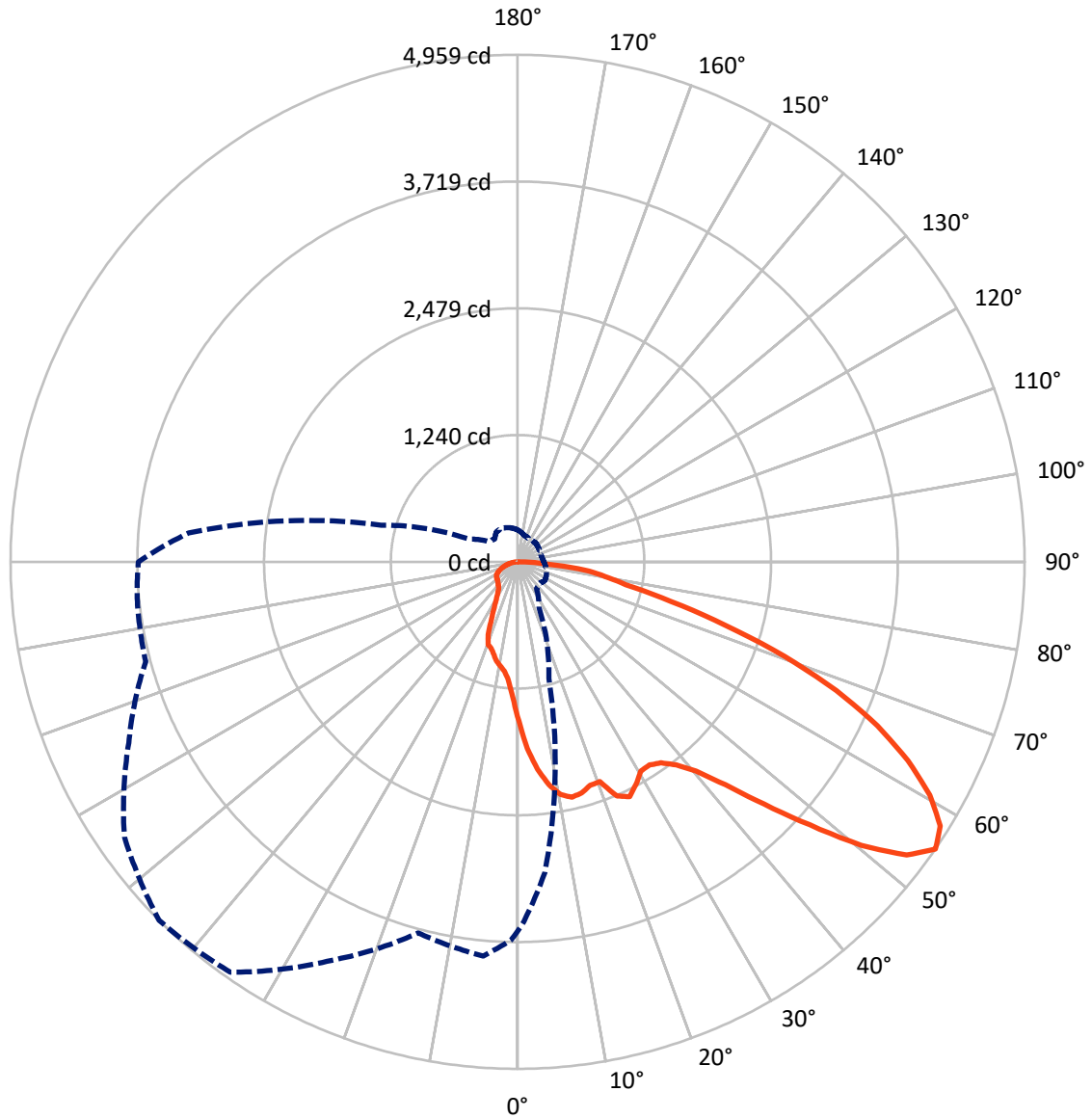
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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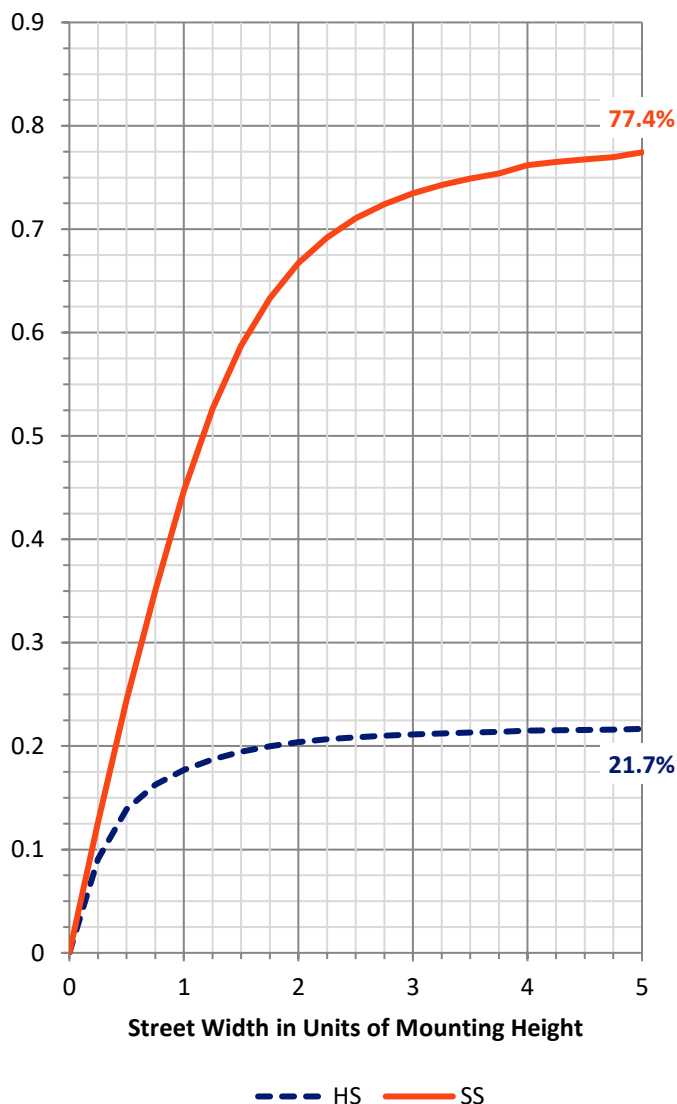
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1357.7	0.0	1357.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	4849.1	0.0	4849.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	6206.9	0.0	6206.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	2.1
10°-20°	350.2	5.6
20°-30°	605.1	9.7
30°-40°	703.2	11.3
40°-50°	981.1	15.8
50°-60°	1331.2	21.4
60°-70°	1266.5	20.4
70°-80°	684.2	11.0
80°-90°	153.3	2.5
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°	6206.9	100.0
0°-180°	6206.9	100.0

Coefficient of Utilization

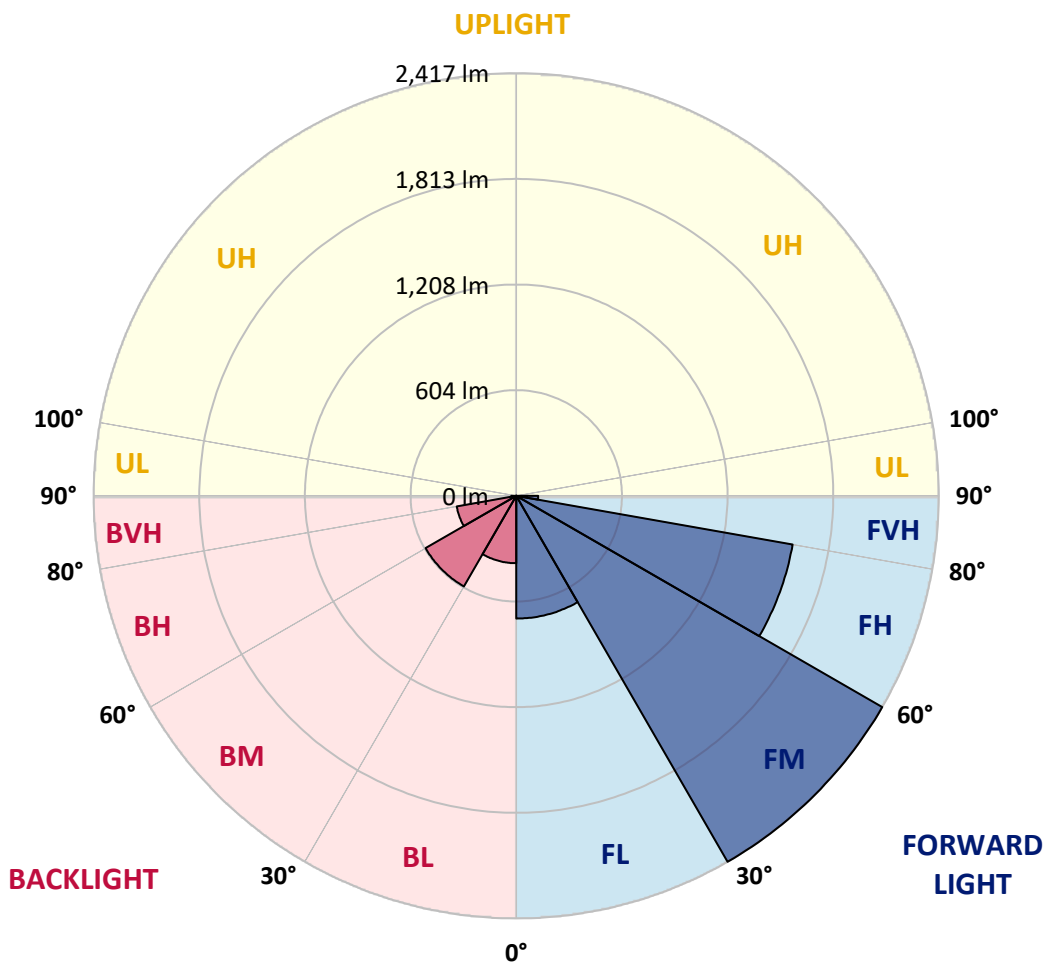


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	702.0	11.3			
FM (30°-60°)	2416.8	38.9			
FH (60°-80°)	1605.0	25.9			G1/1800
FVH (80°-90°)	125.3	2.0			G2/225
BL (0°-30°)	385.3	6.2	B1/500		
BM (30°-60°)	598.7	9.6	B1/1000		
BH (60°-80°)	345.7	5.6	B1/500		G1/500
BVH (80°-90°)	28.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	1730.5	1723.9	1705.5	1657.1	1608.4	1558.9	1520.8	1473.3	1423.8	1397.2	1363.2
5°	1754.2	1746.9	1703.4	1594.5	1495.8	1392.3	1309.5	1237.1	1207.5	1164.2	1129.3
7.5°	1698.6	1695.3	1630.1	1473.8	1338.6	1203.1	1109.3	1051.2	998.3	978.7	982.7
10°	1647.7	1634.7	1553.2	1348.9	1191.2	1081.0	1013.9	957.0	919.7	909.8	911.9
12.5°	1605.6	1588.0	1491.8	1264.9	1126.9	1038.9	953.3	893.9	859.9	869.4	901.3
15°	1597.0	1573.2	1465.9	1236.2	1091.7	978.3	884.5	816.1	790.7	811.2	862.4
17.5°	1652.7	1622.8	1510.2	1245.7	1058.1	916.4	801.3	723.2	701.9	734.6	801.3
20°	1831.6	1787.4	1648.1	1300.1	1054.9	885.7	753.0	674.4	683.4	745.7	815.3
22.5°	2162.5	2096.2	1889.8	1379.6	1072.0	877.9	743.2	702.3	751.8	804.6	850.5
25°	2228.0	2176.0	1933.1	1397.6	1068.3	872.6	771.0	791.5	846.8	873.0	857.1
27.5°	2264.8	2205.5	1930.3	1308.3	955.3	791.5	737.0	771.0	785.0	759.6	716.2
30°	2350.9	2289.0	1979.0	1214.5	786.6	587.2	514.7	500.8	510.2	515.1	499.6
32.5°	2469.2	2408.2	2070.7	1153.1	680.1	485.6	414.4	394.7	390.2	384.9	378.7
35°	2622.3	2528.5	2160.8	1113.8	636.3	449.2	383.7	368.6	362.4	355.0	348.4
37.5°	2777.9	2679.7	2274.7	1072.5	607.3	423.8	363.2	356.3	345.6	337.8	328.4
40°	2943.4	2833.2	2378.3	1036.4	579.0	407.5	348.4	347.7	333.7	324.7	313.7
42.5°	3086.7	2973.3	2470.8	1014.3	557.3	390.2	339.4	341.9	327.6	314.1	299.7
45°	3200.5	3089.2	2556.4	1014.3	539.7	373.0	337.8	336.2	321.9	305.1	288.7
47.5°	3300.4	3185.4	2640.0	1040.1	528.7	358.7	328.8	331.7	317.0	295.7	279.7
50°	3377.9	3276.3	2752.6	1080.2	517.6	347.3	317.3	332.9	312.8	290.7	272.3
52.5°	3476.5	3385.6	2888.1	1135.1	508.2	334.6	307.1	332.9	312.4	291.1	271.1
55°	3613.3	3517.5	3051.5	1180.5	493.1	322.7	298.1	323.5	311.2	289.1	267.8
57.5°	3709.1	3637.4	3166.9	1210.8	471.3	307.5	289.9	314.5	305.9	281.3	258.0
58°	3713.6	3643.6	3183.8	1217.8	466.0	304.7	287.8	310.4	303.4	278.0	254.7
60°	3662.0	3601.8	3187.0	1208.0	435.7	290.3	277.2	293.6	290.3	258.8	237.1
62.5°	3474.5	3410.2	3054.7	1128.1	395.6	272.7	260.8	271.1	263.7	231.8	211.7
65°	3207.9	3089.6	2782.9	1002.8	366.9	253.8	238.7	239.5	231.8	208.8	191.2
67.5°	2852.9	2720.6	2356.2	845.2	345.2	233.0	212.5	210.5	201.1	186.4	171.9
70°	2415.9	2325.4	1914.7	687.6	321.0	210.1	183.1	181.8	176.1	165.1	152.3
72.5°	1958.1	1843.1	1546.2	550.4	291.6	187.9	155.6	158.1	150.7	142.9	131.5
75°	1445.1	1369.7	1195.2	441.5	251.8	163.8	129.8	130.6	127.3	119.2	110.2
77.5°	951.7	929.1	855.0	289.9	193.7	130.2	106.0	106.9	104.5	97.0	87.6
80°	640.4	625.3	579.4	186.7	129.4	94.2	81.9	82.7	82.3	74.5	61.9
82.5°	394.7	388.2	373.4	126.1	89.7	67.6	54.0	56.5	61.0	52.4	42.2
85°	186.4	186.7	225.7	68.8	52.9	43.4	29.5	31.6	31.6	31.6	23.7
87.5°	24.2	25.4	31.1	29.0	19.3	16.4	10.6	9.0	7.8	10.3	7.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	1351.3	1343.1	1325.5	1321.4	1319.0	1325.9	1307.5	1312.4	1304.2	1327.1	1323.4
5°	1131.4	1132.2	1146.5	1155.9	1159.2	1155.9	1143.6	1122.4	1106.0	1099.5	1101.1
7.5°	975.0	989.3	1013.9	1041.3	1066.3	1073.6	1066.7	1026.2	982.0	954.1	945.1
10°	923.0	942.2	970.5	992.1	1014.3	1031.9	1035.6	1004.0	951.7	885.7	859.9
12.5°	925.8	952.0	979.1	986.0	984.0	991.0	987.7	982.4	948.0	864.0	821.0
15°	898.8	930.0	948.8	945.1	938.5	932.4	923.8	910.3	898.0	839.1	791.5
17.5°	836.6	868.5	884.1	885.3	885.3	883.7	862.8	857.9	856.2	827.6	798.5
20°	848.1	865.7	858.7	847.2	850.5	861.5	849.2	846.8	856.2	868.9	863.6
22.5°	854.6	848.5	796.0	745.3	733.8	768.2	775.2	802.6	840.7	886.5	916.4
25°	814.1	764.5	670.7	613.4	581.1	613.0	654.7	705.6	762.5	821.4	856.2
27.5°	680.6	642.9	575.7	524.1	495.9	500.8	536.4	582.7	635.5	675.3	700.6
30°	512.7	495.9	461.1	443.5	426.3	422.2	437.3	454.9	478.3	483.2	489.8
32.5°	377.6	375.1	377.2	371.4	368.1	367.7	363.2	367.3	369.7	372.6	366.9
35°	341.5	338.3	332.5	330.9	328.8	329.6	327.6	325.6	327.2	329.6	331.3
37.5°	323.1	318.1	310.0	307.1	307.1	308.3	305.1	304.3	307.1	314.9	319.0
40°	308.7	303.0	293.6	289.9	292.4	295.7	291.1	289.5	296.4	304.7	311.2
42.5°	295.3	290.7	281.7	277.7	279.7	285.8	279.3	278.0	287.0	296.1	303.8
45°	283.8	279.3	271.1	269.0	269.8	275.6	271.1	271.1	279.7	289.5	296.4
47.5°	274.8	269.0	263.7	262.1	262.9	266.1	265.4	265.4	273.5	283.8	290.7
50°	265.8	260.8	253.8	254.7	256.7	261.3	260.8	262.1	270.3	283.0	290.3
52.5°	261.7	254.3	246.5	247.3	253.5	258.8	257.1	258.4	267.8	291.6	302.2
55°	257.1	247.3	238.3	239.5	246.5	254.3	252.2	253.8	265.0	297.3	312.0
57.5°	248.5	237.1	227.2	228.1	238.3	246.5	243.2	245.3	258.4	291.1	306.7
58°	244.8	235.1	225.7	226.1	235.8	244.8	241.2	242.8	256.4	289.5	304.3
60°	229.3	223.5	215.4	215.8	225.2	233.0	231.0	232.6	245.7	277.7	288.7
62.5°	208.0	204.8	202.7	202.7	208.4	215.8	217.8	219.9	231.8	251.0	260.8
65°	185.1	185.1	185.5	185.5	189.2	198.6	199.8	205.1	216.2	225.7	233.0
67.5°	169.5	168.7	169.5	167.5	169.1	174.8	181.0	185.9	197.4	203.9	206.4
70°	149.5	149.1	149.5	146.6	148.6	153.5	157.6	165.8	177.7	182.6	183.8
72.5°	129.8	129.8	130.6	128.6	128.6	133.9	136.8	145.8	156.8	159.7	160.1
75°	109.3	110.6	110.6	107.7	108.5	111.8	115.5	122.9	133.1	135.1	135.1
77.5°	86.8	91.3	91.3	88.5	89.7	90.1	95.0	98.7	106.5	107.3	104.0
80°	63.0	67.6	71.3	68.8	70.9	68.4	71.3	73.7	81.5	77.8	72.5
82.5°	45.0	48.3	51.2	51.6	49.6	45.0	48.7	49.2	52.9	47.9	45.0
85°	25.0	27.9	31.6	29.9	26.6	23.7	25.0	25.8	25.4	24.2	22.6
87.5°	6.6	7.0	7.8	5.7	5.3	4.5	6.1	6.1	7.0	7.4	7.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	1326.3	1344.3	1383.2	1412.7	1448.8	1492.6	1544.2	1596.1	1652.3	1669.9	1694.4
5°	1097.5	1142.5	1161.3	1214.9	1268.1	1348.0	1433.2	1531.9	1640.0	1692.0	1741.9
7.5°	937.7	961.9	981.6	1020.9	1084.7	1181.8	1288.7	1411.9	1565.1	1640.8	1714.1
10°	851.7	854.2	878.4	927.1	982.7	1068.3	1169.5	1307.5	1478.2	1570.4	1656.4
12.5°	794.8	784.2	810.4	861.1	924.2	1003.3	1096.2	1227.7	1415.6	1510.2	1614.2
15°	744.9	728.0	747.7	799.8	861.9	954.9	1054.9	1194.1	1391.0	1501.2	1616.7
17.5°	746.0	699.8	706.7	750.6	812.4	907.0	1028.2	1192.8	1428.3	1555.2	1692.0
20°	838.2	764.1	732.6	740.7	800.5	903.7	1040.5	1250.1	1550.7	1735.8	1882.0
22.5°	928.7	884.1	833.3	816.5	849.2	957.4	1118.7	1385.7	1816.9	2095.7	2359.9
25°	897.2	935.3	922.5	898.8	906.2	995.9	1171.9	1497.1	2023.7	2337.7	2585.9
27.5°	717.9	787.0	800.9	800.5	803.4	877.1	1054.0	1422.2	2049.5	2384.0	2621.1
30°	504.5	510.6	518.0	532.4	545.4	611.4	824.7	1248.5	2038.0	2404.9	2642.4
32.5°	364.0	372.2	382.5	402.1	433.2	517.2	721.5	1193.2	2098.6	2491.3	2704.6
35°	332.9	342.3	352.2	374.7	404.2	481.9	680.6	1170.3	2198.1	2631.3	2816.5
37.5°	323.1	333.7	342.3	358.7	382.5	456.6	643.3	1154.8	2300.1	2779.6	2966.3
40°	316.1	328.4	335.4	348.4	364.9	433.2	610.1	1142.5	2398.7	2915.1	3086.7
42.5°	310.0	322.7	331.7	341.1	354.6	412.3	580.7	1130.2	2484.3	3046.6	3206.7
45°	302.6	318.6	330.0	337.4	349.3	394.7	558.1	1120.3	2581.8	3163.2	3327.9
47.5°	296.4	314.1	328.4	337.0	341.5	382.5	540.1	1133.9	2698.9	3285.3	3440.5
50°	296.9	313.7	331.7	345.2	333.3	372.2	529.1	1187.5	2851.2	3430.2	3529.4
52.5°	310.0	330.4	344.8	348.0	321.9	359.9	523.4	1281.3	3031.4	3558.4	3619.0
55°	324.7	346.0	361.6	359.6	315.7	344.4	522.1	1381.2	3228.8	3707.9	3735.7
57.5°	319.4	350.5	374.3	363.6	316.1	329.3	516.8	1461.9	3393.8	3819.6	3851.2
58°	317.7	348.9	375.9	362.8	314.9	324.7	515.5	1468.8	3416.7	3827.5	3867.6
60°	301.8	334.6	374.7	356.7	308.0	312.4	502.1	1491.3	3410.6	3787.3	3877.4
62.5°	272.7	299.7	346.4	326.7	286.7	296.1	471.8	1463.5	3244.4	3594.0	3733.7
65°	240.0	260.0	291.1	287.4	256.4	279.3	430.3	1353.3	2911.4	3280.4	3427.3
67.5°	215.4	231.8	251.4	246.1	230.5	256.7	385.7	1167.1	2538.0	2903.7	3088.7
70°	190.4	203.1	212.9	209.2	204.4	234.7	346.0	947.1	2180.1	2545.8	2725.1
72.5°	165.1	176.9	185.1	179.8	176.9	211.3	313.7	735.0	1721.9	2100.2	2330.8
75°	138.0	149.9	155.6	149.5	147.8	186.4	265.8	549.1	1292.0	1619.1	1818.1
77.5°	106.9	119.6	126.9	124.9	125.7	153.2	214.5	375.9	923.8	1103.6	1313.2
80°	74.9	88.9	93.8	91.7	97.5	116.7	151.5	238.7	637.1	716.2	864.0
82.5°	46.3	59.4	60.2	62.2	66.3	86.4	114.2	145.4	400.0	413.6	520.9
85°	23.3	28.3	30.3	33.6	37.3	52.9	65.1	90.1	257.5	194.9	291.1
87.5°	7.8	8.2	9.9	12.3	15.1	21.7	27.9	36.9	63.9	35.2	90.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7	1557.7
2.5°	1744.0	1778.8	1804.2	1827.5	1805.0	1802.9	1780.9	1745.2	1730.5	1730.5
5°	1846.8	1928.3	1994.2	2036.3	2018.3	1975.0	1903.3	1811.9	1762.8	1754.2
7.5°	1875.1	2036.0	2158.4	2201.8	2171.5	2075.7	1938.5	1784.5	1714.1	1698.6
10°	1857.8	2067.0	2246.8	2315.6	2273.4	2128.5	1941.4	1752.6	1665.8	1647.7
12.5°	1839.8	2071.2	2263.2	2362.7	2335.3	2171.1	1962.3	1731.7	1631.4	1605.6
15°	1852.9	2072.8	2243.1	2345.9	2363.6	2222.2	1996.6	1746.9	1624.4	1597.0
17.5°	1935.7	2103.9	2214.5	2297.6	2359.4	2291.8	2094.5	1819.3	1686.7	1652.7
20°	2108.5	2178.5	2230.8	2295.1	2394.6	2434.0	2294.7	2018.3	1861.5	1831.6
22.5°	2608.8	2596.1	2488.8	2487.6	2631.7	2789.4	2780.0	2422.9	2187.1	2162.5
25°	2796.3	2737.4	2582.2	2544.5	2608.0	2851.2	2816.0	2505.6	2287.8	2228.0
27.5°	2723.0	2576.9	2474.9	2466.3	2445.5	2675.1	2759.9	2539.2	2323.0	2264.8
30°	2718.6	2503.6	2357.8	2375.0	2395.0	2614.5	2791.0	2644.4	2413.0	2350.9
32.5°	2729.6	2513.8	2366.4	2369.7	2429.5	2623.6	2825.5	2759.1	2531.4	2469.2
35°	2774.2	2572.0	2421.3	2413.5	2506.9	2682.6	2884.0	2939.3	2693.2	2622.3
37.5°	2846.3	2687.9	2521.6	2519.5	2655.1	2789.0	2956.8	3121.1	2854.1	2777.9
40°	2952.4	2823.4	2700.1	2689.1	2856.5	2962.2	3051.5	3314.8	3041.3	2943.4
42.5°	3080.6	2986.0	2935.6	2979.4	3140.3	3156.7	3198.9	3493.7	3200.5	3086.7
45°	3199.3	3194.8	3264.8	3381.1	3474.9	3376.6	3352.9	3613.7	3324.1	3200.5
47.5°	3340.6	3462.6	3673.9	3844.2	3942.5	3632.5	3484.3	3691.9	3414.3	3300.4
50°	3483.9	3783.2	4120.6	4358.1	4379.0	3910.5	3574.8	3765.6	3496.2	3377.9
52.5°	3634.6	4039.1	4488.3	4764.3	4723.8	4152.6	3662.4	3815.6	3580.5	3476.5
55°	3765.6	4195.9	4693.9	4958.8	4899.5	4300.0	3757.0	3869.6	3700.9	3613.3
57.5°	3838.9	4209.1	4642.7	4874.1	4809.8	4271.3	3800.4	3909.8	3777.9	3709.1
58°	3849.5	4191.5	4597.3	4824.9	4759.4	4247.1	3800.0	3908.1	3782.8	3713.6
60°	3840.1	4077.2	4428.2	4630.8	4562.1	4095.6	3784.5	3877.4	3720.6	3662.0
62.5°	3752.9	3879.1	4136.2	4283.6	4264.0	3858.9	3720.6	3761.5	3530.9	3474.5
65°	3638.3	3608.8	3762.3	3866.8	3881.5	3681.7	3657.1	3510.9	3287.7	3207.9
67.5°	3499.1	3302.5	3302.1	3361.4	3386.0	3408.9	3524.8	3238.6	2937.2	2852.9
70°	3262.8	2830.3	2700.1	2770.2	2749.7	2943.4	3288.5	2856.1	2514.6	2415.9
72.5°	2829.5	2246.0	2037.6	2127.6	2076.0	2308.3	2877.4	2350.4	2079.3	1958.1
75°	2293.5	1680.1	1465.1	1547.8	1515.9	1750.9	2394.3	1707.2	1491.3	1445.1
77.5°	1780.9	1217.4	1092.5	1081.0	1104.8	1303.0	1756.3	1152.7	983.1	951.7
80°	1144.1	871.4	878.8	864.0	876.3	821.4	1066.3	735.4	665.8	640.4
82.5°	753.0	607.3	724.0	668.3	634.7	552.4	699.4	481.5	408.6	394.7
85°	513.1	447.2	407.0	311.2	366.5	425.5	524.5	259.2	205.5	186.4
87.5°	231.8	155.6	114.2	70.5	111.3	128.6	254.7	30.3	23.3	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)