

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: P646731

Luminaire Tested: **GALN-SA1C-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4000.4 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

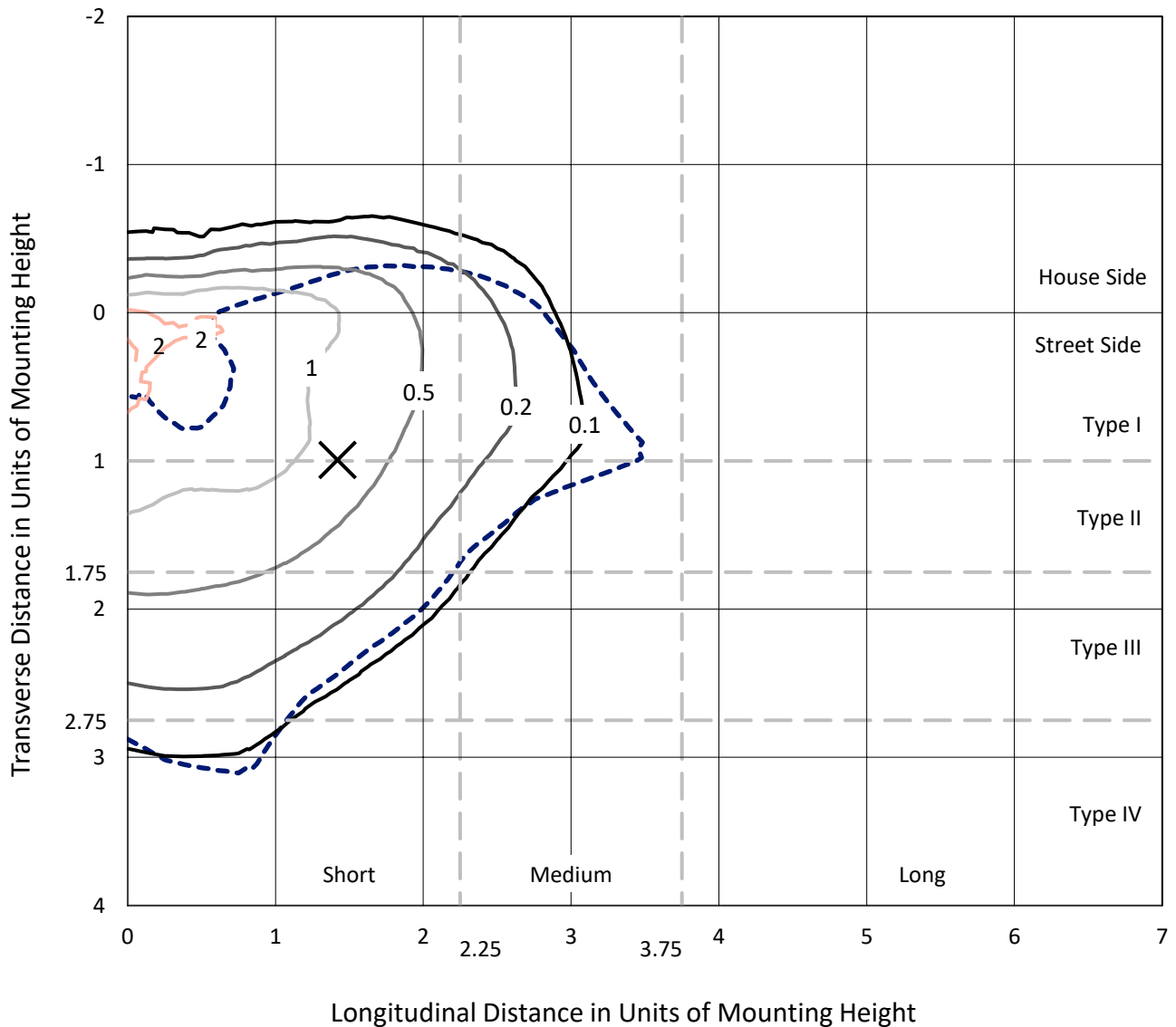
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

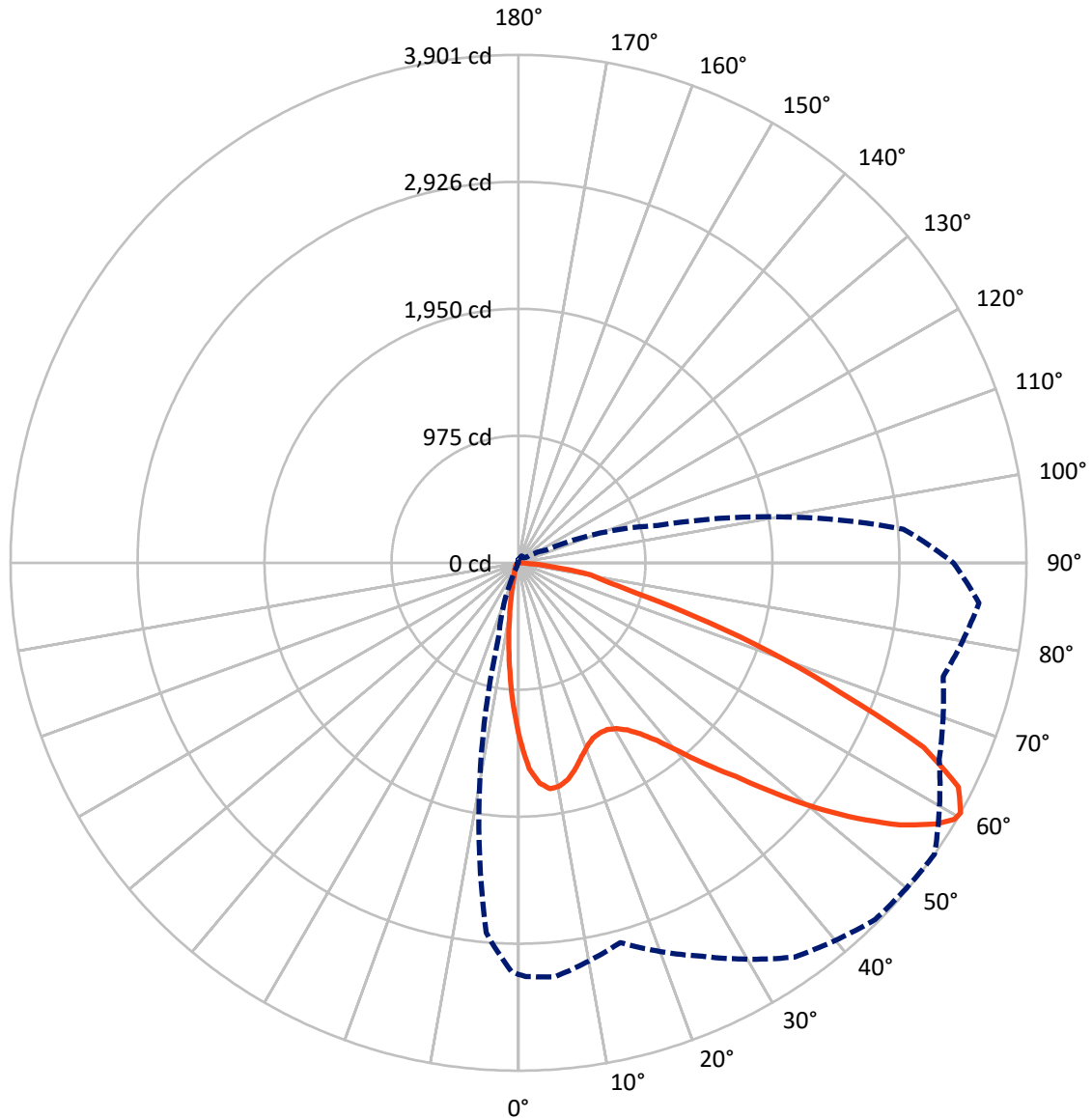
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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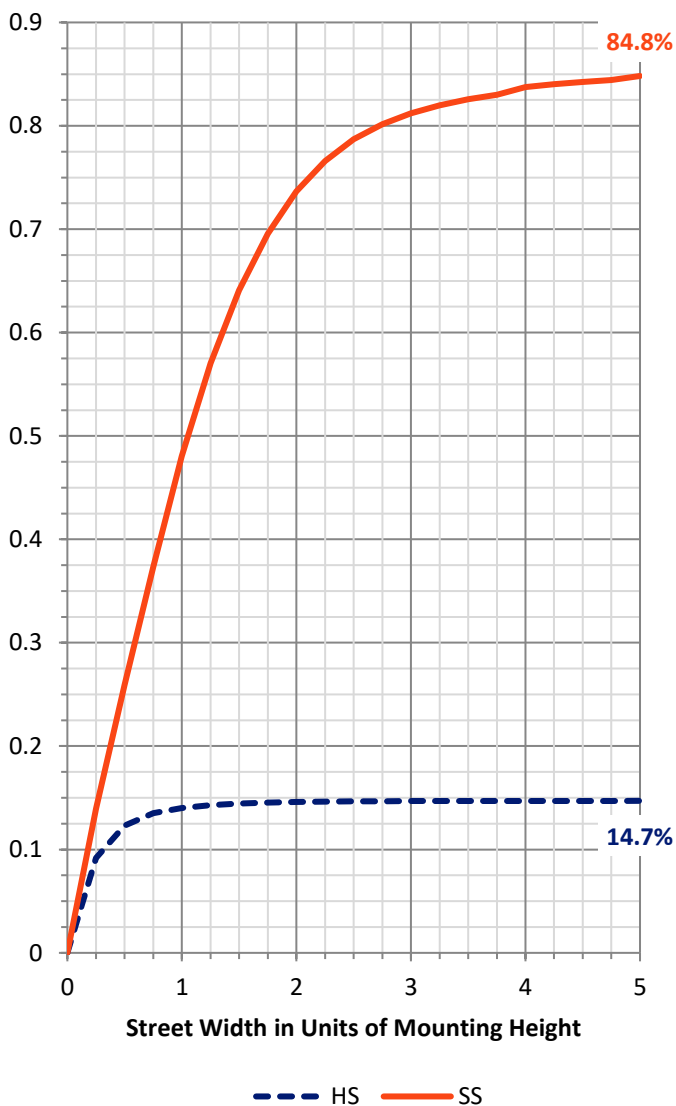
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	593.7	0.0	593.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	3406.7	0.0	3406.7
	% Fixture	85.2	0.0	85.2
Total	Lumens	4000.4	0.0	4000.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	2.5
10°-20°	197.5	4.9
20°-30°	292.4	7.3
30°-40°	435.8	10.9
40°-50°	638.2	16.0
50°-60°	921.4	23.0
60°-70°	969.3	24.2
70°-80°	398.7	10.0
80°-90°	46.7	1.2
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°	4000.4	100.0
0°-180°	4000.4	100.0

Coefficient of Utilization



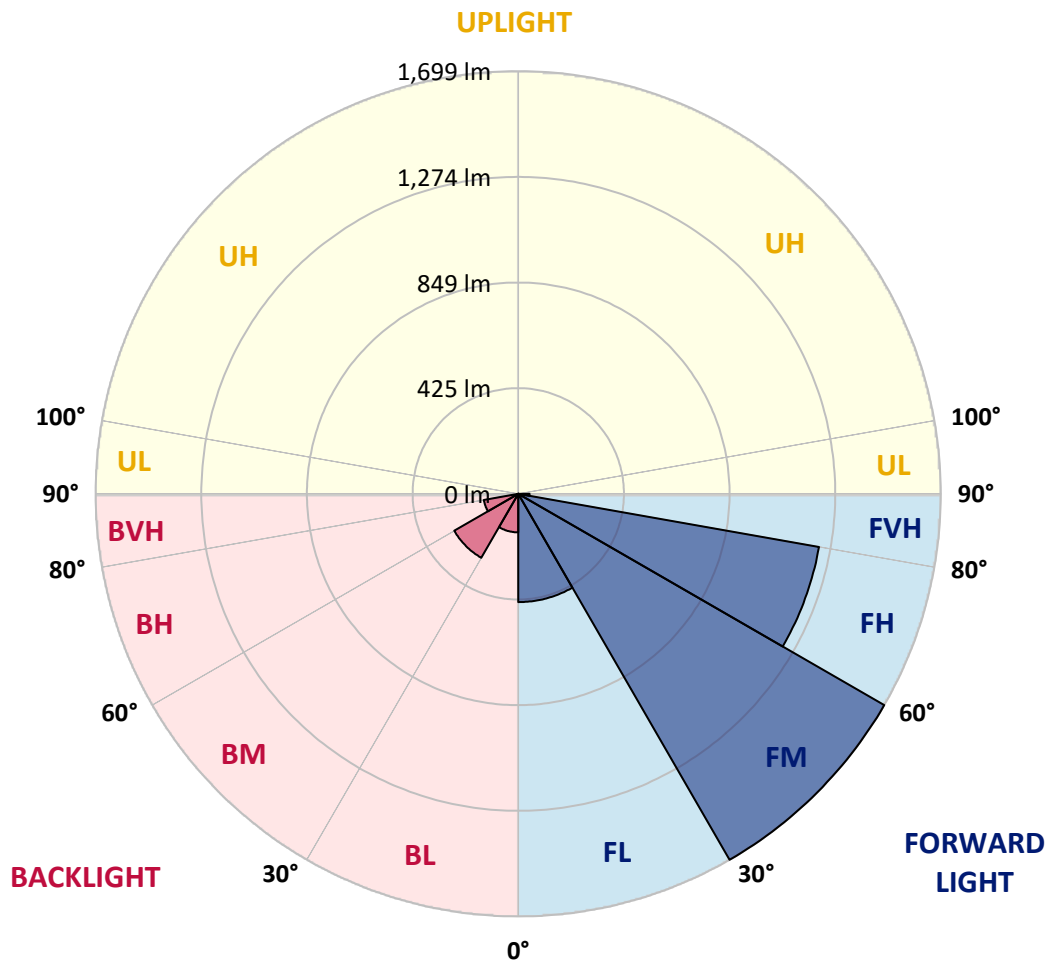
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	435.3	10.9			
FM (30°-60°)	1698.6	42.5			
FH (60°-80°)	1227.5	30.7			G1/1800
FVH (80°-90°)	45.3	1.1			G1/100
BL (0°-30°)	154.9	3.9	B1/500		
BM (30°-60°)	296.9	7.4	B1/1000		
BH (60°-80°)	140.5	3.5	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1479.8	1477.4	1499.2	1534.9	1570.9	1589.7	1586.0	1584.5	1554.6	1532.8	1486.9
5°	1476.7	1489.3	1528.5	1625.2	1698.5	1733.9	1744.3	1700.3	1642.1	1557.7	1453.6
7.5°	1388.4	1404.1	1467.8	1619.0	1749.2	1826.2	1823.5	1753.0	1632.9	1502.3	1353.9
10°	1278.8	1297.2	1372.1	1555.6	1724.6	1826.2	1831.8	1742.5	1593.2	1425.6	1269.6
12.5°	1201.4	1223.4	1306.2	1496.5	1661.2	1761.3	1767.7	1703.0	1563.3	1396.1	1223.7
15°	1175.3	1196.0	1280.0	1466.6	1593.7	1647.7	1646.1	1639.3	1551.6	1403.1	1226.1
17.5°	1220.2	1237.2	1332.0	1480.1	1530.6	1525.1	1533.1	1565.8	1554.0	1462.6	1303.7
20°	1336.3	1353.6	1455.5	1521.7	1482.3	1447.2	1450.9	1505.4	1576.8	1574.4	1425.0
22.5°	1496.2	1525.4	1617.8	1602.4	1475.8	1398.8	1391.2	1461.9	1615.6	1703.0	1588.9
25°	1698.5	1728.0	1800.0	1731.1	1507.5	1387.5	1380.4	1448.7	1662.7	1828.7	1773.3
27.5°	1868.4	1890.9	1962.7	1856.4	1554.3	1392.4	1380.7	1450.6	1700.9	1935.6	1928.8
30°	2004.5	2021.2	2063.3	1914.9	1594.7	1413.9	1400.4	1477.7	1717.8	1987.6	2054.7
32.5°	2114.1	2142.1	2155.4	1977.4	1652.6	1454.6	1431.5	1529.7	1759.1	2051.9	2186.8
35°	2239.5	2271.8	2254.8	2037.1	1728.9	1518.0	1489.7	1614.1	1821.6	2111.4	2340.2
37.5°	2398.3	2435.6	2369.4	2099.9	1809.6	1613.4	1600.2	1732.6	1916.5	2196.3	2504.6
40°	2562.8	2584.3	2480.5	2176.3	1908.7	1752.4	1765.0	1908.7	2040.5	2298.3	2679.4
42.5°	2691.2	2711.5	2594.8	2240.4	2010.0	1917.1	1969.7	2121.2	2182.8	2402.6	2810.0
45°	2789.4	2806.6	2673.9	2310.2	2146.8	2155.7	2255.1	2340.2	2325.4	2466.4	2910.7
47.5°	2865.7	2880.5	2734.9	2385.4	2351.5	2447.6	2599.7	2635.7	2473.2	2535.4	3001.9
50°	2897.2	2901.5	2754.0	2481.2	2584.0	2819.6	2978.1	2956.3	2642.5	2612.0	3098.8
52.5°	2938.1	2937.2	2808.5	2572.3	2802.6	3152.1	3310.4	3260.8	2834.0	2726.9	3207.8
55°	3045.6	3046.8	2925.1	2701.6	2988.9	3420.6	3590.0	3554.0	3036.0	2920.8	3335.0
57.5°	3176.1	3180.7	3091.1	2852.8	3166.8	3615.2	3798.7	3784.9	3309.1	3136.7	3455.1
59°	3193.1	3202.3	3169.7	2959.3	3272.5	3674.9	3870.1	3883.7	3455.4	3279.0	3520.1
60°	3162.2	3177.6	3192.4	3019.7	3334.4	3696.5	3874.4	3900.9	3565.3	3375.7	3549.7
62.5°	3028.0	3052.4	3126.5	3205.4	3411.7	3629.4	3736.8	3792.2	3701.4	3629.7	3552.4
65°	2852.2	2864.8	2972.0	3238.3	3261.7	3315.9	3349.1	3420.3	3537.9	3727.5	3425.2
67.5°	2564.0	2601.3	2732.4	3047.1	2819.3	2755.2	2746.9	2676.1	2981.5	3494.2	3111.8
70°	2118.1	2134.8	2296.4	2498.1	2127.6	2029.1	2068.5	2042.1	2311.2	3008.0	2504.6
72.5°	1601.8	1639.3	1797.3	1991.2	1447.8	1320.0	1428.7	1418.9	1736.0	2417.4	1720.6
75°	1139.6	1163.9	1365.3	1558.3	1014.0	859.1	898.2	934.8	1211.9	1908.7	1016.7
77.5°	783.0	804.0	955.2	1030.6	739.6	708.5	648.2	683.6	794.1	1132.5	553.3
80°	472.3	471.4	570.9	589.4	515.1	598.3	501.9	563.4	480.1	484.7	214.3
82.5°	306.7	303.6	349.1	380.6	286.7	301.5	202.3	291.6	312.8	135.1	67.7
85°	137.3	143.2	167.8	221.4	125.6	66.8	41.3	89.6	133.3	68.0	0.0
87.5°	14.2	11.1	29.6	53.9	17.2	1.9	6.2	3.1	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1465.7	1447.8	1394.5	1344.6	1301.8	1249.5	1215.6	1162.4	1130.0	1120.2	1121.7
5°	1406.8	1355.5	1254.1	1173.2	1082.9	1031.5	953.3	878.1	837.5	822.5	815.7
7.5°	1283.7	1228.6	1106.3	979.1	882.4	792.2	734.1	667.9	622.6	585.4	578.9
10°	1192.3	1119.8	968.4	831.7	755.3	687.6	629.4	563.1	509.9	467.4	455.7
12.5°	1137.5	1056.4	887.4	772.8	700.5	630.9	555.1	478.5	424.0	378.1	356.9
15°	1127.6	1033.6	864.6	730.7	641.4	557.3	456.6	373.8	317.7	274.4	261.1
17.5°	1187.0	1074.6	861.2	686.6	564.1	444.9	340.2	271.5	208.4	184.2	174.6
20°	1292.9	1146.9	860.9	635.6	484.7	342.7	239.0	177.0	151.5	139.8	134.3
22.5°	1437.4	1245.5	877.3	591.5	402.1	252.8	170.6	141.0	126.2	116.7	114.6
25°	1613.8	1391.5	917.3	561.6	339.0	198.3	140.7	120.7	108.4	104.1	102.3
27.5°	1770.5	1531.2	961.3	530.9	293.8	175.5	130.5	110.6	100.7	97.3	94.5
30°	1905.7	1658.1	982.6	490.2	257.5	160.7	132.4	118.2	105.3	95.1	90.5
32.5°	2018.3	1755.4	996.4	453.3	226.6	131.5	104.7	91.5	85.6	81.9	78.8
35°	2159.4	1860.7	988.1	432.3	210.9	119.8	95.4	78.8	69.0	61.5	58.5
37.5°	2307.2	1966.0	973.6	415.1	203.8	111.2	90.8	74.9	64.0	56.4	52.4
40°	2460.2	2063.6	956.7	399.0	197.4	105.6	88.1	71.4	60.7	52.4	48.0
42.5°	2600.3	2158.8	949.9	388.6	186.9	106.6	85.9	69.9	57.2	48.6	44.9
45°	2713.6	2249.0	959.2	383.0	175.5	105.0	86.5	68.0	54.5	46.2	42.5
47.5°	2834.6	2376.5	989.0	377.5	164.4	97.6	91.1	67.7	53.2	44.6	40.6
50°	2975.3	2539.7	1057.4	363.9	150.9	89.6	97.0	67.4	51.8	42.8	38.8
52.5°	3162.9	2725.0	1127.9	340.2	131.2	81.9	92.7	66.5	48.6	40.6	36.6
55°	3331.3	2920.3	1187.7	312.3	106.3	70.8	83.5	62.5	43.4	37.0	33.3
57.5°	3400.9	3030.4	1185.8	273.4	85.0	62.2	68.7	57.2	37.9	32.7	29.6
59°	3375.4	3016.6	1146.1	244.8	77.6	57.6	57.0	56.7	35.4	29.6	27.1
60°	3339.3	2966.1	1103.2	230.6	73.0	54.5	52.4	56.1	33.3	27.7	25.2
62.5°	3201.4	2756.7	961.3	206.6	66.8	46.2	41.9	47.4	29.6	24.0	21.8
65°	3001.6	2435.0	813.9	199.8	65.0	38.2	34.8	33.9	25.2	20.4	18.5
67.5°	2611.7	2060.5	659.2	195.2	65.6	32.0	30.5	25.5	20.9	16.9	15.7
70°	2091.0	1606.7	539.8	190.0	66.2	26.2	25.5	20.4	16.9	14.2	12.9
72.5°	1270.4	952.4	424.9	165.1	64.4	20.9	22.8	15.4	12.3	10.2	9.6
75°	785.5	651.8	263.6	128.4	42.5	15.4	16.0	9.6	8.3	6.5	6.5
77.5°	455.1	411.7	94.2	46.2	18.8	9.2	7.0	4.9	4.6	2.7	2.7
80°	188.8	151.2	32.7	15.7	10.2	4.3	1.6	0.3	0.0	0.0	0.0
82.5°	55.1	48.9	8.9	7.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1095.6	1085.4	1080.8	1096.5	1082.0	1100.5	1086.3	1092.4	1110.6	1118.7	1139.3
5°	820.0	809.5	804.6	828.3	827.1	838.7	837.5	848.3	857.5	836.9	858.2
7.5°	571.2	564.1	575.8	594.3	614.0	607.5	607.5	593.0	598.0	594.9	594.0
10°	434.5	410.1	403.9	403.4	410.8	412.3	403.9	384.0	391.3	393.5	406.5
12.5°	341.8	323.0	294.3	281.4	278.0	280.8	253.4	235.8	244.1	239.3	251.9
15°	245.1	229.7	212.7	198.3	194.3	188.8	158.9	138.0	135.5	136.4	138.6
17.5°	174.9	164.4	164.4	149.0	140.7	124.1	109.0	99.8	98.8	99.8	101.3
20°	129.0	123.5	122.9	118.9	109.6	98.5	88.1	86.2	85.6	87.1	87.8
22.5°	111.2	105.3	100.4	100.1	91.5	82.2	77.3	74.9	75.2	75.7	77.3
25°	99.4	93.3	88.1	85.0	78.8	72.3	67.7	66.5	66.5	67.4	67.7
27.5°	91.1	83.5	78.8	74.5	69.0	63.4	59.4	58.5	57.9	58.5	60.1
30°	85.3	77.6	71.7	65.3	61.0	55.7	52.4	51.1	50.8	51.1	52.4
32.5°	73.0	68.4	63.7	57.9	52.6	49.3	45.6	43.4	43.4	44.0	45.3
35°	55.1	52.6	52.4	50.8	46.5	42.8	38.5	36.3	36.3	37.6	38.2
37.5°	48.6	44.0	43.4	42.8	41.0	36.0	32.0	30.1	29.8	30.8	32.0
40°	44.3	39.1	36.3	35.7	36.0	30.5	26.2	24.4	24.4	24.7	25.8
42.5°	41.0	34.8	29.8	29.3	30.5	25.5	21.2	19.4	19.4	19.4	20.9
45°	38.2	31.1	25.2	22.2	24.0	20.9	17.2	15.4	14.8	15.4	16.0
47.5°	36.3	28.3	22.2	17.9	17.9	16.6	13.9	11.7	11.1	11.4	12.3
50°	34.8	25.8	18.8	14.5	12.9	13.2	10.5	8.9	8.3	8.3	9.2
52.5°	32.3	23.4	16.3	12.3	9.9	8.9	7.7	6.5	6.2	6.5	7.0
55°	29.3	21.2	14.2	10.2	7.7	6.2	5.6	4.6	4.3	4.6	5.6
57.5°	25.8	17.9	11.4	8.0	5.2	4.0	3.7	3.1	2.4	2.7	3.4
59°	23.7	16.0	9.9	6.5	4.0	2.7	2.7	2.2	1.6	1.9	2.7
60°	22.8	14.8	8.3	5.6	3.4	2.2	2.2	1.6	0.9	1.3	2.2
62.5°	19.4	12.3	6.5	3.4	1.6	0.3	0.9	0.3	0.0	0.3	0.9
65°	16.3	9.9	4.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	13.5	7.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5	1354.5
2.5°	1140.5	1184.5	1211.6	1262.7	1315.1	1355.5	1406.0	1451.2	1470.0	1479.8
5°	879.7	941.0	993.0	1070.9	1143.3	1231.3	1320.6	1425.9	1466.2	1476.7
7.5°	617.4	679.9	734.4	824.6	927.8	1045.7	1179.3	1312.9	1371.7	1388.4
10°	445.8	512.7	579.2	669.4	765.8	893.6	1032.8	1198.1	1265.8	1278.8
12.5°	281.4	353.2	461.3	572.7	674.6	777.4	923.2	1102.9	1177.8	1201.4
15°	163.2	216.7	298.4	443.7	573.3	709.4	868.3	1067.2	1151.0	1175.3
17.5°	109.3	127.8	183.8	295.0	466.2	646.6	854.5	1096.5	1189.1	1220.2
20°	92.1	100.4	120.1	179.9	359.0	590.5	858.2	1175.9	1297.5	1336.3
22.5°	81.0	88.7	101.3	129.4	250.6	521.0	875.7	1289.5	1446.6	1496.2
25°	71.4	79.2	90.2	107.1	168.4	440.6	914.2	1455.8	1643.9	1698.5
27.5°	63.4	70.5	80.0	94.5	129.7	351.0	948.4	1617.8	1824.1	1868.4
30°	56.1	61.9	71.1	82.2	107.7	270.7	965.6	1759.4	1955.2	2004.5
32.5°	48.6	54.2	63.1	72.0	88.7	206.3	953.6	1863.5	2082.7	2114.1
35°	41.6	47.4	54.8	63.1	76.7	166.5	893.6	1980.5	2214.8	2239.5
37.5°	35.7	40.6	48.3	54.8	69.3	133.3	820.9	2085.8	2362.9	2398.3
40°	30.1	35.1	42.8	48.6	63.7	105.0	755.3	2202.8	2519.1	2562.8
42.5°	24.7	30.5	37.3	46.8	54.8	80.0	675.9	2297.6	2636.4	2691.2
45°	19.7	26.2	33.6	46.5	47.8	61.0	599.2	2371.6	2740.1	2789.4
47.5°	15.7	22.2	32.3	43.4	39.1	48.3	555.5	2448.8	2826.3	2865.7
50°	12.6	18.5	33.9	38.2	32.7	41.0	554.2	2535.0	2870.9	2897.2
52.5°	10.2	15.1	28.7	29.3	27.7	36.0	587.5	2632.1	2916.5	2938.1
55°	8.6	12.6	18.8	21.5	25.0	32.7	612.5	2781.4	3025.3	3045.6
57.5°	6.8	10.8	14.5	17.2	22.2	29.8	615.8	2896.6	3162.9	3176.1
59°	5.9	9.2	12.9	15.4	20.4	28.0	602.0	2903.6	3171.8	3193.1
60°	4.9	8.3	11.4	14.5	18.8	26.5	586.9	2852.2	3138.6	3162.2
62.5°	3.7	6.5	8.3	11.7	15.4	22.8	515.4	2672.7	3011.4	3028.0
65°	2.4	4.6	6.2	8.6	12.0	19.7	420.0	2439.9	2815.0	2852.2
67.5°	1.6	3.4	4.9	6.5	9.9	16.6	299.3	2092.3	2540.0	2564.0
70°	0.9	2.2	3.7	5.2	7.7	13.2	177.7	1653.8	2113.2	2118.1
72.5°	0.6	1.6	2.4	3.7	6.2	12.0	86.2	1078.0	1543.0	1601.8
75°	0.3	0.9	1.6	2.7	4.9	9.9	41.3	720.2	1122.7	1139.6
77.5°	0.0	0.3	0.9	1.9	3.7	7.7	24.0	472.9	765.5	783.0
80°	0.0	0.0	0.6	1.6	2.7	4.9	14.5	279.0	463.7	472.3
82.5°	0.0	0.0	0.3	1.3	1.9	3.7	7.4	122.5	303.6	306.7
85°	0.0	0.0	0.3	1.3	1.6	2.4	2.7	16.6	134.8	137.3
87.5°	0.0	0.0	0.3	1.6	1.6	1.6	1.6	0.9	11.4	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)