

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: P193067

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193067
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-09-LED-E1-SLR-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA 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: 36542.9 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

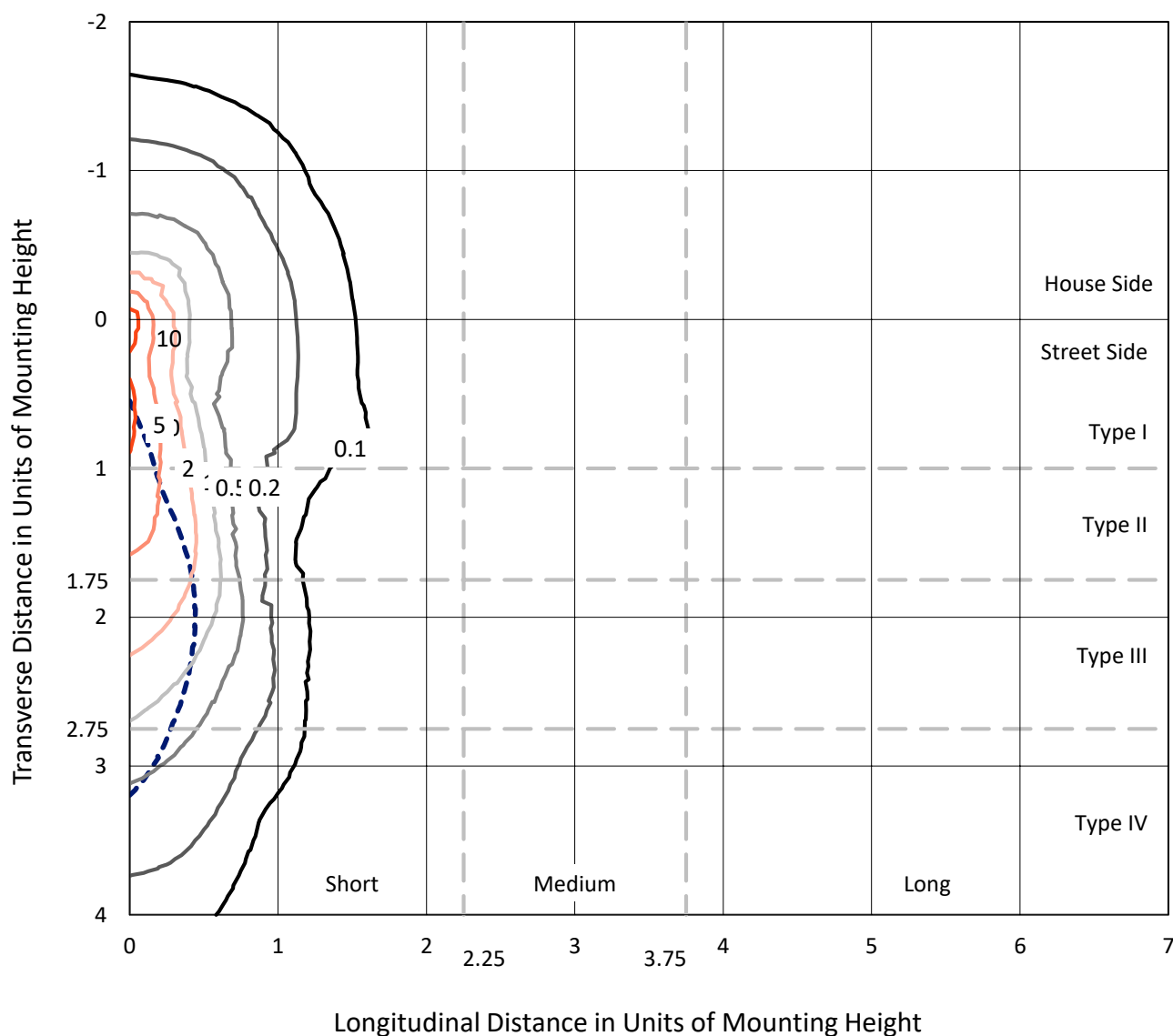


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

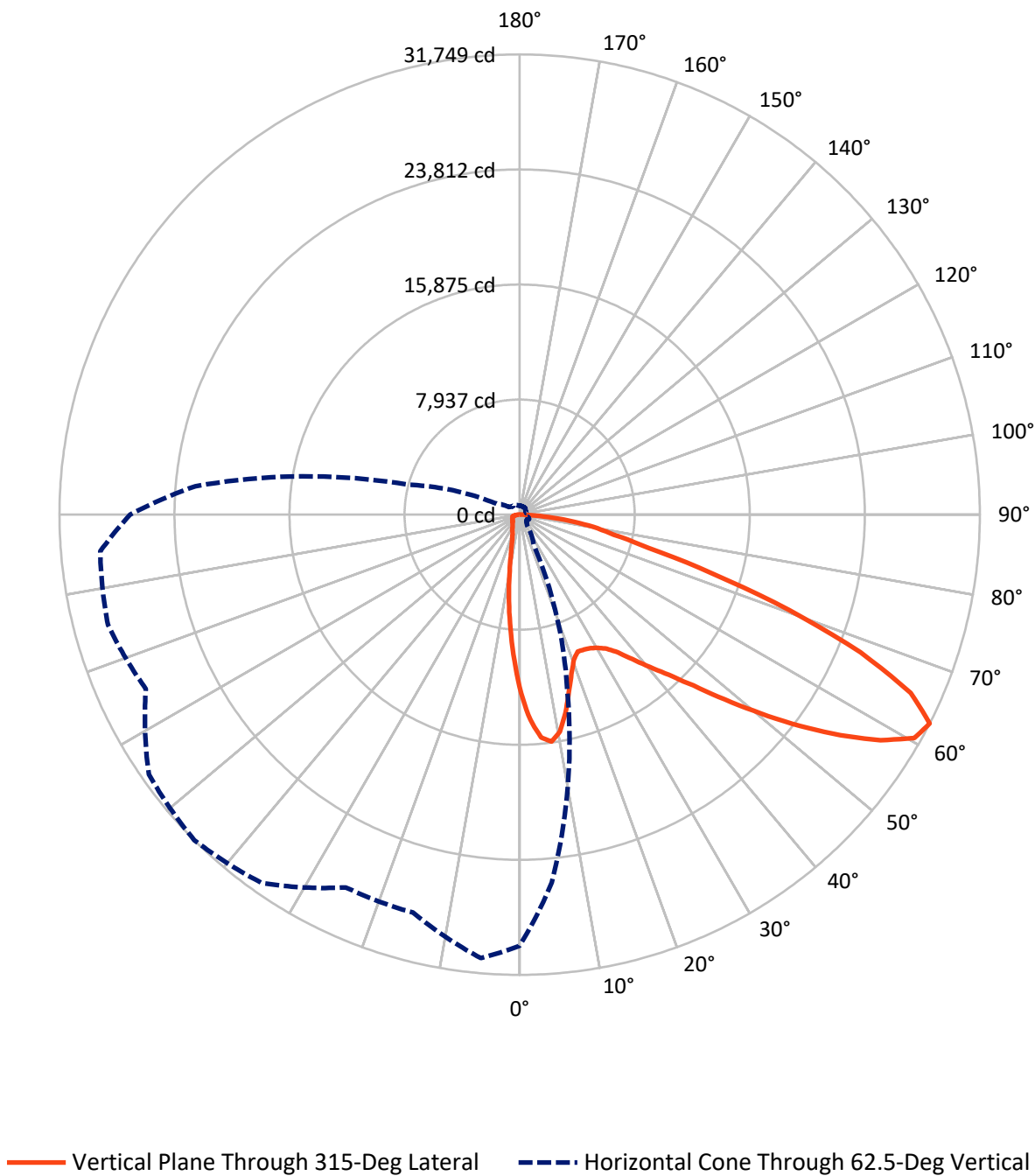


Based on 30 foot mounting height. Maximum calculated value = 13.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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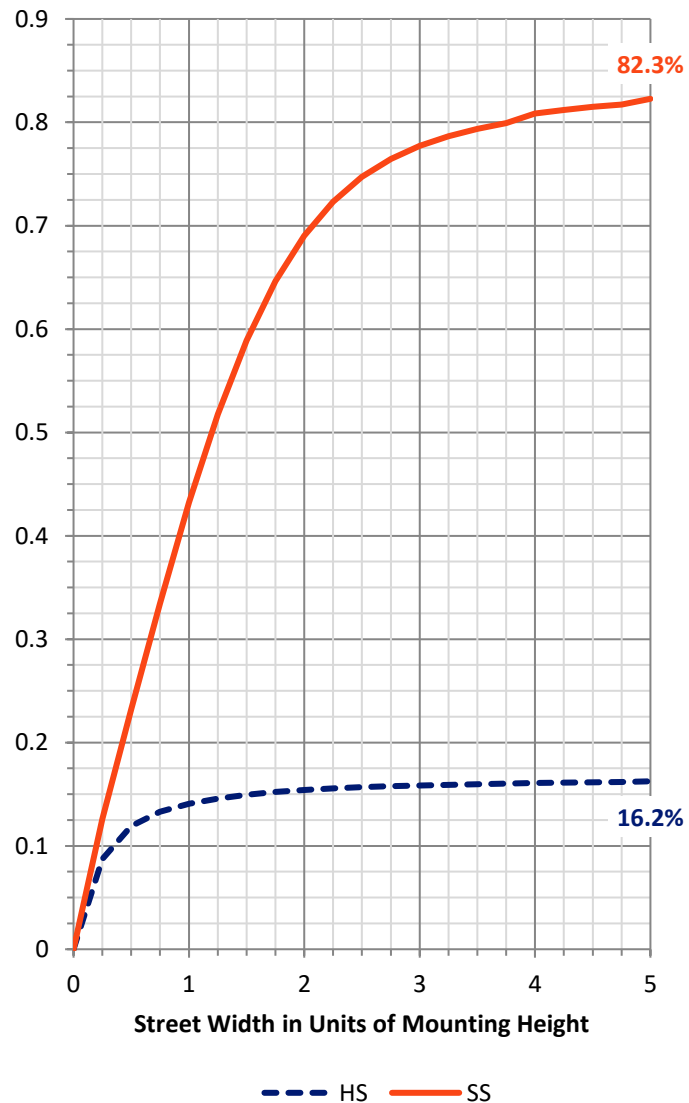
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6047.3	0.0	6047.3
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	30495.5	0.0	30495.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	36542.9	0.0	36542.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.7	2.5
10°-20°	1648.1	4.5
20°-30°	2402.9	6.6
30°-40°	3700.8	10.1
40°-50°	5446.5	14.9
50°-60°	7988.9	21.9
60°-70°	8930.4	24.4
70°-80°	4372.2	12.0
80°-90°	1154.4	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°	36542.9	100.0
0°-180°	36542.9	100.0

Coefficient of Utilization



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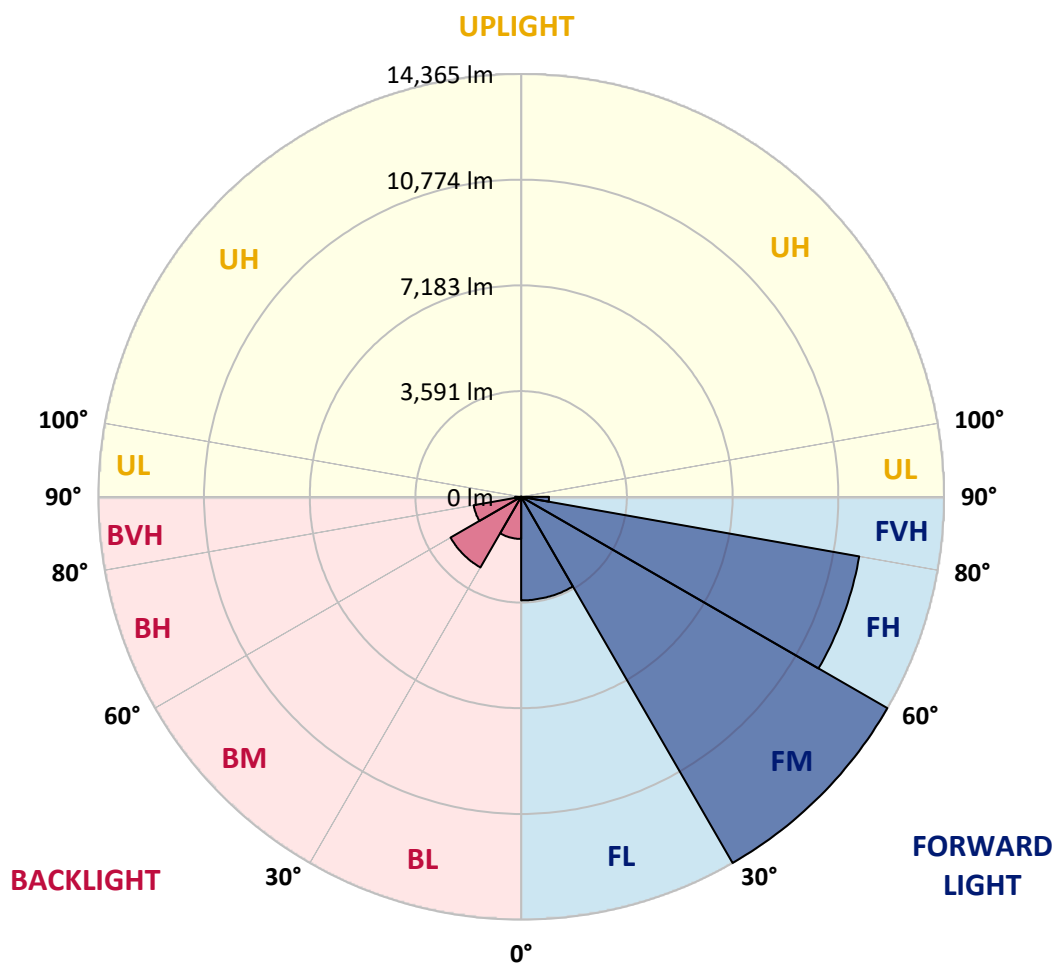
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3519.0	9.6			
FM	(30°-60°)	14365.3	39.3			
FH	(60°-80°)	11663.2	31.9			G4/12000
FVH	(80°-90°)	948.0	2.6			G5
BL	(0°-30°)	1430.7	3.9	B3/2500		
BM	(30°-60°)	2770.9	7.6	B3/5000		
BH	(60°-80°)	1639.4	4.5	B3/2500		G3/2500
BVH	(80°-90°)	206.4	0.6			G2/225
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°	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2
2.5°	12828.2	12567.1	12133.2	11681.2	11406.0	11084.6	10833.5	10612.6	10170.6	10084.2	10162.5
5°	12062.9	11538.7	10721.1	9897.4	9349.0	8760.4	8302.4	7934.9	7374.4	7275.9	7394.4
7.5°	10835.6	10208.7	9128.1	8077.4	7302.1	6566.8	6072.6	5678.9	5240.9	5052.1	5064.1
10°	9776.8	9069.8	7792.2	6649.2	6014.4	5518.2	5102.4	4698.5	4254.7	3963.4	3883.1
12.5°	9184.3	8370.7	6898.3	5877.8	5289.2	4766.9	4318.9	3887.0	3412.9	3115.6	3031.3
15°	9081.8	8197.9	6562.7	5383.6	4646.4	3985.4	3457.2	2975.0	2487.0	2245.9	2195.7
17.5°	9525.8	8507.4	6454.3	4943.7	4041.7	3226.1	2577.3	2039.0	1641.2	1520.7	1510.6
20°	10377.6	9102.0	6440.3	4529.9	3445.2	2488.9	1795.9	1404.2	1229.3	1195.3	1197.3
22.5°	11572.7	10024.0	6613.0	4218.5	2896.7	1856.1	1349.9	1175.2	1106.9	1074.7	1074.7
25°	13119.6	11293.5	7010.7	3991.5	2420.6	1482.5	1191.3	1086.8	1022.4	1000.4	1004.4
27.5°	14618.2	12529.0	7472.8	3812.7	2109.2	1345.8	1128.9	1034.5	978.3	956.2	966.3
30°	15787.2	13625.7	7858.5	3569.6	1950.6	1307.8	1151.0	1054.7	974.3	940.1	942.2
32.5°	16755.5	14586.0	8181.9	3394.9	1810.0	1120.9	992.4	950.1	940.1	900.0	879.9
35°	17993.0	15632.6	8398.9	3398.9	1743.7	1000.4	883.9	809.5	755.3	709.1	709.1
37.5°	19443.2	16833.8	8629.9	3445.2	1719.5	930.2	845.6	771.4	721.1	677.0	668.8
40°	20877.6	18011.0	8840.8	3489.3	1705.4	887.8	815.6	747.3	701.1	656.8	644.8
42.5°	22096.9	18979.2	9029.6	3511.4	1657.3	883.9	793.4	731.2	687.0	638.8	626.7
45°	22998.8	19790.7	9232.5	3545.6	1609.1	900.0	793.4	729.2	675.0	628.8	616.7
47.5°	23804.5	20743.0	9571.9	3545.6	1550.8	869.8	819.6	731.2	672.9	624.8	614.7
50°	24883.1	22048.7	10214.7	3463.2	1468.5	837.7	863.8	723.2	654.9	616.7	604.6
52.5°	26369.6	23722.1	11235.2	3320.6	1341.9	775.4	857.8	719.2	636.8	596.7	582.6
55°	28127.3	25513.9	12348.2	3153.9	1153.0	731.2	827.6	709.1	616.7	572.5	558.5
57.5°	29499.4	26747.3	13131.6	2896.7	988.4	707.1	733.2	699.0	592.6	546.4	534.4
60°	30045.7	26699.1	13346.6	2553.2	908.0	687.0	640.8	783.4	572.5	526.3	512.2
62.5°	29750.4	25465.7	12743.9	2312.2	889.9	660.9	600.6	725.2	556.4	512.2	492.2
65°	28386.5	23280.1	11146.8	2247.9	942.2	634.8	574.4	568.4	534.4	492.2	472.1
67.5°	25415.5	20013.8	8925.2	2253.9	1008.5	608.7	548.4	520.3	504.2	470.1	452.0
70°	20700.8	15823.4	6653.2	2270.0	1042.6	578.5	520.3	490.1	472.1	437.9	425.9
72.5°	15220.8	12195.5	4833.2	2165.5	1048.6	544.4	482.2	456.0	437.9	401.7	391.7
75°	10413.7	9328.9	3352.7	1793.8	914.1	496.1	439.9	415.8	403.8	359.6	353.6
77.5°	7607.4	7002.8	2145.5	1331.9	705.0	436.0	387.7	369.7	361.5	313.3	305.4
80°	6104.8	5540.3	1341.9	912.0	516.2	365.6	325.4	315.4	307.3	259.2	253.2
82.5°	4234.6	3710.2	861.7	592.6	387.7	283.2	257.1	253.2	241.0	196.8	190.8
85°	2233.8	2014.8	546.4	403.8	281.3	194.8	178.7	178.7	172.7	130.6	126.5
87.5°	285.2	464.1	277.2	211.0	154.7	86.5	86.5	84.3	90.3	74.3	64.3
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°	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2
2.5°	9977.8	10074.1	9981.8	9987.8	10090.2	10395.6	10534.2	10648.7	10771.3	10851.6	10887.8
5°	7231.8	7456.7	7533.0	7693.7	7930.8	8320.5	8475.1	8587.7	8662.0	8706.3	8724.3
7.5°	4945.7	5082.3	5234.9	5494.1	6010.4	6239.4	6341.9	6315.7	6231.3	6201.2	6171.1
10°	3728.4	3674.1	3646.0	3788.6	4206.5	4437.4	4509.7	4439.4	4393.4	4403.2	4453.5
12.5°	2888.7	2794.3	2679.8	2663.6	2938.8	3145.8	3192.0	3196.1	3280.4	3354.7	3465.1
15°	2105.2	2095.1	2039.0	2004.8	2161.4	2330.2	2350.2	2386.4	2462.8	2517.0	2613.5
17.5°	1484.5	1538.7	1582.9	1605.0	1723.6	1844.1	1822.0	1803.9	1789.8	1789.8	1836.1
20°	1197.3	1233.4	1289.7	1353.9	1474.5	1558.8	1504.6	1432.3	1380.1	1364.0	1370.0
22.5°	1078.7	1106.9	1139.0	1195.3	1303.7	1362.0	1303.7	1251.4	1199.2	1181.2	1175.2
25°	1018.6	1054.7	1084.7	1126.9	1207.4	1247.5	1191.3	1153.0	1120.9	1098.8	1082.8
27.5°	984.3	1016.4	1024.6	1044.6	1113.0	1149.1	1120.9	1104.8	1084.7	1064.6	1044.6
30°	948.2	942.2	928.0	930.2	984.3	1020.5	1018.6	1022.4	1020.5	1014.5	1010.4
32.5°	865.8	853.8	841.8	853.8	904.0	936.2	938.1	946.1	946.1	944.1	960.2
35°	721.1	743.3	757.2	793.4	853.8	881.8	869.8	849.7	813.6	791.5	789.5
37.5°	666.9	671.0	695.0	745.2	811.6	837.7	819.6	773.4	749.3	745.2	751.2
40°	640.8	644.8	659.0	705.0	771.4	797.5	781.4	747.3	725.2	723.2	733.2
42.5°	622.8	626.7	634.8	666.9	721.1	753.4	755.3	731.2	705.0	707.1	717.2
45°	612.7	614.7	612.7	628.8	678.9	717.2	733.2	717.2	695.0	699.0	711.2
47.5°	610.6	604.6	596.7	600.6	652.9	691.1	711.2	705.0	695.0	699.0	709.1
50°	602.7	588.6	578.5	576.6	628.8	668.8	687.0	687.0	691.1	699.0	709.1
52.5°	578.5	562.4	562.4	556.4	612.7	650.8	662.8	665.0	671.0	685.0	699.0
55°	548.4	542.4	548.4	538.3	600.6	636.8	642.8	646.9	650.8	662.8	683.0
57.5°	522.3	514.3	528.3	524.3	590.5	622.8	622.8	630.8	630.8	646.9	662.8
60°	508.3	492.2	498.2	502.1	576.6	610.6	606.6	614.7	618.7	632.8	644.8
62.5°	490.1	476.1	476.1	486.1	560.5	592.6	590.5	596.7	612.7	616.7	628.8
65°	468.0	462.0	456.0	468.0	544.4	572.5	574.4	582.6	596.7	600.6	610.6
67.5°	446.0	448.0	436.0	448.0	530.4	552.5	552.5	568.4	574.4	582.6	592.6
70°	421.8	423.8	413.8	427.9	520.3	530.4	528.3	550.4	554.4	560.5	570.6
72.5°	391.7	391.7	387.7	407.7	504.2	508.3	504.2	522.3	524.3	530.4	534.4
75°	359.6	359.6	355.5	383.7	494.2	484.1	472.1	486.1	490.1	494.2	494.2
77.5°	317.4	321.4	321.4	355.5	460.0	474.0	433.9	442.0	448.0	449.9	443.9
80°	265.2	275.3	279.2	323.4	385.6	437.9	387.7	393.8	395.7	395.7	387.7
82.5°	202.9	220.9	231.0	279.2	295.3	367.6	337.5	343.5	337.5	325.4	321.4
85°	140.6	164.8	176.8	212.9	223.0	283.2	281.3	281.3	269.3	253.2	251.1
87.5°	76.4	90.3	98.5	126.5	152.6	190.8	206.9	200.9	190.8	180.9	182.8
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°	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2
2.5°	11076.6	11349.8	11785.7	12119.1	12454.6	12778.1	13127.6	13394.7	13621.8	13710.2	13979.2
5°	8907.1	9248.6	9660.3	10403.6	10930.0	11510.5	12181.5	13069.3	13410.8	13882.9	14656.2
7.5°	6297.6	6607.0	7269.9	7870.5	8615.7	9437.4	10343.3	11568.7	12016.7	12774.0	14033.6
10°	4702.6	5062.2	5594.5	6100.7	6757.6	7597.4	8637.9	10007.9	10552.3	11373.9	12824.2
12.5°	3788.6	4212.5	4777.0	5253.0	5761.2	6353.9	7364.3	8866.9	9596.1	10315.2	11781.7
15°	2910.7	3354.7	3879.0	4483.7	5044.2	5682.9	6741.6	8384.8	9224.4	9973.7	11225.2
17.5°	2014.8	2394.5	3055.4	3686.2	4403.2	5220.9	6568.7	8487.3	9489.6	10353.4	11321.7
20°	1428.2	1645.2	2187.6	2918.8	3812.7	4839.2	6536.7	9025.6	10329.3	11315.7	11940.4
22.5°	1201.3	1281.6	1597.1	2267.9	3300.5	4553.9	6649.2	9780.9	11462.3	12721.8	12926.7
25°	1094.8	1143.0	1307.8	1779.9	2844.4	4347.1	7028.8	10905.8	12864.4	14128.0	14091.8
27.5°	1036.6	1086.8	1195.3	1502.7	2501.0	4218.5	7408.6	12239.7	14467.4	15654.6	15204.6
30°	1018.6	1086.8	1201.3	1416.2	2255.8	4015.6	7719.8	13410.8	15700.9	16685.2	15710.9
32.5°	1004.4	1014.5	1066.7	1221.4	2022.8	3778.6	7930.8	14461.4	16908.2	17665.5	16440.1
35°	811.6	861.7	946.1	1094.8	1886.3	3635.9	7930.8	15367.5	18097.3	18655.8	17135.1
37.5°	781.4	825.7	900.0	1026.5	1810.0	3565.6	7772.0	16241.3	19312.6	19778.7	17707.6
40°	765.4	801.5	871.8	974.3	1777.7	3485.3	7541.1	17012.6	20499.9	20903.7	18242.0
42.5°	753.4	785.5	851.7	942.2	1735.6	3396.9	7354.2	17631.2	21530.4	21863.9	18752.2
45°	747.3	781.4	853.8	958.2	1651.2	3280.4	7292.0	18300.3	22378.2	22665.4	19304.7
47.5°	747.3	787.4	863.8	992.4	1550.8	3159.9	7486.9	19182.1	23179.7	23320.3	19955.5
50°	741.3	785.5	891.9	958.2	1404.2	3007.2	7944.9	20292.9	24047.4	24063.5	20779.2
52.5°	729.2	781.4	960.2	938.1	1235.4	2806.4	8563.5	21719.2	25331.1	25427.5	22068.7
55°	715.1	775.4	942.2	891.9	1096.9	2567.3	9069.8	23452.8	27135.0	27402.2	23965.2
57.5°	697.1	767.3	912.0	827.6	1006.4	2259.9	9252.6	24722.4	28394.6	29065.4	26102.5
60°	681.0	761.3	823.6	789.5	950.1	2000.7	8899.0	24471.4	28308.1	29754.5	27996.8
62.5°	665.0	767.3	751.2	765.4	924.0	1834.0	7975.0	22460.5	26875.8	29043.4	29400.9
65°	646.9	713.1	709.1	745.2	918.0	1767.7	6610.9	19445.3	24107.7	26795.5	29732.4
67.5°	622.8	659.0	678.9	719.2	938.1	1709.5	5335.3	16040.4	20260.8	23426.8	28004.8
70°	596.7	626.7	648.9	687.0	926.1	1683.3	4437.4	12649.5	16076.5	19200.2	24595.9
72.5°	562.4	588.6	608.7	644.8	914.1	1669.4	3748.4	10186.7	12002.6	14262.6	19997.7
75°	522.3	546.4	560.5	596.7	875.8	1528.7	2946.9	8619.8	8981.4	9921.5	15927.9
77.5°	476.1	494.2	506.2	546.4	775.4	1271.6	2131.3	6649.2	6974.6	7203.6	12211.6
80°	421.8	439.9	446.0	484.1	642.8	994.4	1390.1	4911.5	5216.9	5269.1	7975.0
82.5°	359.6	377.7	377.7	413.8	526.3	715.1	912.0	3364.7	3425.1	3601.8	5636.6
85°	289.3	303.3	303.3	321.4	407.7	534.4	626.7	1689.3	1671.3	1908.3	4883.5
87.5°	206.9	217.0	227.0	231.0	291.2	353.6	377.7	514.3	339.5	389.7	3135.7
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2	12346.2
2.5°	14182.2	14296.7	14180.2	14095.9	13732.2	13432.9	13033.2	12828.2
5°	15244.8	15536.1	15437.7	15084.2	14324.9	13471.1	12500.8	12062.9
7.5°	15116.3	15793.2	15809.4	15148.5	14029.6	12772.0	11458.2	10835.6
10°	14115.9	14981.7	15228.8	14588.0	13400.7	11994.6	10488.1	9776.8
12.5°	12999.0	13846.8	14035.6	13814.6	12822.2	11410.1	9881.3	9184.3
15°	12084.9	12464.7	12689.7	12882.5	12326.1	11177.0	9847.2	9081.8
17.5°	11528.6	11486.4	11550.7	11886.1	11980.5	11444.2	10369.5	9525.8
20°	11327.7	10682.9	10666.8	11128.8	11817.8	12081.1	11389.9	10377.6
22.5°	11438.2	10393.7	10261.0	10809.4	11904.3	12999.0	12727.8	11572.7
25°	11819.8	10417.7	10311.3	10841.6	12217.6	13977.3	14172.1	13119.6
27.5°	12420.5	10570.4	10429.8	10974.1	12633.4	14798.9	15594.3	14618.2
30°	12990.9	10835.6	10660.8	11235.2	13013.1	15124.3	16466.3	15787.2
32.5°	13683.9	11331.8	11024.4	11715.4	13483.1	15642.6	17243.7	16755.5
35°	14363.0	12038.8	11657.1	12456.6	14007.5	16287.4	18131.5	17993.0
37.5°	15108.3	12962.8	12647.5	13414.9	14724.6	16896.1	19264.5	19443.2
40°	15903.8	14188.2	13814.6	14813.0	15837.4	17659.5	20447.7	20877.6
42.5°	16705.3	15548.1	15102.3	16114.6	17060.9	18412.7	21460.1	22096.9
45°	17623.3	17024.7	16813.7	17908.5	18236.0	19129.8	22207.4	22998.8
47.5°	18692.0	18700.0	19039.5	19477.4	19421.2	19941.5	22958.6	23804.5
50°	19939.5	20791.2	21540.5	21831.7	20642.6	20813.3	24001.3	24883.1
52.5°	21438.0	23292.1	24220.3	24029.4	21958.3	21878.0	25652.6	26369.6
55°	23312.2	25939.8	26861.8	26725.3	23471.0	23328.3	27709.6	28127.3
57.5°	25481.8	28504.9	29352.7	28738.0	25286.9	24919.3	29411.0	29499.4
60°	27388.1	30538.0	31281.2	30600.2	27118.9	26612.8	30473.6	30045.7
62.5°	28448.7	31227.0	31749.2	31016.0	28374.4	28416.5	30706.7	29750.4
65°	27974.6	29485.4	29654.0	29593.8	28051.0	29463.2	29869.0	28386.5
67.5°	25379.3	25082.0	25365.2	25757.0	25278.9	28085.2	27548.8	25415.5
70°	20807.3	19174.1	19738.6	20001.8	20218.7	24168.0	23910.9	20700.8
72.5°	15680.8	13432.9	13878.8	13824.6	14829.0	19385.0	18595.6	15220.8
75°	11110.7	9108.0	9164.2	9142.0	10347.4	15166.5	13465.0	10413.7
77.5°	7774.2	6598.9	6629.1	6753.7	6956.5	11438.2	9620.2	7607.4
80°	5345.4	5008.0	5174.7	5184.8	4821.2	7683.6	7107.2	6104.8
82.5°	3981.4	3481.2	3441.1	3499.3	3778.6	6225.3	5462.0	4234.6
85°	3260.3	2061.0	1657.3	2077.1	3348.7	6165.1	3628.0	2233.8
87.5°	1836.1	978.3	442.0	819.6	1335.9	4081.9	1048.6	285.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)