

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: P458554

Luminaire Tested: **GALN-SA1B-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458554
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-SA1B-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 3852 lumens
Efficiency: N/A
Efficacy: 87.5 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

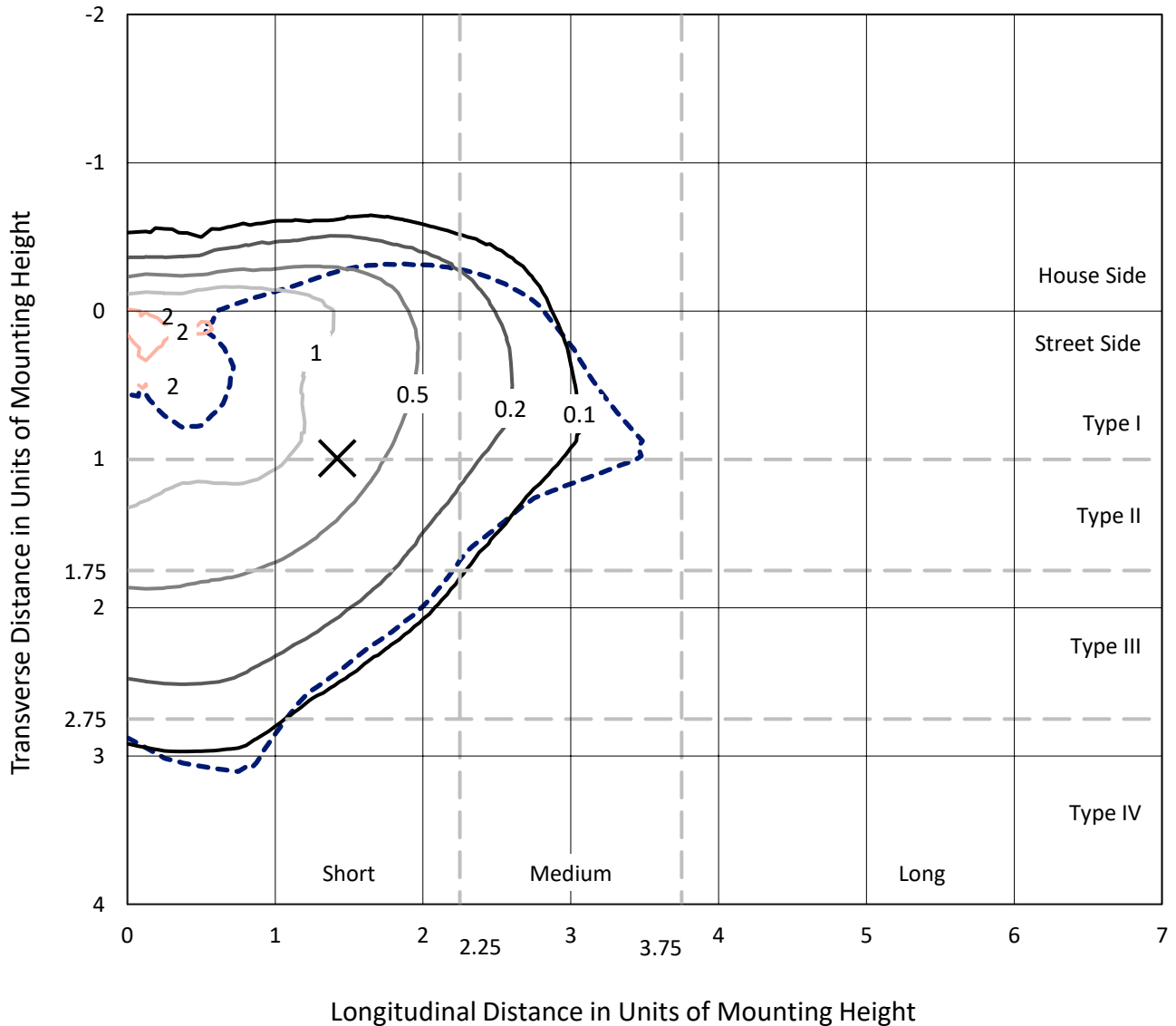
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

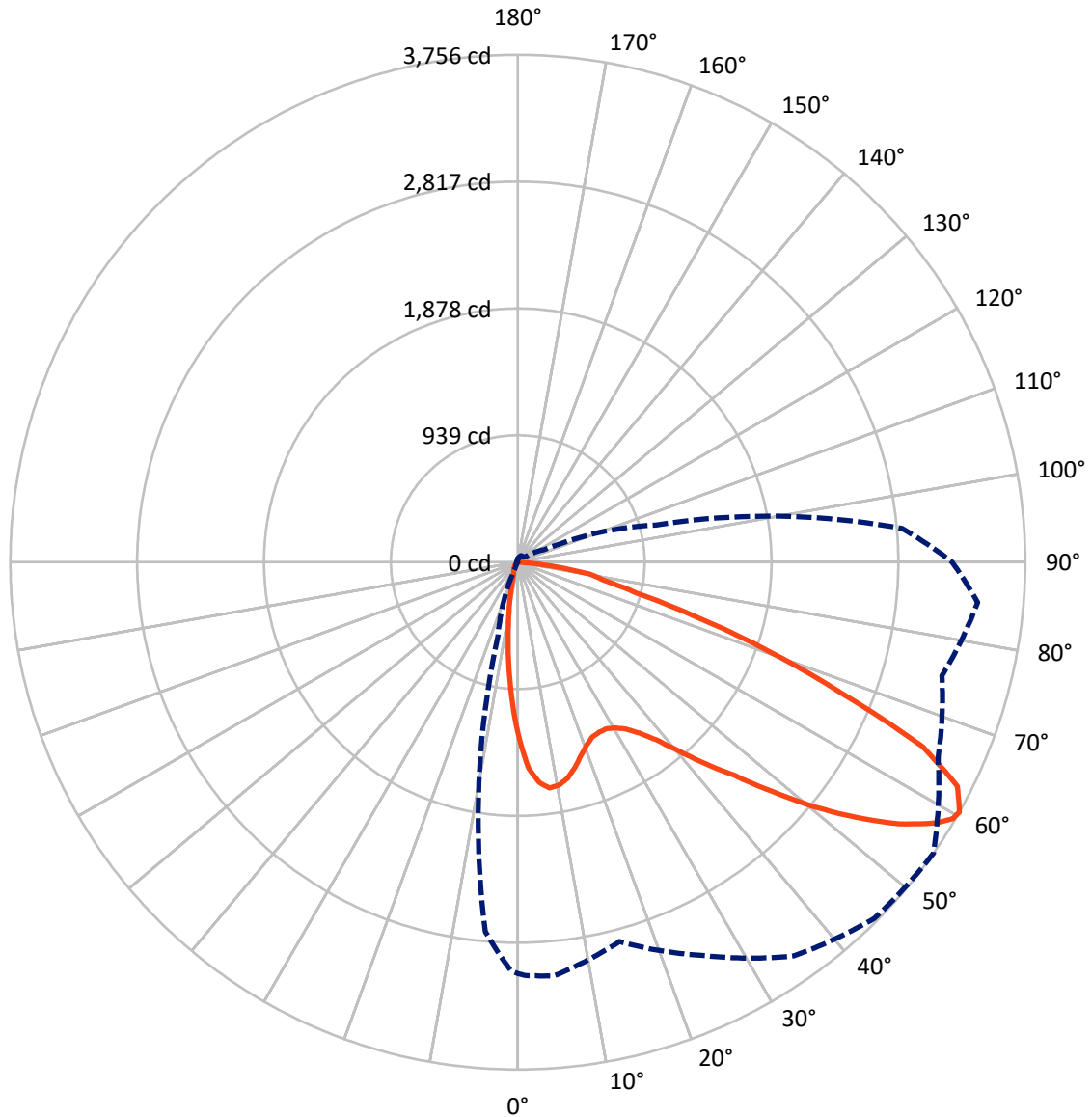
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type 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	571.7	0.0	571.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	3280.3	0.0	3280.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	3852.0	0.0	3852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	2.5
10°-20°	190.2	4.9
20°-30°	281.5	7.3
30°-40°	419.6	10.9
40°-50°	614.6	16.0
50°-60°	887.2	23.0
60°-70°	933.3	24.2
70°-80°	383.9	10.0
80°-90°	45.0	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°	3852.0	100.0
0°-180°	3852.0	100.0

Coefficient of Utilization



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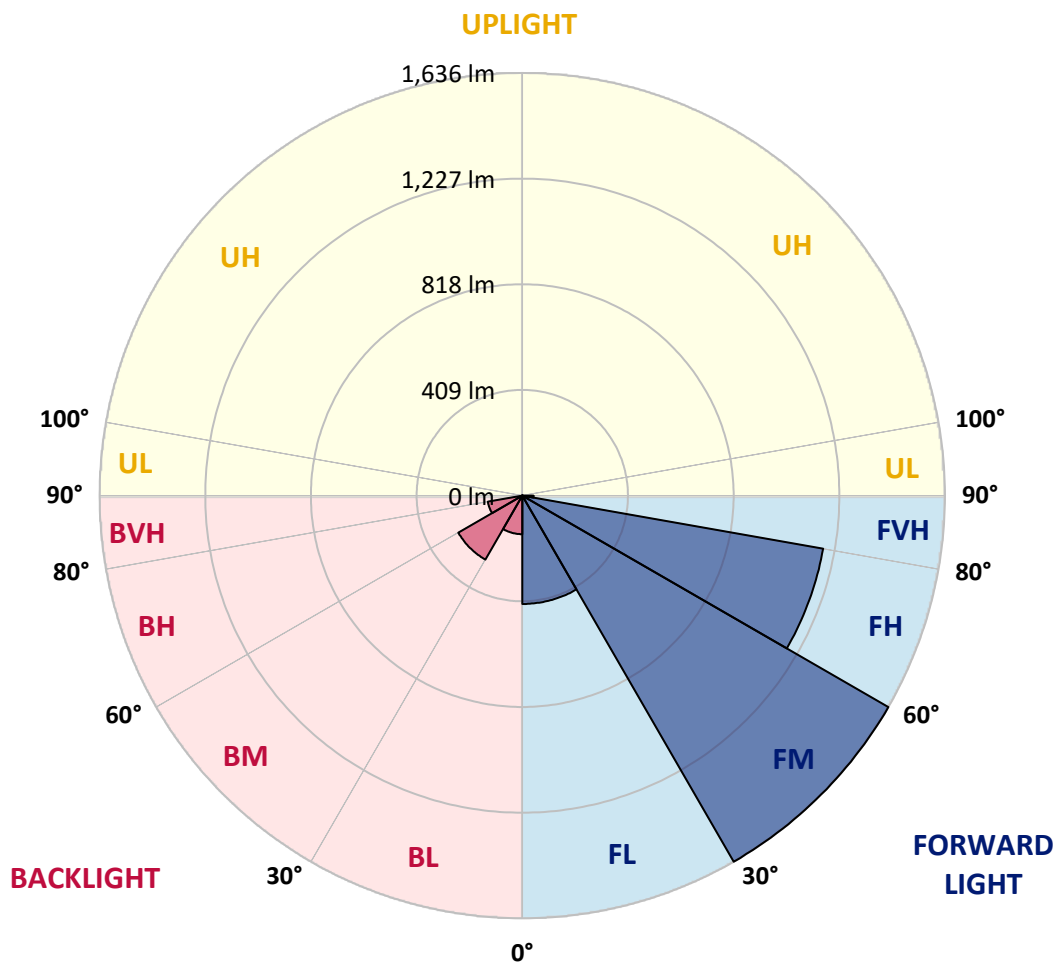
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.2	10.9			
FM	(30°-60°)	1635.6	42.5			
FH	(60°-80°)	1182.0	30.7			G1/1800
FVH	(80°-90°)	43.6	1.1			G1/100
BL	(0°-30°)	149.2	3.9	B1/500		
BM	(30°-60°)	285.9	7.4	B1/1000		
BH	(60°-80°)	135.3	3.5	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1424.9	1422.6	1443.6	1478.0	1512.7	1530.8	1527.2	1525.8	1497.0	1475.9	1431.8
5°	1422.0	1434.1	1471.8	1564.9	1635.5	1669.6	1679.6	1637.2	1581.2	1500.0	1399.7
7.5°	1336.9	1352.0	1413.4	1559.0	1684.4	1758.5	1755.8	1687.9	1572.3	1446.6	1303.7
10°	1231.3	1249.1	1321.2	1497.9	1660.7	1758.5	1763.8	1677.9	1534.1	1372.8	1222.4
12.5°	1156.9	1178.0	1257.7	1441.0	1599.6	1695.9	1702.2	1639.9	1505.3	1344.3	1178.3
15°	1131.7	1151.6	1232.5	1412.2	1534.7	1586.5	1585.1	1578.5	1494.0	1351.1	1180.6
17.5°	1175.0	1191.3	1282.6	1425.2	1473.9	1468.5	1476.2	1507.7	1496.4	1408.3	1255.4
20°	1286.8	1303.4	1401.5	1465.3	1427.3	1393.5	1397.1	1449.6	1518.3	1516.0	1372.2
22.5°	1440.7	1468.8	1557.8	1543.0	1421.1	1347.0	1339.6	1407.8	1555.7	1639.9	1529.9
25°	1635.5	1663.9	1733.3	1666.9	1451.6	1336.0	1329.2	1395.0	1601.1	1760.9	1707.5
27.5°	1799.1	1820.8	1889.9	1787.6	1496.7	1340.7	1329.5	1396.8	1637.8	1863.8	1857.2
30°	1930.2	1946.2	1986.8	1843.9	1535.5	1361.5	1348.5	1422.9	1654.1	1913.9	1978.5
32.5°	2035.7	2062.7	2075.5	1904.1	1591.3	1400.6	1378.4	1473.0	1693.9	1975.8	2105.7
35°	2156.4	2187.5	2171.2	1961.6	1664.8	1461.7	1434.4	1554.2	1754.1	2033.1	2253.4
37.5°	2309.4	2345.3	2281.5	2022.1	1742.5	1553.6	1540.9	1668.4	1845.4	2114.9	2411.7
40°	2467.7	2488.5	2388.6	2095.6	1838.0	1687.3	1699.5	1838.0	1964.9	2213.0	2580.1
42.5°	2591.4	2610.9	2498.6	2157.3	1935.5	1846.0	1896.7	2042.5	2101.8	2313.5	2705.8
45°	2685.9	2702.5	2574.8	2224.6	2067.2	2075.8	2171.5	2253.4	2239.1	2374.9	2802.8
47.5°	2759.5	2773.7	2633.5	2296.9	2264.3	2356.8	2503.3	2538.0	2381.4	2441.3	2890.5
50°	2789.7	2793.9	2651.8	2389.1	2488.2	2715.0	2867.7	2846.6	2544.5	2515.2	2983.9
52.5°	2829.1	2828.3	2704.3	2476.9	2698.7	3035.2	3187.6	3139.9	2728.9	2625.7	3088.9
55°	2932.6	2933.8	2816.7	2601.4	2878.1	3293.8	3456.8	3422.1	2923.4	2812.5	3211.3
57.5°	3058.3	3062.8	2976.5	2747.0	3049.4	3481.1	3657.8	3644.5	3186.4	3020.4	3327.0
59°	3074.6	3083.5	3052.1	2849.6	3151.1	3538.7	3726.6	3739.7	3327.3	3157.4	3389.5
60°	3045.0	3059.8	3074.0	2907.7	3210.7	3559.4	3730.8	3756.3	3433.1	3250.5	3418.0
62.5°	2915.7	2939.1	3010.6	3086.5	3285.2	3494.8	3598.2	3651.6	3564.2	3495.1	3420.6
65°	2746.4	2758.6	2861.8	3118.2	3140.8	3192.9	3225.0	3293.5	3406.7	3589.4	3298.2
67.5°	2468.9	2504.8	2631.1	2934.1	2714.7	2653.0	2645.0	2576.8	2871.0	3364.6	2996.4
70°	2039.6	2055.6	2211.3	2405.5	2048.8	1953.9	1991.8	1966.3	2225.5	2896.4	2411.7
72.5°	1542.4	1578.5	1730.6	1917.4	1394.1	1271.1	1375.7	1366.2	1671.6	2327.8	1656.8
75°	1097.3	1120.7	1314.7	1500.6	976.4	827.2	864.9	900.2	1167.0	1838.0	979.0
77.5°	754.0	774.1	919.7	992.4	712.2	682.2	624.1	658.2	764.7	1090.5	532.8
80°	454.8	453.9	549.7	567.5	496.0	576.1	483.3	542.6	462.2	466.7	206.4
82.5°	295.3	292.3	336.2	366.5	276.0	290.3	194.8	280.8	301.2	130.2	65.2
85°	132.2	137.9	161.6	213.2	121.0	64.3	39.7	86.3	128.4	65.5	0.0
87.5°	13.6	10.7	28.5	51.9	16.6	1.8	5.9	3.0	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°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1411.3	1394.1	1342.8	1294.8	1253.6	1203.2	1170.6	1119.3	1088.1	1078.6	1080.1
5°	1354.7	1305.2	1207.6	1129.6	1042.8	993.3	917.9	845.6	806.5	791.9	785.4
7.5°	1236.1	1183.0	1065.3	942.9	849.8	762.9	706.8	643.1	599.5	563.6	557.4
10°	1148.0	1078.3	932.5	800.8	727.3	662.1	606.0	542.3	491.0	450.1	438.8
12.5°	1095.2	1017.3	854.5	744.2	674.5	607.5	534.6	460.8	408.3	364.1	343.6
15°	1085.8	995.3	832.6	703.6	617.6	536.7	439.7	359.9	306.0	264.2	251.4
17.5°	1143.0	1034.8	829.3	661.2	543.2	428.4	327.6	261.5	200.7	177.3	168.1
20°	1245.0	1104.4	829.0	612.0	466.7	330.0	230.1	170.5	145.9	134.6	129.3
22.5°	1384.0	1199.3	844.7	569.6	387.2	243.4	164.3	135.8	121.6	112.4	110.3
25°	1553.9	1339.9	883.3	540.8	326.4	190.9	135.5	116.2	104.4	100.2	98.4
27.5°	1704.8	1474.5	925.7	511.2	282.9	169.0	125.7	106.4	97.0	93.7	91.0
30°	1835.0	1596.6	946.1	472.0	247.9	154.8	127.5	113.9	101.4	91.6	87.2
32.5°	1943.5	1690.3	959.5	436.4	218.2	126.6	100.8	88.1	82.4	78.9	75.9
35°	2079.3	1791.7	951.4	416.3	203.1	115.3	91.9	75.9	66.4	59.3	56.3
37.5°	2221.6	1893.1	937.5	399.7	196.3	107.0	87.5	72.0	61.7	54.3	50.4
40°	2369.0	1987.1	921.2	384.3	190.1	101.7	84.8	68.8	58.4	50.4	46.3
42.5°	2503.9	2078.7	914.7	374.2	180.0	102.6	82.7	67.3	55.1	46.8	43.3
45°	2613.0	2165.6	923.6	368.8	169.0	101.1	83.3	65.5	52.5	44.5	40.9
47.5°	2729.5	2288.3	952.3	363.5	158.3	94.0	87.8	65.2	51.3	43.0	39.1
50°	2865.0	2445.5	1018.2	350.5	145.3	86.3	93.4	64.9	49.8	41.2	37.4
52.5°	3045.6	2624.0	1086.1	327.6	126.3	78.9	89.2	64.0	46.8	39.1	35.3
55°	3207.8	2811.9	1143.6	300.6	102.3	68.2	80.3	60.2	41.8	35.6	32.0
57.5°	3274.8	2918.1	1141.8	263.3	81.8	59.9	66.1	55.1	36.5	31.4	28.5
59°	3250.2	2904.8	1103.6	235.7	74.7	55.4	54.9	54.6	34.1	28.5	26.1
60°	3215.5	2856.1	1062.3	222.1	70.3	52.5	50.4	54.0	32.0	26.7	24.3
62.5°	3082.6	2654.5	925.7	198.9	64.3	44.5	40.3	45.7	28.5	23.1	21.1
65°	2890.2	2344.7	783.6	192.4	62.6	36.8	33.5	32.6	24.3	19.6	17.8
67.5°	2514.9	1984.1	634.8	188.0	63.2	30.8	29.4	24.6	20.2	16.3	15.1
70°	2013.5	1547.1	519.8	182.9	63.7	25.2	24.6	19.6	16.3	13.6	12.5
72.5°	1223.3	917.1	409.2	158.9	62.0	20.2	21.9	14.8	11.9	9.8	9.2
75°	756.4	627.7	253.8	123.6	40.9	14.8	15.4	9.2	8.0	6.2	6.2
77.5°	438.2	396.4	90.7	44.5	18.1	8.9	6.8	4.7	4.4	2.7	2.7
80°	181.8	145.6	31.4	15.1	9.8	4.2	1.5	0.3	0.0	0.0	0.0
82.5°	53.1	47.1	8.6	6.8	3.0	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°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1054.9	1045.1	1040.7	1055.8	1041.9	1059.7	1046.0	1052.0	1069.5	1077.2	1097.0
5°	789.6	779.5	774.7	797.6	796.4	807.6	806.5	816.8	825.7	805.9	826.3
7.5°	550.0	543.2	554.4	572.2	591.2	585.0	585.0	571.0	575.8	572.8	571.9
10°	418.4	394.9	389.0	388.4	395.5	397.0	389.0	369.7	376.8	378.9	391.4
12.5°	329.1	311.0	283.4	271.0	267.7	270.4	244.0	227.1	235.1	230.4	242.5
15°	236.0	221.2	204.9	190.9	187.1	181.8	153.0	132.8	130.5	131.3	133.4
17.5°	168.4	158.3	158.3	143.5	135.5	119.5	105.0	96.1	95.2	96.1	97.5
20°	124.2	118.9	118.3	114.4	105.6	94.9	84.8	83.0	82.4	83.9	84.5
22.5°	107.0	101.4	96.7	96.4	88.1	79.2	74.4	72.0	72.3	72.9	74.4
25°	95.8	89.8	84.8	81.8	75.9	69.7	65.2	64.0	64.0	64.9	65.2
27.5°	87.8	80.3	75.9	71.8	66.4	61.1	57.2	56.3	55.7	56.3	57.8
30°	82.1	74.7	69.1	62.9	58.7	53.7	50.4	49.2	48.9	49.2	50.4
32.5°	70.3	65.8	61.4	55.7	50.7	47.4	43.9	41.8	41.8	42.4	43.6
35°	53.1	50.7	50.4	48.9	44.8	41.2	37.1	35.0	35.0	36.2	36.8
37.5°	46.8	42.4	41.8	41.2	39.4	34.7	30.8	29.1	28.8	29.6	30.8
40°	42.7	37.7	35.0	34.4	34.7	29.4	25.2	23.4	23.4	23.7	24.9
42.5°	39.4	33.5	28.8	28.2	29.4	24.6	20.5	18.7	18.7	18.7	20.2
45°	36.8	29.9	24.3	21.3	23.1	20.2	16.6	14.8	14.2	14.8	15.4
47.5°	35.0	27.3	21.3	17.2	17.2	16.0	13.3	11.3	10.7	11.0	11.9
50°	33.5	24.9	18.1	13.9	12.5	12.7	10.1	8.6	8.0	8.0	8.9
52.5°	31.1	22.5	15.7	11.9	9.5	8.6	7.4	6.2	5.9	6.2	6.8
55°	28.2	20.5	13.6	9.8	7.4	5.9	5.3	4.4	4.2	4.4	5.3
57.5°	24.9	17.2	11.0	7.7	5.0	3.9	3.6	3.0	2.4	2.7	3.3
59°	22.8	15.4	9.5	6.2	3.9	2.7	2.7	2.1	1.5	1.8	2.7
60°	21.9	14.2	8.0	5.3	3.3	2.1	2.1	1.5	0.9	1.2	2.1
62.5°	18.7	11.9	6.2	3.3	1.5	0.3	0.9	0.3	0.0	0.3	0.9
65°	15.7	9.5	4.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.3
67.5°	13.0	7.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	10.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1.8	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°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1098.2	1140.6	1166.7	1215.9	1266.3	1305.2	1353.8	1397.4	1415.5	1424.9
5°	847.1	906.1	956.2	1031.2	1100.9	1185.7	1271.7	1373.1	1411.9	1422.0
7.5°	594.5	654.7	707.1	794.0	893.3	1006.9	1135.6	1264.2	1320.9	1336.9
10°	429.3	493.7	557.7	644.6	737.4	860.4	994.4	1153.7	1218.9	1231.3
12.5°	271.0	340.1	444.1	551.5	649.6	748.6	888.9	1062.0	1134.1	1156.9
15°	157.1	208.7	287.3	427.2	552.1	683.1	836.1	1027.6	1108.3	1131.7
17.5°	105.3	123.0	177.0	284.0	448.9	622.6	822.8	1055.8	1145.1	1175.0
20°	88.7	96.7	115.6	173.2	345.7	568.7	826.3	1132.3	1249.4	1286.8
22.5°	78.0	85.4	97.5	124.5	241.3	501.7	843.2	1241.7	1392.9	1440.7
25°	68.8	76.2	86.9	103.2	162.2	424.3	880.3	1401.8	1583.0	1635.5
27.5°	61.1	67.9	77.1	91.0	124.8	338.0	913.2	1557.8	1756.4	1799.1
30°	54.0	59.6	68.5	79.2	103.8	260.6	929.8	1694.2	1882.7	1930.2
32.5°	46.8	52.2	60.8	69.4	85.4	198.7	918.2	1794.4	2005.5	2035.7
35°	40.0	45.7	52.8	60.8	73.8	160.4	860.4	1907.0	2132.7	2156.4
37.5°	34.4	39.1	46.5	52.8	66.7	128.4	790.5	2008.4	2275.3	2309.4
40°	29.1	33.8	41.2	46.8	61.4	101.1	727.3	2121.1	2425.6	2467.7
42.5°	23.7	29.4	35.9	45.1	52.8	77.1	650.8	2212.4	2538.6	2591.4
45°	19.0	25.2	32.3	44.8	46.0	58.7	577.0	2283.6	2638.5	2685.9
47.5°	15.1	21.3	31.1	41.8	37.7	46.5	534.9	2358.0	2721.5	2759.5
50°	12.2	17.8	32.6	36.8	31.4	39.4	533.7	2441.0	2764.5	2789.7
52.5°	9.8	14.5	27.6	28.2	26.7	34.7	565.7	2534.4	2808.4	2829.1
55°	8.3	12.2	18.1	20.8	24.0	31.4	589.7	2678.2	2913.1	2932.6
57.5°	6.5	10.4	13.9	16.6	21.3	28.8	593.0	2789.1	3045.6	3058.3
59°	5.6	8.9	12.5	14.8	19.6	27.0	579.6	2795.9	3054.2	3074.6
60°	4.7	8.0	11.0	13.9	18.1	25.5	565.1	2746.4	3022.2	3045.0
62.5°	3.6	6.2	8.0	11.3	14.8	21.9	496.3	2573.6	2899.7	2915.7
65°	2.4	4.4	5.9	8.3	11.6	19.0	404.4	2349.4	2710.5	2746.4
67.5°	1.5	3.3	4.7	6.2	9.5	16.0	288.2	2014.7	2445.8	2468.9
70°	0.9	2.1	3.6	5.0	7.4	12.7	171.1	1592.5	2034.8	2039.6
72.5°	0.6	1.5	2.4	3.6	5.9	11.6	83.0	1038.0	1485.7	1542.4
75°	0.3	0.9	1.5	2.7	4.7	9.5	39.7	693.5	1081.0	1097.3
77.5°	0.0	0.3	0.9	1.8	3.6	7.4	23.1	455.4	737.1	754.0
80°	0.0	0.0	0.6	1.5	2.7	4.7	13.9	268.6	446.5	454.8
82.5°	0.0	0.0	0.3	1.2	1.8	3.6	7.1	118.0	292.3	295.3
85°	0.0	0.0	0.3	1.2	1.5	2.4	2.7	16.0	129.9	132.2
87.5°	0.0	0.0	0.3	1.5	1.5	1.5	1.5	0.9	11.0	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)