

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: P647776

Luminaire Tested: **GALN-SA2A-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647776
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-SA2A-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5170.9 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

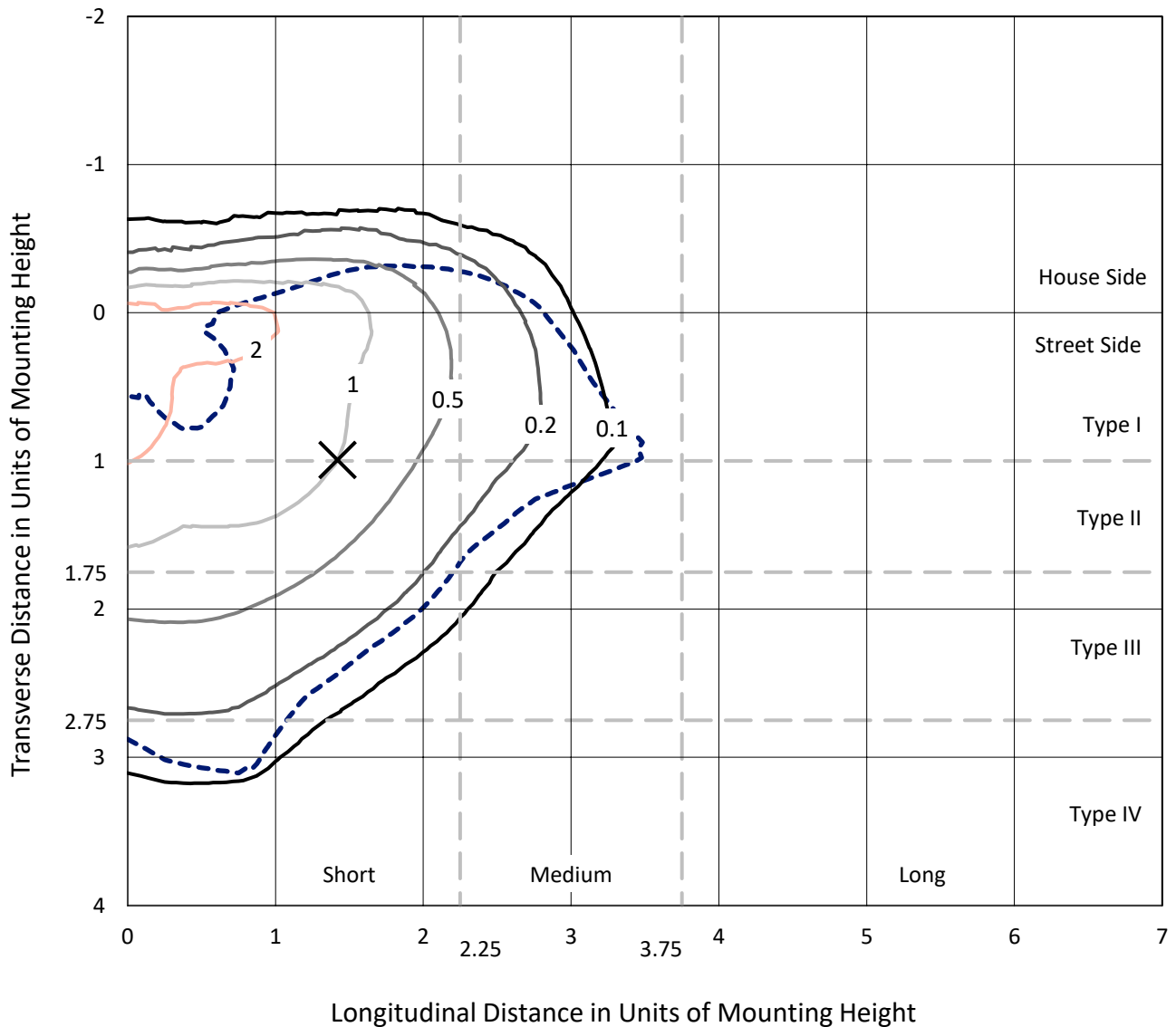
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

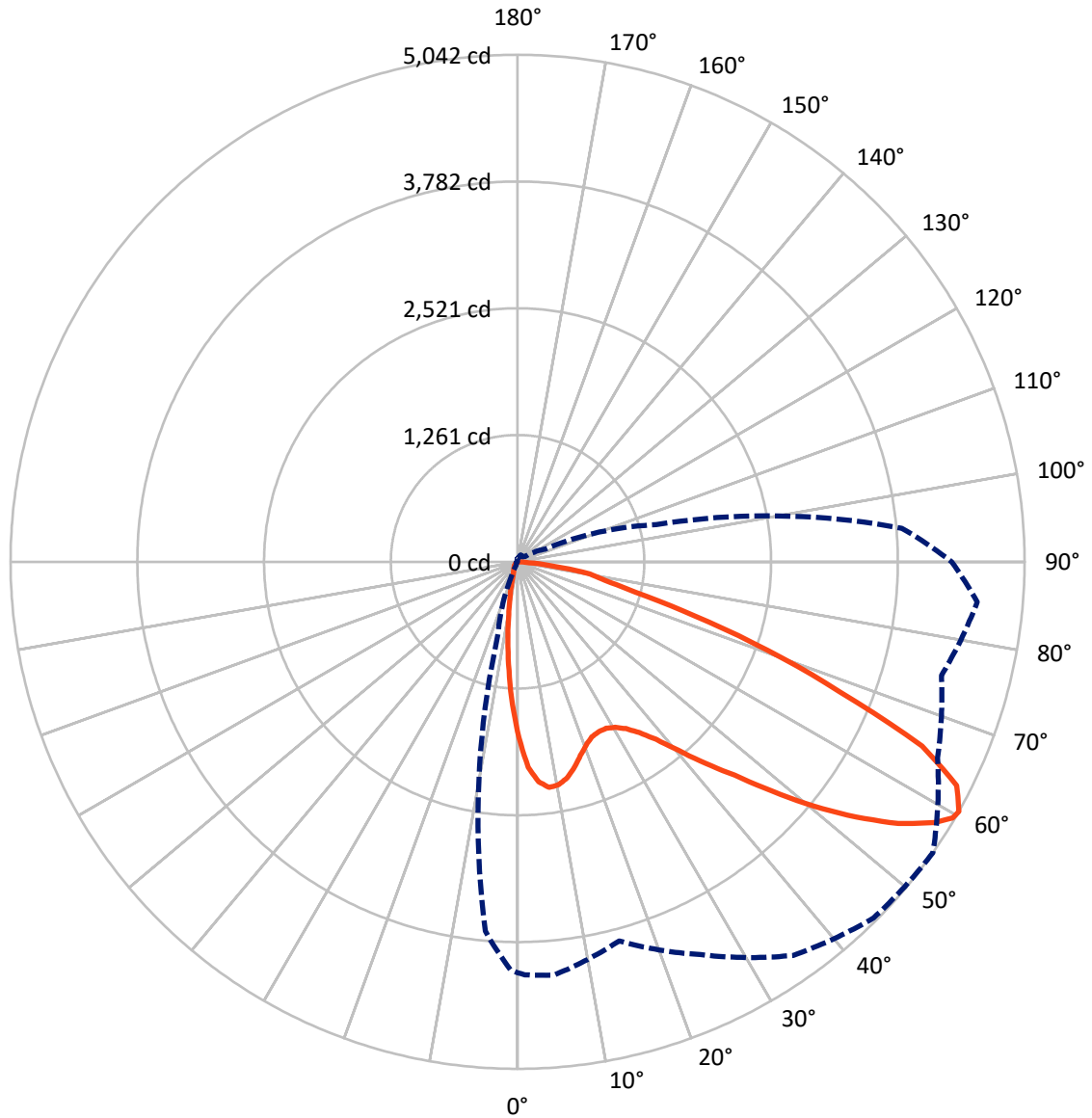
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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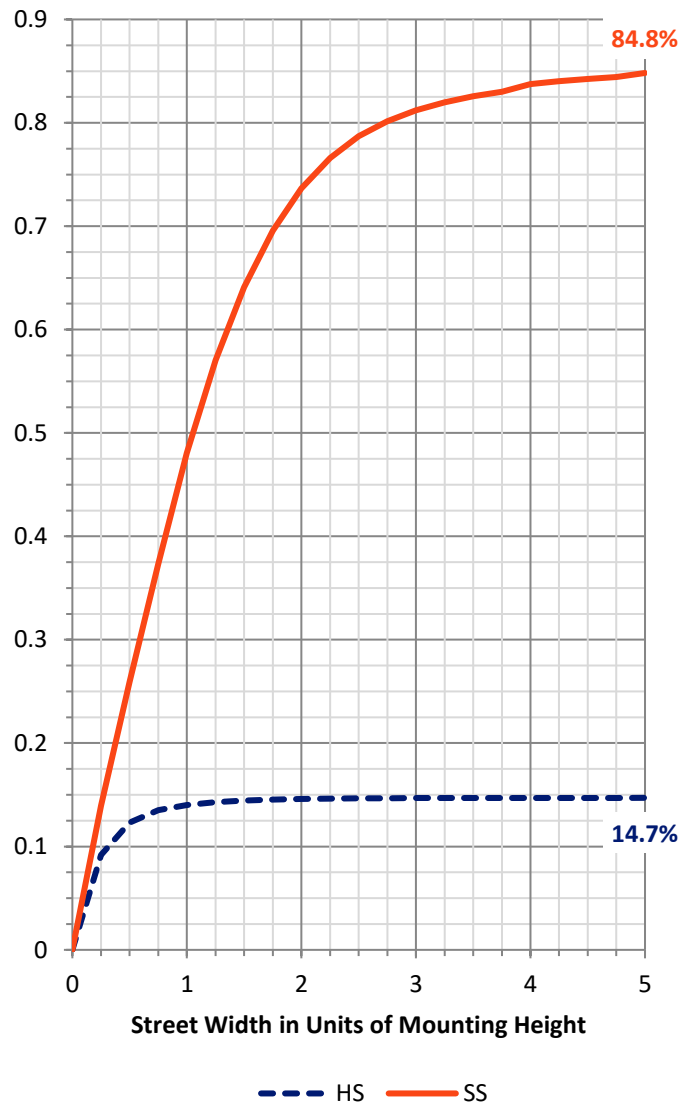
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	767.4	0.0	767.4
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	4403.5	0.0	4403.5
	% Fixture	85.2	0.0	85.2
Total	Lumens	5170.9	0.0	5170.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	2.5
10°-20°	255.3	4.9
20°-30°	377.9	7.3
30°-40°	563.3	10.9
40°-50°	825.0	16.0
50°-60°	1191.0	23.0
60°-70°	1252.9	24.2
70°-80°	515.4	10.0
80°-90°	60.4	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°	5170.9	100.0
0°-180°	5170.9	100.0

Coefficient of Utilization



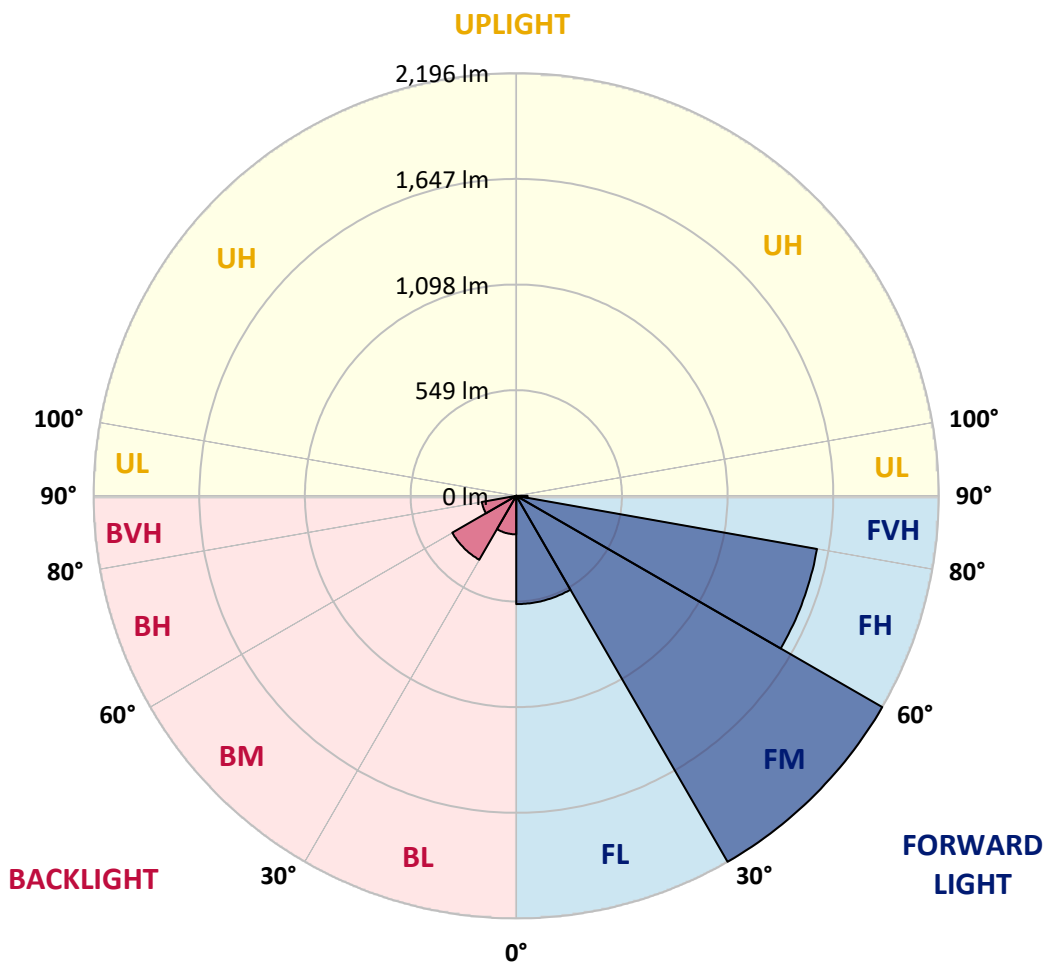
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	562.7	10.9			
FM (30°-60°)	2195.6	42.5			
FH (60°-80°)	1586.7	30.7			G1/1800
FVH (80°-90°)	58.6	1.1			G1/100
BL (0°-30°)	200.2	3.9	B1/500		
BM (30°-60°)	383.8	7.4	B1/1000		
BH (60°-80°)	181.6	3.5	B1/500		G1/500
BVH (80°-90°)	1.8	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°	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9
2.5°	1912.9	1909.7	1937.9	1984.1	2030.6	2055.0	2050.2	2048.2	2009.6	1981.3	1922.0
5°	1908.9	1925.2	1975.7	2100.7	2195.5	2241.2	2254.7	2197.8	2122.6	2013.6	1879.0
7.5°	1794.6	1814.9	1897.4	2092.7	2261.1	2360.6	2357.1	2265.9	2110.7	1941.9	1750.1
10°	1652.9	1676.8	1773.6	2010.7	2229.3	2360.6	2367.8	2252.4	2059.3	1842.8	1641.0
12.5°	1553.1	1581.3	1688.4	1934.3	2147.3	2276.7	2285.0	2201.4	2020.7	1804.6	1581.7
15°	1519.3	1545.9	1654.6	1895.7	2060.2	2129.8	2127.8	2119.0	2005.6	1813.7	1584.9
17.5°	1577.4	1599.2	1721.8	1913.3	1978.6	1971.4	1981.7	2023.9	2008.8	1890.6	1685.2
20°	1727.4	1749.7	1881.4	1967.0	1916.0	1870.7	1875.4	1945.9	2038.2	2035.0	1842.0
22.5°	1933.9	1971.8	2091.2	2071.3	1907.7	1808.2	1798.2	1889.8	2088.4	2201.4	2053.7
25°	2195.5	2233.7	2326.8	2237.7	1948.7	1793.5	1784.3	1872.6	2149.3	2363.8	2292.2
27.5°	2415.2	2444.2	2536.9	2399.7	2009.2	1799.8	1784.7	1875.1	2198.7	2501.9	2493.2
30°	2591.1	2612.6	2667.1	2475.2	2061.3	1827.7	1810.1	1910.1	2220.5	2569.2	2655.9
32.5°	2732.7	2769.0	2786.1	2556.0	2136.1	1880.2	1850.4	1977.3	2273.8	2652.3	2826.7
35°	2894.8	2936.6	2914.6	2633.2	2234.8	1962.2	1925.6	2086.4	2354.6	2729.1	3024.9
37.5°	3100.1	3148.3	3062.7	2714.4	2339.1	2085.6	2068.5	2239.6	2477.3	2839.0	3237.5
40°	3312.6	3340.5	3206.4	2813.2	2467.3	2265.1	2281.4	2467.3	2637.6	2970.8	3463.5
42.5°	3478.6	3504.9	3354.1	2895.9	2598.2	2478.0	2546.1	2741.9	2821.5	3105.7	3632.3
45°	3605.6	3627.9	3456.3	2986.3	2775.0	2786.5	2915.0	3024.9	3005.8	3188.1	3762.4
47.5°	3704.3	3723.4	3535.2	3083.4	3039.6	3163.8	3360.4	3407.0	3196.8	3277.2	3880.2
50°	3744.9	3750.5	3559.8	3207.2	3340.1	3644.6	3849.6	3821.4	3415.8	3376.4	4005.6
52.5°	3797.9	3796.7	3630.3	3325.0	3622.7	4074.5	4279.0	4215.0	3663.3	3524.8	4146.5
55°	3936.8	3938.3	3781.1	3492.2	3863.6	4421.5	4640.4	4593.9	3924.4	3775.5	4310.9
57.5°	4105.5	4111.5	3995.6	3687.6	4093.6	4673.1	4910.3	4892.4	4277.5	4054.5	4466.1
59°	4127.4	4139.3	4097.1	3825.3	4230.1	4750.3	5002.7	5020.1	4466.5	4238.5	4550.1
60°	4087.6	4107.5	4126.6	3903.3	4310.1	4778.2	5008.2	5042.4	4608.6	4363.4	4588.3
62.5°	3914.1	3945.5	4041.5	4143.3	4410.0	4691.4	4830.3	4902.0	4784.5	4691.8	4591.9
65°	3686.8	3703.1	3841.6	4185.9	4216.1	4286.2	4329.2	4421.1	4573.2	4818.3	4427.5
67.5°	3314.3	3362.4	3532.0	3938.7	3644.2	3561.4	3550.7	3459.1	3854.0	4516.7	4022.3
70°	2737.9	2759.4	2968.4	3229.1	2750.3	2622.9	2673.9	2639.6	2987.5	3888.2	3237.5
72.5°	2070.5	2119.0	2323.2	2574.0	1871.4	1706.3	1846.8	1834.0	2244.0	3124.8	2224.1
75°	1473.1	1504.5	1764.8	2014.3	1310.7	1110.5	1161.0	1208.4	1566.5	2467.3	1314.3
77.5°	1012.2	1039.2	1234.6	1332.1	956.0	915.8	837.8	883.6	1026.5	1463.9	715.2
80°	610.6	609.3	737.9	761.8	665.9	773.4	648.8	728.3	620.5	626.5	277.0
82.5°	396.4	392.4	451.3	492.0	370.5	389.6	261.5	376.9	404.4	174.8	87.5
85°	177.5	185.1	216.9	286.2	162.4	86.4	53.3	115.8	172.3	87.9	0.0
87.5°	18.3	14.3	38.2	69.7	22.3	2.3	8.0	4.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9
2.5°	1894.5	1871.4	1802.6	1738.1	1682.8	1615.2	1571.3	1502.5	1460.7	1448.0	1450.0
5°	1818.5	1752.0	1621.1	1516.4	1399.8	1333.4	1232.3	1135.1	1082.6	1063.1	1054.3
7.5°	1659.3	1588.1	1430.1	1265.7	1140.7	1024.1	948.8	863.3	804.8	756.6	748.2
10°	1541.1	1447.6	1251.8	1075.1	976.3	888.8	813.5	728.0	659.1	604.2	589.1
12.5°	1470.2	1365.6	1147.1	999.0	905.5	815.5	717.6	618.5	548.1	488.7	461.3
15°	1457.6	1336.1	1117.7	944.5	829.0	720.4	590.2	483.2	410.8	354.6	337.6
17.5°	1534.4	1389.0	1113.3	887.6	729.1	575.1	439.8	351.0	269.4	238.0	225.7
20°	1671.2	1482.6	1112.9	821.5	626.5	443.0	308.9	228.9	195.8	180.7	173.5
22.5°	1857.9	1610.0	1133.9	764.6	519.8	326.7	220.5	182.3	163.2	150.9	148.1
25°	2086.0	1798.6	1185.7	726.0	438.2	256.4	181.9	156.1	140.1	134.5	132.2
27.5°	2288.6	1979.3	1242.6	686.1	379.7	226.8	168.7	142.9	130.1	125.7	122.2
30°	2463.3	2143.3	1270.0	633.6	332.8	207.7	171.2	152.8	136.1	123.0	117.0
32.5°	2609.0	2269.1	1288.0	585.8	292.9	170.0	135.3	118.2	110.6	105.9	101.9
35°	2791.2	2405.2	1277.2	558.8	272.6	154.8	123.4	101.9	89.2	79.6	75.6
37.5°	2982.3	2541.3	1258.5	536.5	263.5	143.7	117.4	96.7	82.8	72.8	67.7
40°	3180.2	2667.5	1236.6	515.8	255.1	136.6	113.8	92.3	78.4	67.7	62.1
42.5°	3361.3	2790.5	1227.9	502.3	241.6	137.7	111.0	90.4	74.0	62.9	58.1
45°	3507.7	2907.1	1239.8	495.1	226.8	135.7	111.8	87.9	70.5	59.7	54.9
47.5°	3664.1	3071.9	1278.4	488.0	212.5	126.1	117.8	87.5	68.8	57.7	52.5
50°	3846.0	3282.8	1366.8	470.4	195.0	115.8	125.4	87.1	66.9	55.4	50.1
52.5°	4088.4	3522.4	1457.9	439.8	169.5	105.9	119.8	86.0	62.9	52.5	47.4
55°	4306.1	3774.8	1535.1	403.6	137.3	91.5	107.9	80.8	56.1	47.8	43.0
57.5°	4396.1	3917.3	1532.7	353.4	109.9	80.4	88.8	74.0	48.9	42.2	38.2
59°	4363.0	3899.3	1481.4	316.4	100.3	74.5	73.6	73.2	45.8	38.2	35.0
60°	4316.4	3834.0	1426.1	298.1	94.4	70.5	67.7	72.4	43.0	35.8	32.7
62.5°	4138.2	3563.4	1242.6	267.1	86.4	59.7	54.1	61.3	38.2	31.0	28.3
65°	3879.8	3147.5	1052.0	258.3	84.0	49.3	44.9	43.8	32.7	26.2	23.9
67.5°	3376.0	2663.5	852.1	252.4	84.8	41.4	39.4	33.0	27.1	21.9	20.3
70°	2702.9	2076.8	697.7	245.5	85.6	33.8	33.0	26.2	21.9	18.3	16.7
72.5°	1642.2	1231.0	549.3	213.4	83.2	27.1	29.4	19.9	15.9	13.2	12.4
75°	1015.3	842.6	340.7	166.0	54.9	19.9	20.7	12.4	10.7	8.4	8.4
77.5°	588.3	532.1	121.8	59.7	24.3	11.9	9.2	6.3	6.0	3.6	3.6
80°	244.0	195.4	42.2	20.3	13.2	5.6	2.0	0.4	0.0	0.0	0.0
82.5°	71.3	63.3	11.5	9.2	4.0	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9
2.5°	1416.1	1403.0	1397.0	1417.3	1398.6	1422.5	1404.2	1412.1	1435.6	1446.0	1472.7
5°	1059.9	1046.4	1040.0	1070.7	1069.0	1084.2	1082.6	1096.5	1108.5	1081.8	1109.3
7.5°	738.3	729.1	744.3	768.2	793.6	785.3	785.3	766.6	773.0	769.0	767.7
10°	561.6	530.2	522.2	521.4	531.0	532.9	522.2	496.3	505.9	508.6	525.4
12.5°	441.8	417.5	380.5	363.8	359.4	363.0	327.5	304.9	315.6	309.3	325.6
15°	316.8	296.9	275.0	256.4	251.1	244.0	205.4	178.3	175.2	176.3	179.1
17.5°	226.1	212.5	212.5	192.6	181.9	160.4	140.9	129.0	127.8	129.0	130.9
20°	166.8	159.6	158.8	153.6	141.7	127.4	113.8	111.4	110.6	112.7	113.5
22.5°	143.7	136.1	129.7	129.4	118.2	106.3	99.9	96.7	97.1	97.9	99.9
25°	128.6	120.6	113.8	109.9	101.9	93.6	87.5	86.0	86.0	87.1	87.5
27.5°	117.8	107.9	101.9	96.3	89.2	82.0	76.8	75.6	74.9	75.6	77.6
30°	110.2	100.3	92.7	84.4	78.8	72.0	67.7	66.1	65.7	66.1	67.7
32.5°	94.4	88.3	82.4	74.9	68.0	63.7	58.9	56.1	56.1	56.9	58.5
35°	71.3	68.0	67.7	65.7	60.1	55.4	49.7	47.0	47.0	48.5	49.3
37.5°	62.9	56.9	56.1	55.4	52.9	46.6	41.4	39.0	38.6	39.8	41.4
40°	57.3	50.6	47.0	46.2	46.6	39.4	33.8	31.5	31.5	31.9	33.4
42.5°	52.9	44.9	38.6	37.8	39.4	33.0	27.5	25.1	25.1	25.1	27.1
45°	49.3	40.2	32.7	28.7	31.0	27.1	22.3	19.9	19.1	19.9	20.7
47.5°	47.0	36.6	28.7	23.1	23.1	21.5	17.9	15.1	14.3	14.7	15.9
50°	44.9	33.4	24.3	18.7	16.7	17.1	13.5	11.5	10.7	10.7	11.9
52.5°	41.8	30.2	21.1	15.9	12.8	11.5	9.9	8.4	8.0	8.4	9.2
55°	37.8	27.5	18.3	13.2	9.9	8.0	7.1	6.0	5.6	6.0	7.1
57.5°	33.4	23.1	14.7	10.3	6.7	5.2	4.8	4.0	3.2	3.6	4.4
59°	30.6	20.7	12.8	8.4	5.2	3.6	3.6	2.8	2.0	2.3	3.6
60°	29.4	19.1	10.7	7.1	4.4	2.8	2.8	2.0	1.2	1.6	2.8
62.5°	25.1	15.9	8.4	4.4	2.0	0.4	1.2	0.4	0.0	0.4	1.2
65°	21.1	12.8	5.6	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
67.5°	17.5	9.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13.9	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2.3	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°	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9	1750.9
2.5°	1474.2	1531.2	1566.2	1632.2	1699.9	1752.0	1817.3	1875.8	1900.1	1912.9
5°	1137.2	1216.3	1283.6	1384.3	1477.8	1591.7	1707.1	1843.2	1895.3	1908.9
7.5°	798.0	878.8	949.2	1065.9	1199.2	1351.7	1524.4	1697.2	1773.2	1794.6
10°	576.3	662.7	748.6	865.3	989.9	1155.0	1334.9	1548.7	1636.2	1652.9
12.5°	363.8	456.5	596.3	740.3	872.0	1005.0	1193.2	1425.7	1522.4	1553.1
15°	210.9	280.2	385.7	573.5	741.1	917.0	1122.4	1379.5	1487.8	1519.3
17.5°	141.3	165.2	237.6	381.3	602.6	835.9	1104.5	1417.3	1537.1	1577.4
20°	119.0	129.7	155.2	232.5	464.1	763.4	1109.3	1520.0	1677.3	1727.4
22.5°	104.7	114.6	130.9	167.2	324.0	673.5	1132.0	1666.9	1869.9	1933.9
25°	92.3	102.3	116.6	138.5	217.8	569.6	1181.7	1881.8	2125.0	2195.5
27.5°	82.0	91.1	103.5	122.2	167.6	453.7	1225.9	2091.2	2357.8	2415.2
30°	72.4	80.0	91.9	106.3	139.3	349.8	1248.2	2274.2	2527.4	2591.1
32.5°	62.9	70.1	81.6	93.1	114.6	266.7	1232.7	2408.7	2692.2	2732.7
35°	53.7	61.3	70.9	81.6	99.1	215.3	1155.0	2560.0	2862.9	2894.8
37.5°	46.2	52.5	62.5	70.9	89.6	172.3	1061.1	2696.2	3054.3	3100.1
40°	39.0	45.3	55.4	62.9	82.4	135.7	976.3	2847.4	3256.2	3312.6
42.5°	31.9	39.4	48.2	60.5	70.9	103.5	873.7	2970.0	3407.8	3478.6
45°	25.4	33.8	43.4	60.1	61.7	78.8	774.5	3065.5	3541.9	3605.6
47.5°	20.3	28.7	41.8	56.1	50.6	62.5	718.0	3165.4	3653.4	3704.3
50°	16.3	23.9	43.8	49.3	42.2	52.9	716.4	3276.9	3711.1	3744.9
52.5°	13.2	19.5	37.0	37.8	35.8	46.6	759.4	3402.2	3770.0	3797.9
55°	11.1	16.3	24.3	27.9	32.3	42.2	791.6	3595.2	3910.5	3936.8
57.5°	8.8	13.9	18.7	22.3	28.7	38.6	796.0	3744.1	4088.4	4105.5
59°	7.6	11.9	16.7	19.9	26.2	36.3	778.1	3753.2	4099.9	4127.4
60°	6.3	10.7	14.7	18.7	24.3	34.2	758.6	3686.8	4057.0	4087.6
62.5°	4.8	8.4	10.7	15.1	19.9	29.4	666.3	3454.8	3892.6	3914.1
65°	3.2	6.0	8.0	11.1	15.5	25.4	542.9	3153.8	3638.7	3686.8
67.5°	2.0	4.4	6.3	8.4	12.8	21.5	386.9	2704.5	3283.2	3314.3
70°	1.2	2.8	4.8	6.7	9.9	17.1	229.7	2137.7	2731.6	2737.9
72.5°	0.8	2.0	3.2	4.8	8.0	15.5	111.4	1393.4	1994.5	2070.5
75°	0.4	1.2	2.0	3.6	6.3	12.8	53.3	931.0	1451.1	1473.1
77.5°	0.0	0.4	1.2	2.3	4.8	9.9	31.0	611.4	989.5	1012.2
80°	0.0	0.0	0.8	2.0	3.6	6.3	18.7	360.6	599.4	610.6
82.5°	0.0	0.0	0.4	1.6	2.3	4.8	9.6	158.4	392.4	396.4
85°	0.0	0.0	0.4	1.6	2.0	3.2	3.6	21.5	174.3	177.5
87.5°	0.0	0.0	0.4	2.0	2.0	2.0	2.0	1.2	14.7	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)