

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: P193076

Luminaire Tested: **GLEON-AF-08-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193076
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24296)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-SLR-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA 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: 40547.2 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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: 25 FT

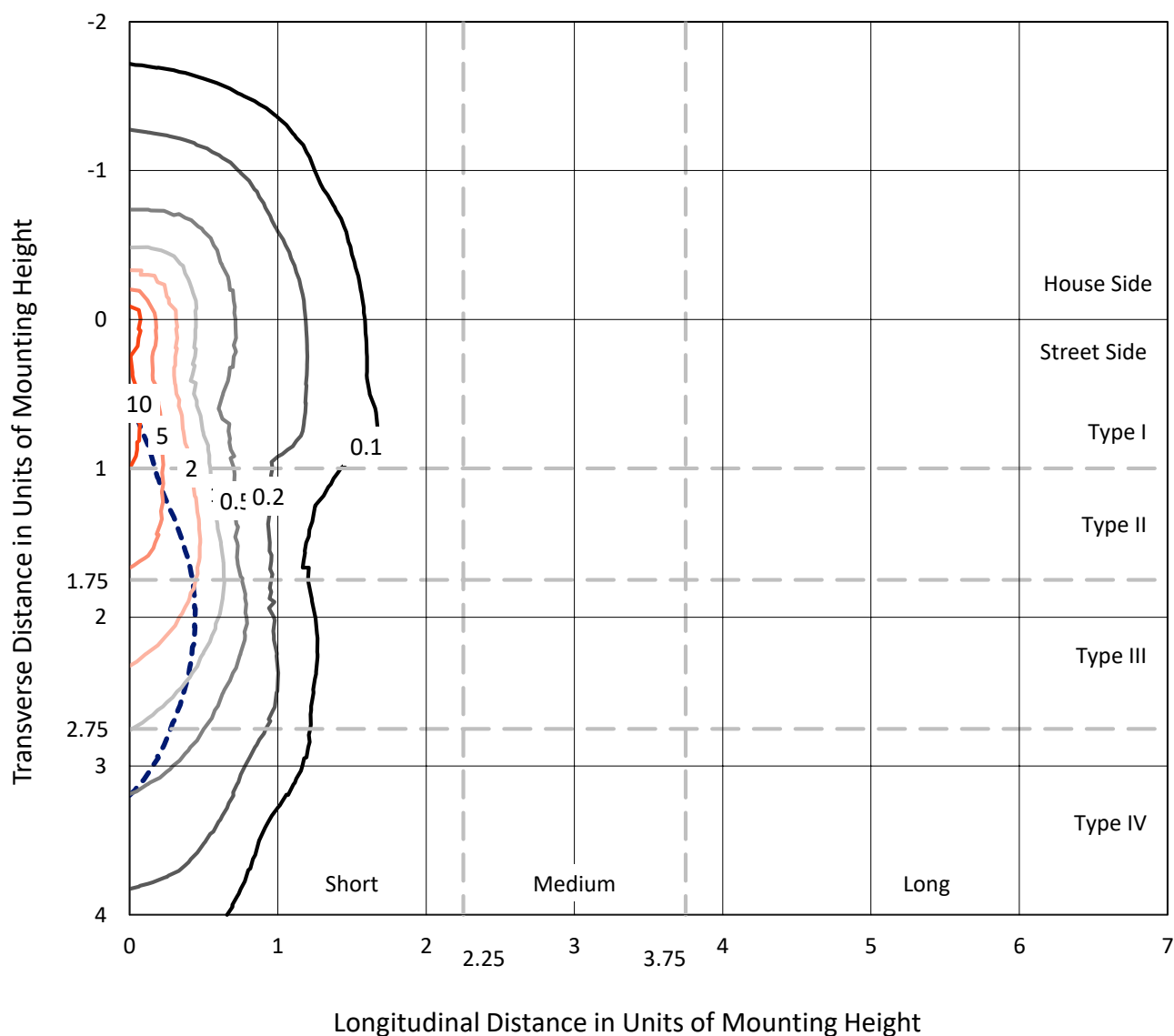


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

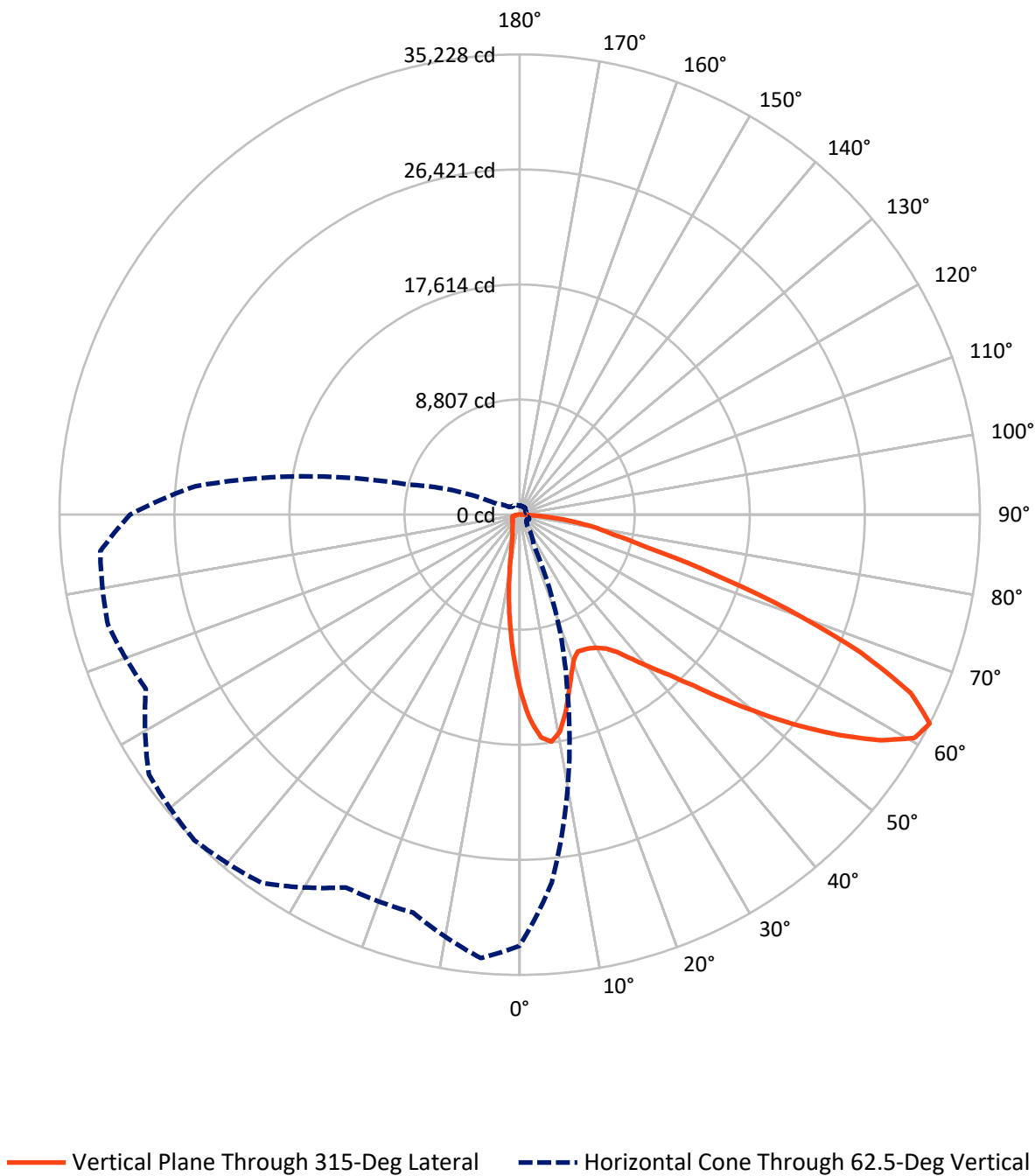


Based on 30 foot mounting height. Maximum calculated value = 15.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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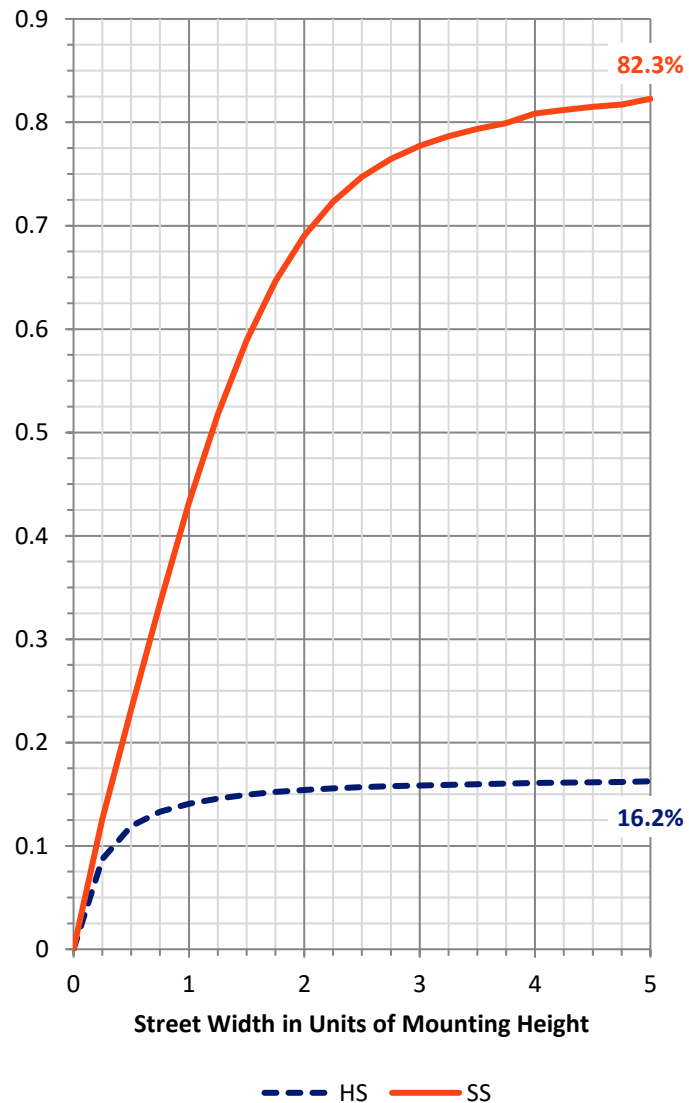
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6710.0	0.0	6710.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	33837.2	0.0	33837.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	40547.2	0.0	40547.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	997.2	2.5
10°-20°	1828.7	4.5
20°-30°	2666.2	6.6
30°-40°	4106.3	10.1
40°-50°	6043.4	14.9
50°-60°	8864.3	21.9
60°-70°	9909.0	24.4
70°-80°	4851.3	12.0
80°-90°	1280.9	3.2
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°	40547.2	100.0
0°-180°	40547.2	100.0

Coefficient of Utilization



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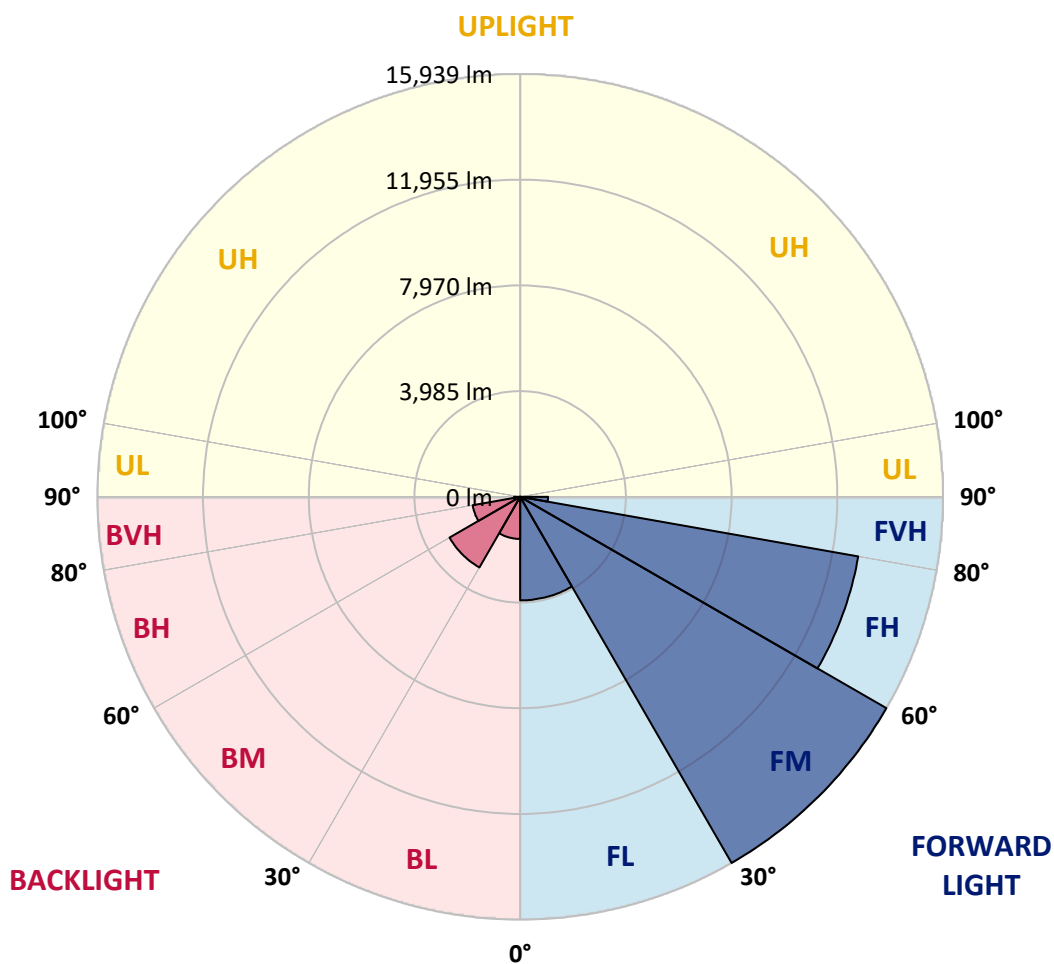
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3904.6	9.6			
FM	(30°-60°)	15939.5	39.3			
FH	(60°-80°)	12941.3	31.9			G5
FVH	(80°-90°)	1051.9	2.6			G5
BL	(0°-30°)	1587.5	3.9	B3/2500		
BM	(30°-60°)	3074.5	7.6	B3/5000		
BH	(60°-80°)	1819.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	229.0	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0
2.5°	14234.0	13944.2	13462.8	12961.2	12655.9	12299.2	12020.6	11775.4	11285.1	11189.2	11276.2
5°	13384.7	12803.0	11895.8	10981.9	10373.5	9720.4	9212.2	8804.3	8182.4	8073.1	8204.8
7.5°	12022.9	11327.5	10128.3	8962.5	8102.2	7286.4	6738.0	6301.2	5815.4	5605.8	5619.1
10°	10848.3	10063.7	8646.0	7377.7	6673.4	6122.9	5661.5	5213.6	4720.9	4397.6	4308.5
12.5°	10190.7	9288.0	7654.1	6521.9	5868.8	5289.2	4792.2	4313.0	3786.9	3457.1	3363.4
15°	10077.0	9096.3	7281.9	5973.5	5155.5	4422.2	3836.0	3301.0	2759.5	2491.9	2436.3
17.5°	10569.6	9439.6	7161.6	5485.4	4484.6	3579.7	2859.8	2262.3	1821.1	1687.3	1676.1
20°	11514.8	10099.3	7146.0	5026.3	3822.7	2761.6	1992.7	1558.0	1364.1	1326.2	1328.5
22.5°	12840.9	11122.4	7337.7	4680.7	3214.1	2059.5	1497.8	1303.9	1228.2	1192.4	1192.4
25°	14557.1	12531.1	7778.9	4429.0	2685.8	1645.0	1321.7	1205.9	1134.5	1110.0	1114.5
27.5°	16220.0	13901.8	8291.6	4230.5	2340.4	1493.3	1252.6	1147.9	1085.5	1061.0	1072.2
30°	17517.2	15118.9	8719.6	3960.8	2164.3	1451.1	1277.1	1170.1	1081.0	1043.1	1045.4
32.5°	18591.5	16184.2	9078.5	3766.9	2008.3	1243.7	1101.2	1054.3	1043.1	998.5	976.2
35°	19964.6	17345.6	9319.2	3771.4	1934.8	1110.0	980.7	898.2	838.1	786.7	786.7
37.5°	21573.9	18678.4	9575.5	3822.7	1908.0	1032.0	938.4	855.9	800.3	751.1	742.2
40°	23165.3	19984.6	9809.6	3871.7	1892.4	985.2	905.0	829.2	777.9	728.9	715.5
42.5°	24518.4	21058.9	10019.1	3896.1	1838.9	980.7	880.4	811.4	762.3	708.8	695.4
45°	25519.0	21959.5	10244.1	3934.1	1785.4	998.5	880.4	809.1	749.0	697.6	684.3
47.5°	26412.9	23016.0	10620.9	3934.1	1720.8	965.1	909.4	811.4	746.7	693.2	682.1
50°	27609.9	24464.8	11334.1	3842.6	1629.4	929.5	958.4	802.4	726.7	684.3	671.0
52.5°	29259.2	26321.4	12466.5	3684.4	1488.8	860.4	951.7	797.9	706.6	662.0	646.4
55°	31209.6	28309.7	13701.2	3499.5	1279.4	811.4	918.4	786.7	684.3	635.3	619.6
57.5°	32731.9	29678.3	14570.6	3214.1	1096.6	784.6	813.6	775.6	657.5	606.3	592.9
60°	33338.2	29624.8	14809.0	2833.0	1007.5	762.3	711.1	869.2	635.3	584.0	568.3
62.5°	33010.5	28256.2	14140.4	2565.5	987.3	733.3	666.5	804.7	617.5	568.3	546.1
65°	31497.0	25831.1	12368.3	2494.2	1045.4	704.4	637.5	630.8	592.9	546.1	523.8
67.5°	28200.5	22206.8	9903.1	2500.8	1119.0	675.3	608.5	577.3	559.5	521.6	501.5
70°	22969.1	17557.3	7382.2	2518.7	1156.8	641.9	577.3	543.9	523.8	485.8	472.5
72.5°	16888.6	13531.9	5362.8	2402.8	1163.5	604.1	535.0	506.0	485.8	445.8	434.7
75°	11554.8	10351.2	3720.1	1990.4	1014.2	550.5	488.2	461.4	448.0	399.1	392.2
77.5°	8441.0	7770.1	2380.5	1477.7	782.4	483.7	430.2	410.2	401.2	347.7	338.8
80°	6773.7	6147.4	1488.8	1012.0	572.8	405.7	361.1	349.9	341.0	287.6	280.8
82.5°	4698.5	4116.9	956.2	657.5	430.2	314.2	285.2	280.8	267.4	218.4	211.8
85°	2478.5	2235.7	606.3	448.0	312.1	216.3	198.5	198.5	191.6	144.9	140.4
87.5°	316.6	514.8	307.6	234.1	171.6	95.8	95.8	93.6	100.3	82.5	71.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0
2.5°	11071.1	11178.1	11075.6	11082.2	11195.9	11534.7	11688.5	11815.7	11951.6	12040.7	12080.8
5°	8024.1	8273.7	8358.6	8536.9	8799.8	9232.3	9403.8	9528.7	9611.2	9660.1	9680.3
7.5°	5487.6	5639.2	5808.6	6096.1	6668.9	6923.1	7036.8	7007.8	6914.2	6880.7	6847.3
10°	4136.9	4076.7	4045.6	4203.8	4667.3	4923.8	5004.0	4926.0	4874.7	4885.8	4941.6
12.5°	3205.2	3100.4	2973.4	2955.6	3261.0	3490.5	3541.7	3546.2	3639.9	3722.4	3845.0
15°	2336.0	2324.8	2262.3	2224.5	2398.3	2585.5	2607.8	2648.0	2732.7	2792.8	2899.8
17.5°	1647.2	1707.4	1756.5	1780.9	1912.5	2046.2	2021.7	2001.6	1986.0	1986.0	2037.2
20°	1328.5	1368.6	1431.0	1502.4	1636.0	1729.7	1669.5	1589.1	1531.3	1513.5	1520.2
22.5°	1196.9	1228.2	1263.8	1326.2	1446.6	1511.2	1446.6	1388.5	1330.7	1310.6	1303.9
25°	1130.1	1170.1	1203.6	1250.5	1339.6	1384.2	1321.7	1279.4	1243.7	1219.3	1201.5
27.5°	1092.1	1127.9	1136.8	1159.0	1234.8	1274.9	1243.7	1225.9	1203.6	1181.3	1159.0
30°	1052.0	1045.4	1029.8	1032.0	1092.1	1132.3	1130.1	1134.5	1132.3	1125.6	1121.1
32.5°	960.7	947.3	933.9	947.3	1003.0	1038.7	1040.9	1049.9	1049.9	1047.6	1065.4
35°	800.3	824.7	840.3	880.4	947.3	978.5	965.1	942.8	902.7	878.2	875.9
37.5°	740.0	744.5	771.3	827.0	900.6	929.5	909.4	858.1	831.4	827.0	833.6
40°	711.1	715.5	731.1	782.4	855.9	884.9	867.1	829.2	804.7	802.4	813.6
42.5°	690.9	695.4	704.4	740.0	800.3	835.9	838.1	811.4	782.4	784.6	795.7
45°	679.8	682.1	679.8	697.6	753.4	795.7	813.6	795.7	771.3	775.6	789.1
47.5°	677.6	671.0	662.0	666.5	724.4	766.8	789.1	782.4	771.3	775.6	786.7
50°	668.6	653.1	641.9	639.7	697.6	742.2	762.3	762.3	766.8	775.6	786.7
52.5°	641.9	624.1	624.1	617.5	679.8	722.2	735.6	737.8	744.5	760.1	775.6
55°	608.5	601.8	608.5	597.3	666.5	706.6	713.3	717.8	722.2	735.6	757.8
57.5°	579.5	570.7	586.1	581.8	655.3	690.9	690.9	700.0	700.0	717.8	735.6
60°	563.9	546.1	552.8	557.2	639.7	677.6	673.1	682.1	686.4	702.1	715.5
62.5°	543.9	528.3	528.3	539.4	621.9	657.5	655.3	662.0	679.8	684.3	697.6
65°	519.3	512.7	506.0	519.3	604.1	635.3	637.5	646.4	662.0	666.5	677.6
67.5°	494.8	497.0	483.7	497.0	588.5	613.0	613.0	630.8	637.5	646.4	657.5
70°	468.0	470.3	459.1	474.7	577.3	588.5	586.1	610.8	615.2	621.9	633.0
72.5°	434.7	434.7	430.2	452.5	559.5	563.9	559.5	579.5	581.8	588.5	592.9
75°	399.1	399.1	394.5	425.7	548.4	537.1	523.8	539.4	543.9	548.4	548.4
77.5°	352.2	356.6	356.6	394.5	510.5	526.0	481.4	490.3	497.0	499.4	492.5
80°	294.2	305.4	309.9	358.8	428.0	485.8	430.2	436.8	439.1	439.1	430.2
82.5°	225.1	245.2	256.3	309.9	327.7	407.9	374.4	381.1	374.4	361.1	356.6
85°	156.0	182.8	196.1	236.2	247.4	314.2	312.1	312.1	298.8	280.8	278.6
87.5°	84.6	100.3	109.3	140.4	169.4	211.8	229.6	222.9	211.8	200.6	202.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0
2.5°	12290.3	12593.4	13077.1	13447.2	13819.4	14178.2	14566.1	14862.5	15114.4	15212.5	15511.1
5°	9883.0	10262.0	10719.0	11543.7	12127.7	12771.8	13516.3	14501.4	14880.3	15404.1	16262.2
7.5°	6987.6	7331.0	8066.5	8733.0	9559.8	10471.5	11476.8	12836.5	13333.5	14173.7	15571.3
10°	5217.9	5616.9	6207.6	6769.2	7498.1	8429.8	9584.4	11104.6	11708.6	12620.2	14229.5
12.5°	4203.8	4674.1	5300.3	5828.7	6392.5	7050.2	8171.3	9838.5	10647.7	11445.6	13072.7
15°	3229.7	3722.4	4304.0	4975.0	5596.8	6305.7	7480.3	9303.5	10235.3	11066.7	12455.3
17.5°	2235.7	2656.8	3390.2	4090.1	4885.8	5793.0	7288.5	9417.3	10529.6	11487.9	12562.3
20°	1584.8	1825.5	2427.3	3238.7	4230.5	5369.5	7252.9	10014.6	11461.2	12555.6	13248.8
22.5°	1332.9	1422.0	1771.9	2516.5	3662.2	5053.0	7377.7	10852.7	12718.4	14115.9	14343.2
25°	1214.8	1268.3	1451.1	1974.9	3156.2	4823.4	7799.0	12100.9	14274.0	15676.1	15636.0
27.5°	1150.2	1205.9	1326.2	1667.3	2775.0	4680.7	8220.3	13580.9	16052.8	17370.0	16870.8
30°	1130.1	1205.9	1332.9	1571.3	2503.1	4455.6	8565.8	14880.3	17421.4	18513.6	17432.6
32.5°	1114.5	1125.6	1183.6	1355.2	2244.5	4192.6	8799.8	16046.2	18760.9	19601.2	18241.6
35°	900.6	956.2	1049.9	1214.8	2093.0	4034.4	8799.8	17051.3	20080.4	20700.1	19012.9
37.5°	867.1	916.1	998.5	1139.0	2008.3	3956.4	8623.8	18020.9	21429.0	21946.1	19648.1
40°	849.3	889.4	967.4	1081.0	1972.5	3867.2	8367.4	18876.8	22746.2	23194.3	20241.0
42.5°	835.9	871.6	945.1	1045.4	1925.8	3769.1	8160.1	19563.3	23889.7	24259.7	20807.2
45°	829.2	867.1	947.3	1063.2	1832.2	3639.9	8091.0	20305.7	24830.4	25149.1	21420.1
47.5°	829.2	873.7	958.4	1101.2	1720.8	3506.1	8307.2	21284.1	25719.6	25875.7	22142.3
50°	822.5	871.6	989.7	1063.2	1558.0	3336.7	8815.5	22516.7	26682.5	26700.4	23056.1
52.5°	809.1	867.1	1065.4	1040.9	1370.7	3113.8	9501.9	24099.2	28106.8	28213.8	24487.0
55°	793.6	860.4	1045.4	989.7	1217.0	2848.6	10063.7	26022.9	30108.5	30404.8	26591.2
57.5°	773.4	851.4	1012.0	918.4	1116.7	2507.5	10266.4	27431.5	31506.0	32250.5	28962.8
60°	755.6	844.8	913.9	875.9	1054.3	2220.0	9874.2	27152.9	31410.2	33015.0	31064.7
62.5°	737.8	851.4	833.6	849.3	1025.3	2035.1	8848.9	24921.7	29820.9	32225.9	32622.6
65°	717.8	791.2	786.7	827.0	1018.7	1961.4	7335.4	21576.1	26749.4	29731.7	32990.5
67.5°	690.9	731.1	753.4	797.9	1040.9	1896.8	5920.1	17798.0	22481.0	25993.9	31073.6
70°	662.0	695.4	719.9	762.3	1027.6	1867.9	4923.8	14035.6	17838.2	21304.1	27291.1
72.5°	624.1	653.1	675.3	715.5	1014.2	1852.3	4159.2	11303.0	13317.8	15825.4	22189.0
75°	579.5	606.3	621.9	662.0	971.9	1696.2	3269.8	9564.3	9965.5	11008.8	17673.2
77.5°	528.3	548.4	561.7	606.3	860.4	1410.9	2364.9	7377.7	7738.9	7993.0	13549.7
80°	468.0	488.2	494.8	537.1	713.3	1103.3	1542.4	5449.8	5788.5	5846.5	8848.9
82.5°	399.1	419.0	419.0	459.1	584.0	793.6	1012.0	3733.5	3800.4	3996.4	6254.4
85°	321.0	336.5	336.5	356.6	452.5	592.9	695.4	1874.6	1854.4	2117.5	5418.5
87.5°	229.6	240.7	251.9	256.3	323.2	392.2	419.0	570.7	376.7	432.4	3479.4
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0	13699.0
2.5°	15736.3	15863.4	15734.1	15640.5	15237.0	14904.9	14461.3	14234.0
5°	16915.4	17238.6	17129.3	16737.1	15894.5	14947.2	13870.7	13384.7
7.5°	16772.7	17523.9	17541.7	16808.5	15566.8	14171.6	12713.9	12022.9
10°	15662.8	16623.4	16897.6	16186.5	14869.2	13309.0	11637.3	10848.3
12.5°	14423.5	15364.0	15573.6	15328.4	14227.3	12660.3	10964.1	10190.7
15°	13409.3	13830.6	14080.1	14294.2	13676.7	12401.8	10926.3	10077.0
17.5°	12791.8	12745.1	12816.3	13188.5	13293.3	12698.2	11505.8	10569.6
20°	12568.9	11853.4	11835.6	12348.3	13112.9	13404.8	12638.0	11514.8
22.5°	12691.5	11532.6	11385.4	11993.9	13208.7	14423.5	14122.6	12840.9
25°	13115.1	11559.3	11441.1	12029.6	13556.4	15509.0	15725.1	14557.1
27.5°	13781.5	11728.7	11572.6	12176.6	14017.8	16420.6	17303.2	16220.0
30°	14414.5	12022.9	11829.0	12466.5	14439.0	16781.6	18270.6	17517.2
32.5°	15183.5	12573.4	12232.3	12999.1	14960.7	17356.7	19133.2	18591.5
35°	15936.9	13358.0	12934.5	13821.7	15542.3	18072.2	20118.4	19964.6
37.5°	16763.8	14383.3	14033.4	14884.8	16338.1	18747.6	21375.5	21573.9
40°	17646.5	15742.9	15328.4	16436.2	17572.9	19594.5	22688.3	23165.3
42.5°	18535.9	17251.9	16757.1	17880.5	18930.4	20430.4	23811.8	24518.4
45°	19554.4	18890.3	18656.1	19871.0	20234.3	21226.2	24640.9	25519.0
47.5°	20740.2	20749.1	21125.9	21611.7	21549.3	22126.6	25474.5	26412.9
50°	22124.5	23069.4	23900.9	24224.1	22904.6	23094.0	26631.3	27609.9
52.5°	23787.2	25844.5	26874.3	26662.5	24364.5	24275.3	28463.4	29259.2
55°	25866.8	28782.2	29805.3	29653.7	26042.8	25884.6	30745.9	31209.6
57.5°	28274.0	31628.6	32569.2	31887.1	28057.8	27649.9	32633.8	32731.9
60°	30389.3	33884.2	34708.9	33953.4	30090.6	29529.0	33812.9	33338.2
62.5°	31566.2	34648.8	35228.4	34414.7	31483.7	31530.5	34071.5	33010.5
65°	31040.1	32716.3	32903.5	32836.7	31124.8	32691.8	33142.0	31497.0
67.5°	28160.4	27830.5	28144.7	28579.4	28048.9	31162.7	30567.6	28200.5
70°	23087.2	21275.2	21901.4	22193.5	22434.2	26816.3	26531.0	22969.1
72.5°	17399.1	14904.9	15399.6	15339.6	16454.0	21509.3	20633.3	16888.6
75°	12328.3	10105.9	10168.4	10143.8	11481.3	16828.4	14940.5	11554.8
77.5°	8626.0	7322.0	7355.5	7493.6	7718.8	12691.5	10674.4	8441.0
80°	5931.2	5556.7	5741.7	5752.8	5349.5	8525.7	7886.0	6773.7
82.5°	4417.8	3862.8	3818.2	3882.8	4192.6	6907.5	6060.5	4698.5
85°	3617.6	2286.9	1838.9	2304.8	3715.6	6840.6	4025.4	2478.5
87.5°	2037.2	1085.5	490.3	909.4	1482.2	4529.3	1163.5	316.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)