

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: P193078

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193078
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-10-LED-E1-SLR-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 50076.8 lumens
Efficiency: N/A
Efficacy: 89.7 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): 558
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



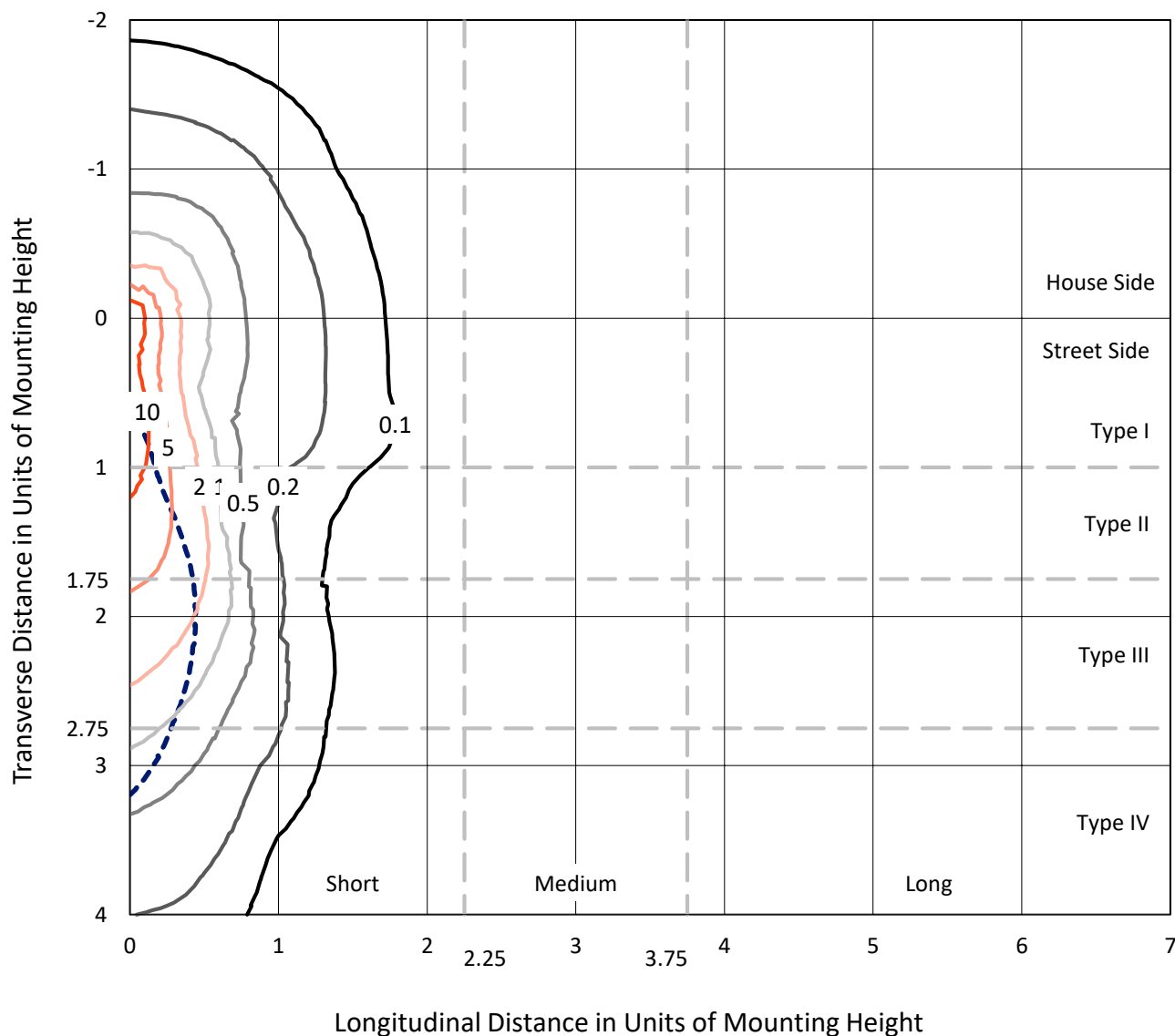
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

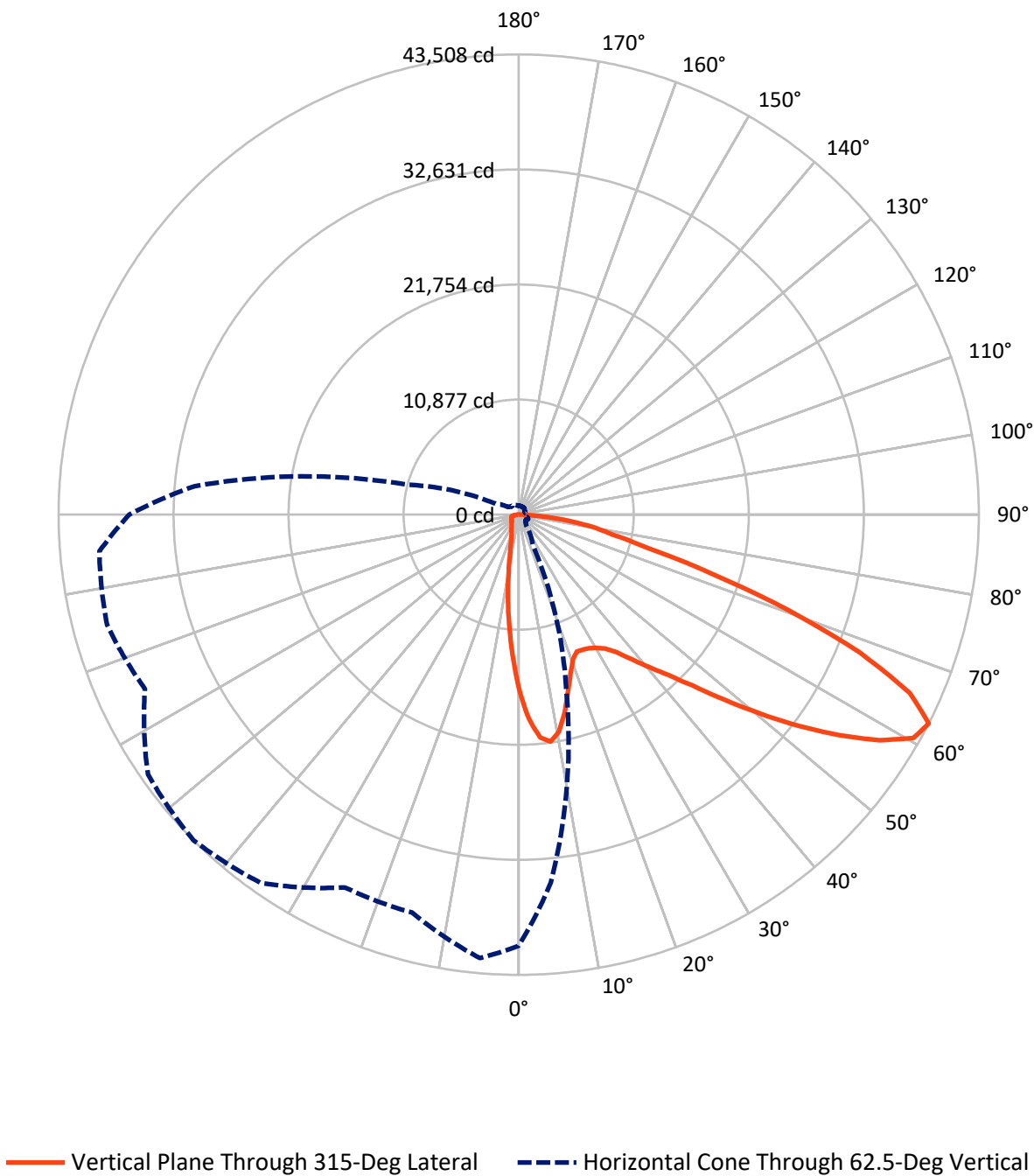


Based on 30 foot mounting height. Maximum calculated value = 18.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8287.0	0.0	8287.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	41789.8	0.0	41789.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	50076.8	0.0	50076.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1231.6	2.5
10°-20°	2258.4	4.5
20°-30°	3292.8	6.6
30°-40°	5071.3	10.1
40°-50°	7463.7	14.9
50°-60°	10947.6	21.9
60°-70°	12237.9	24.4
70°-80°	5991.5	12.0
80°-90°	1581.9	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°	50076.8	100.0
0°-180°	50076.8	100.0

Coefficient of Utilization



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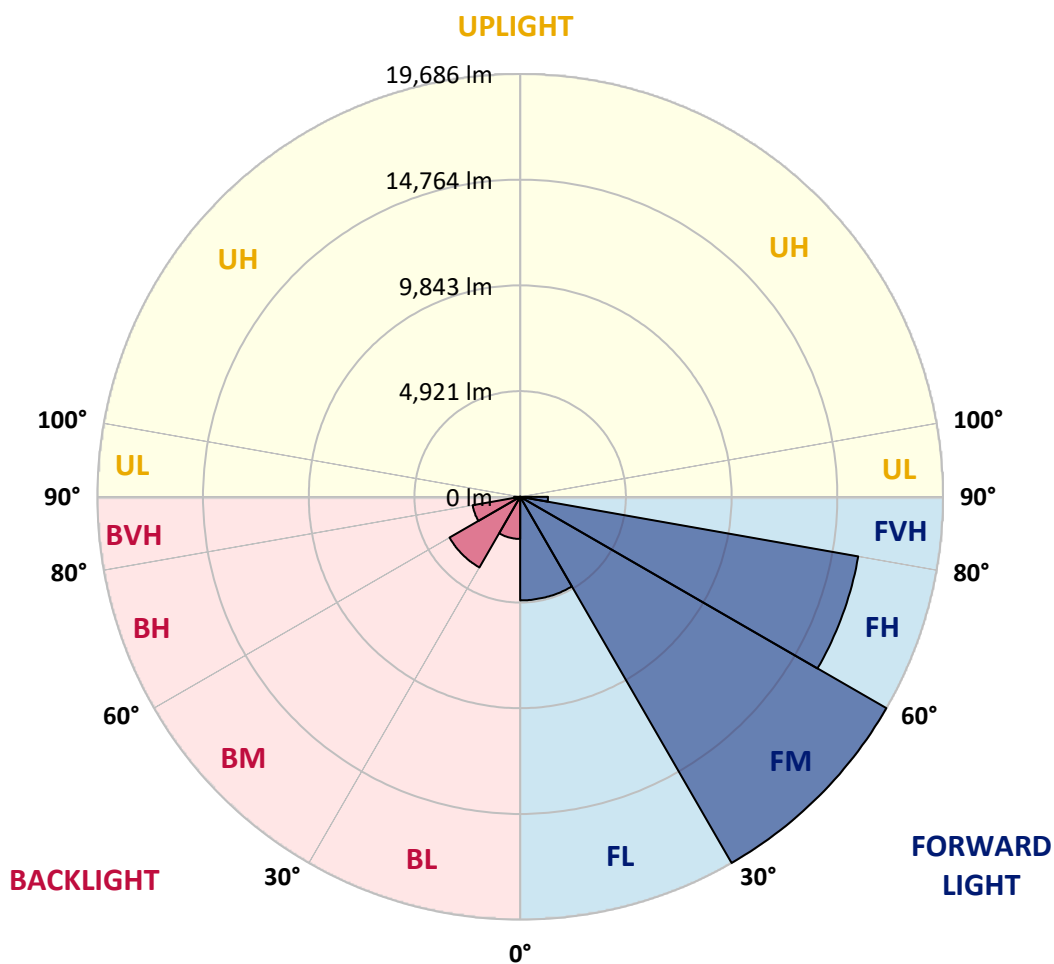
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4822.2	9.6			
FM	(30°-60°)	19685.6	39.3			
FH	(60°-80°)	15982.8	31.9			G5
FVH	(80°-90°)	1299.1	2.6			G5
BL	(0°-30°)	1960.6	3.9	B3/2500		
BM	(30°-60°)	3797.1	7.6	B3/5000		
BH	(60°-80°)	2246.6	4.5	B3/2500		G3/2500
BVH	(80°-90°)	282.8	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°	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7
2.5°	17579.3	17221.5	16626.8	16007.5	15630.3	15189.9	14845.8	14543.0	13937.3	13819.0	13926.4
5°	16530.5	15812.0	14691.6	13563.0	12811.5	12004.9	11377.2	10873.5	10105.5	9970.6	10133.0
7.5°	14848.6	13989.7	12508.6	11068.9	10006.4	8998.9	8321.7	7782.1	7182.0	6923.2	6939.8
10°	13397.8	12428.8	10678.0	9111.7	8241.9	7562.0	6992.0	6438.7	5830.4	5431.3	5321.2
12.5°	12585.8	11470.9	9453.1	8054.7	7248.0	6532.4	5918.5	5326.6	4677.0	4269.6	4153.9
15°	12445.4	11234.1	8993.3	7377.5	6367.2	5461.6	4737.6	4076.9	3407.9	3077.7	3008.8
17.5°	13053.7	11658.1	8844.7	6774.6	5538.6	4420.9	3531.8	2794.1	2249.0	2083.9	2070.1
20°	14220.8	12472.9	8825.4	6207.6	4721.0	3410.7	2460.9	1924.2	1684.7	1637.9	1640.6
22.5°	15858.8	13736.4	9062.2	5780.9	3969.5	2543.5	1849.9	1610.4	1516.7	1472.7	1472.7
25°	17978.5	15476.1	9607.2	5469.7	3317.1	2031.5	1632.5	1489.3	1401.1	1370.8	1376.4
27.5°	20032.0	17169.1	10240.4	5224.8	2890.5	1844.4	1547.1	1417.6	1340.6	1310.3	1324.1
30°	21634.2	18672.2	10768.9	4891.7	2672.9	1792.1	1577.3	1445.2	1335.1	1288.2	1291.0
32.5°	22961.1	19988.0	11212.0	4652.3	2480.3	1536.0	1359.8	1302.1	1288.2	1233.2	1205.6
35°	24656.7	21422.3	11509.4	4657.7	2389.4	1370.8	1211.2	1109.4	1035.0	971.8	971.8
37.5°	26644.3	23068.4	11826.0	4721.0	2356.4	1274.5	1158.9	1057.1	988.2	927.7	916.6
40°	28609.7	24681.5	12115.0	4781.6	2337.2	1216.7	1117.6	1024.1	960.7	900.2	883.7
42.5°	30280.6	26008.4	12373.8	4811.9	2271.1	1211.2	1087.3	1002.0	941.5	875.3	858.9
45°	31516.7	27120.5	12651.7	4858.6	2205.0	1233.2	1087.3	999.2	925.0	861.6	845.1
47.5°	32620.6	28425.3	13117.0	4858.6	2125.2	1191.9	1123.1	1002.0	922.1	856.1	842.4
50°	34098.8	30214.5	13998.0	4745.7	2012.3	1147.9	1183.8	991.0	897.4	845.1	828.6
52.5°	36135.9	32507.7	15396.4	4550.3	1838.9	1062.5	1175.4	985.5	872.7	817.6	798.3
55°	38544.6	34963.2	16921.4	4321.9	1580.1	1002.0	1134.1	971.8	845.1	784.6	765.3
57.5°	40424.8	36653.4	17995.0	3969.5	1354.4	969.0	1004.7	957.9	812.2	748.8	732.2
60°	41173.5	36587.3	18289.6	3498.8	1244.3	941.5	878.1	1073.6	784.6	721.2	702.0
62.5°	40768.8	34897.1	17463.7	3168.4	1219.5	905.6	823.0	993.7	762.5	702.0	674.4
65°	38899.7	31902.1	15275.2	3080.3	1291.0	869.9	787.3	779.0	732.2	674.4	647.0
67.5°	34828.2	27426.0	12230.6	3088.6	1381.9	834.0	751.4	713.0	690.9	644.2	619.4
70°	28367.5	21683.7	9117.2	3110.6	1428.7	792.7	713.0	671.7	647.0	600.2	583.6
72.5°	20857.9	16712.2	6623.2	2967.5	1437.0	746.0	660.7	624.9	600.2	550.5	536.8
75°	14270.5	12784.0	4594.4	2458.3	1252.5	679.9	602.9	569.8	553.3	492.8	484.4
77.5°	10424.9	9596.2	2939.9	1825.0	966.2	597.3	531.3	506.5	495.5	429.4	418.5
80°	8365.8	7592.2	1838.9	1249.8	707.5	501.0	446.0	432.2	421.2	355.1	346.9
82.5°	5802.9	5084.4	1181.0	812.2	531.3	388.1	352.4	346.9	330.3	269.8	261.5
85°	3061.1	2761.1	748.8	553.3	385.3	267.0	245.0	245.0	236.8	178.9	173.4
87.5°	390.9	635.9	379.9	289.0	212.0	118.3	118.3	115.6	123.9	101.8	88.1
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°	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7
2.5°	13673.1	13805.2	13678.6	13686.9	13827.3	14245.7	14435.7	14592.5	14760.5	14870.5	14920.1
5°	9910.1	10218.4	10323.0	10543.2	10868.0	11402.1	11614.0	11768.2	11870.0	11930.6	11955.3
7.5°	6777.4	6964.5	7173.8	7528.8	8236.3	8550.2	8690.6	8654.8	8539.1	8497.8	8456.5
10°	5109.2	5034.8	4996.3	5191.8	5764.3	6081.0	6180.0	6083.7	6020.3	6034.1	6102.9
12.5°	3958.5	3829.1	3672.2	3650.3	4027.3	4310.9	4374.2	4379.6	4495.3	4597.2	4748.5
15°	2884.9	2871.2	2794.1	2747.4	2962.0	3193.2	3220.8	3270.3	3374.9	3449.2	3581.4
17.5°	2034.3	2108.6	2169.3	2199.5	2361.8	2527.0	2496.8	2472.0	2452.8	2452.8	2516.0
20°	1640.6	1690.2	1767.3	1855.3	2020.5	2136.1	2061.8	1962.8	1891.2	1869.1	1877.4
22.5°	1478.3	1516.7	1560.9	1637.9	1786.6	1866.3	1786.6	1715.0	1643.4	1618.6	1610.4
25°	1395.7	1445.2	1486.5	1544.3	1654.4	1709.5	1632.5	1580.1	1536.0	1505.8	1483.7
27.5°	1349.0	1392.9	1403.9	1431.4	1525.0	1574.7	1536.0	1514.0	1486.5	1458.9	1431.4
30°	1299.3	1291.0	1271.8	1274.5	1349.0	1398.4	1395.7	1401.1	1398.4	1390.1	1384.7
32.5°	1186.4	1169.9	1153.4	1169.9	1238.8	1282.8	1285.6	1296.6	1296.6	1293.8	1315.8
35°	988.2	1018.6	1037.9	1087.3	1169.9	1208.5	1191.9	1164.3	1114.9	1084.6	1081.8
37.5°	914.0	919.4	952.4	1021.2	1112.1	1147.9	1123.1	1059.9	1026.8	1021.2	1029.6
40°	878.1	883.7	902.9	966.2	1057.1	1092.8	1070.8	1024.1	993.7	991.0	1004.7
42.5°	853.4	858.9	869.9	914.0	988.2	1032.3	1035.0	1002.0	966.2	969.0	982.8
45°	839.5	842.4	839.5	861.6	930.5	982.8	1004.7	982.8	952.4	957.9	974.5
47.5°	836.8	828.6	817.6	823.0	894.7	947.0	974.5	966.2	952.4	957.9	971.8
50°	825.9	806.6	792.7	790.1	861.6	916.6	941.5	941.5	947.0	957.9	971.8
52.5°	792.7	770.9	770.9	762.5	839.5	891.9	908.4	911.2	919.4	938.7	957.9
55°	751.4	743.3	751.4	737.7	823.0	872.7	880.8	886.4	891.9	908.4	936.0
57.5°	715.7	704.7	724.0	718.5	809.3	853.4	853.4	864.4	864.4	886.4	908.4
60°	696.4	674.4	682.7	688.3	790.1	836.8	831.4	842.4	847.9	867.1	883.7
62.5°	671.7	652.4	652.4	666.2	768.0	812.2	809.3	817.6	839.5	845.1	861.6
65°	641.4	633.1	624.9	641.4	746.0	784.6	787.3	798.3	817.6	823.0	836.8
67.5°	611.1	613.8	597.3	613.8	726.7	757.0	757.0	779.0	787.3	798.3	812.2
70°	578.1	580.8	567.0	586.4	713.0	726.7	724.0	754.2	759.8	768.0	781.7
72.5°	536.8	536.8	531.3	558.9	690.9	696.4	690.9	715.7	718.5	726.7	732.2
75°	492.8	492.8	487.3	525.7	677.2	663.4	647.0	666.2	671.7	677.2	677.2
77.5°	435.0	440.5	440.5	487.3	630.4	649.6	594.6	605.7	613.8	616.7	608.3
80°	363.4	377.2	382.6	443.1	528.5	600.2	531.3	539.5	542.3	542.3	531.3
82.5°	278.1	302.7	316.6	382.6	404.7	503.8	462.5	470.7	462.5	446.0	440.5
85°	192.8	225.7	242.2	291.8	305.6	388.1	385.3	385.3	368.9	346.9	344.0
87.5°	104.6	123.9	134.9	173.4	209.2	261.5	283.5	275.4	261.5	247.8	250.5
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°	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7
2.5°	15178.9	15553.3	16150.6	16607.6	17067.3	17510.4	17989.4	18355.5	18666.6	18787.7	19156.7
5°	12205.9	12673.8	13238.2	14256.7	14978.0	15773.4	16692.9	17909.7	18377.6	19024.5	20084.4
7.5°	8630.0	9053.9	9962.4	10785.4	11806.7	12932.6	14174.1	15853.3	16467.2	17505.0	19230.9
10°	6444.3	6937.0	7666.5	8360.2	9260.4	10411.1	11837.0	13714.4	14460.4	15586.3	17573.8
12.5°	5191.8	5772.6	6546.2	7198.5	7895.0	8707.1	10091.7	12150.8	13150.1	14135.5	16145.1
15°	3988.8	4597.2	5315.7	6144.2	6912.3	7787.7	9238.3	11490.1	12640.9	13667.6	15382.6
17.5°	2761.1	3281.3	4187.1	5051.4	6034.1	7154.6	9001.7	11630.5	13004.1	14187.9	15514.7
20°	1957.3	2254.6	2997.7	3999.8	5224.8	6631.5	8957.6	12368.2	14154.9	15506.5	16362.5
22.5°	1646.2	1756.3	2188.5	3107.9	4522.8	6240.6	9111.7	13403.4	15707.4	17433.4	17714.2
25°	1500.2	1566.3	1792.1	2439.0	3898.0	5957.1	9632.0	14944.9	17628.9	19360.4	19310.8
27.5°	1420.5	1489.3	1637.9	2059.1	3427.3	5780.9	10152.3	16772.7	19825.5	21452.5	20835.8
30°	1395.7	1489.3	1646.2	1940.7	3091.4	5502.9	10578.9	18377.6	21515.8	22864.6	21529.5
32.5°	1376.4	1390.1	1461.8	1673.8	2772.0	5178.1	10868.0	19817.3	23170.2	24208.0	22528.8
35°	1112.1	1181.0	1296.6	1500.2	2584.8	4982.6	10868.0	21058.8	24799.8	25565.1	23481.2
37.5°	1070.8	1131.4	1233.2	1406.7	2480.3	4886.2	10650.6	22256.3	26465.4	27104.0	24265.8
40°	1048.8	1098.4	1194.8	1335.1	2436.3	4776.0	10334.0	23313.4	28092.2	28645.5	24998.1
42.5°	1032.3	1076.3	1167.2	1291.0	2378.3	4655.0	10078.0	24161.3	29504.4	29961.4	25697.2
45°	1024.1	1070.8	1169.9	1313.1	2262.8	4495.3	9992.7	25078.0	30666.1	31059.6	26454.3
47.5°	1024.1	1079.1	1183.8	1359.8	2125.2	4330.2	10259.7	26286.3	31764.4	31957.1	27346.2
50°	1015.8	1076.3	1222.3	1313.1	1924.2	4120.9	10887.2	27808.6	32953.6	32975.6	28474.8
52.5°	999.2	1070.8	1315.8	1285.6	1693.0	3845.6	11735.1	29763.2	34712.6	34844.9	30242.1
55°	979.9	1062.5	1291.0	1222.3	1503.0	3518.0	12428.8	32138.8	37184.6	37550.8	32840.8
57.5°	955.3	1051.5	1249.8	1134.1	1379.2	3096.9	12679.3	33878.6	38910.7	39830.1	35769.8
60°	933.2	1043.3	1128.6	1081.8	1302.1	2741.8	12194.9	33534.5	38792.3	40774.4	38365.7
62.5°	911.2	1051.5	1029.6	1048.8	1266.4	2513.3	10928.5	30778.9	36829.5	39799.9	40289.8
65°	886.4	977.3	971.8	1021.2	1258.0	2422.5	9059.4	26647.0	33036.1	36719.5	40744.0
67.5°	853.4	902.9	930.5	985.5	1285.6	2342.6	7311.4	21981.0	27764.6	32103.0	38376.7
70°	817.6	858.9	889.2	941.5	1269.0	2306.8	6081.0	17334.3	22030.6	26311.2	33705.2
72.5°	770.9	806.6	834.0	883.7	1252.5	2287.6	5136.8	13959.4	16447.9	19544.9	27404.0
75°	715.7	748.8	768.0	817.6	1200.2	2094.8	4038.3	11812.2	12307.7	13596.0	21826.8
77.5°	652.4	677.2	693.7	748.8	1062.5	1742.4	2920.7	9111.7	9557.7	9871.5	16734.1
80°	578.1	602.9	611.1	663.4	880.8	1362.7	1904.9	6730.6	7149.0	7220.6	10928.5
82.5°	492.8	517.6	517.6	567.0	721.2	979.9	1249.8	4611.0	4693.6	4935.8	7724.3
85°	396.4	415.6	415.6	440.5	558.9	732.2	858.9	2315.1	2290.3	2615.1	6692.0
87.5°	283.5	297.3	311.1	316.6	399.2	484.4	517.6	704.7	465.2	534.1	4297.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7	16918.7
2.5°	19434.7	19591.6	19432.0	19316.3	18818.0	18407.9	17860.1	17579.3
5°	20890.9	21290.0	21155.3	20670.6	19630.2	18460.2	17130.6	16530.5
7.5°	20714.7	21642.4	21664.5	20758.8	19225.5	17502.2	15701.8	14848.6
10°	19343.8	20530.3	20868.8	19990.7	18363.9	16436.9	14372.3	13397.8
12.5°	17813.3	18974.9	19233.8	18931.0	17571.1	15635.9	13540.9	12585.8
15°	16560.8	17081.0	17389.3	17653.7	16891.2	15316.5	13494.2	12445.4
17.5°	15798.3	15740.4	15828.5	16288.3	16417.7	15682.6	14209.9	13053.7
20°	15523.0	14639.3	14617.4	15250.4	16194.6	16555.3	15608.3	14220.8
22.5°	15674.4	14242.9	14061.2	14812.8	16313.1	17813.3	17441.7	15858.8
25°	16197.3	14276.0	14130.1	14856.7	16742.5	19153.9	19421.0	17978.5
27.5°	17020.5	14485.1	14292.5	15038.5	17312.2	20279.8	21369.9	20032.0
30°	17802.2	14848.6	14609.0	15396.4	17832.5	20725.7	22564.7	21634.2
32.5°	18751.9	15528.5	15107.3	16054.2	18476.8	21436.0	23629.9	22961.1
35°	19682.4	16497.5	15974.5	17070.0	19195.2	22319.6	24846.6	24656.7
37.5°	20703.7	17763.7	17331.6	18383.1	20177.9	23153.6	26399.2	26644.3
40°	21793.8	19442.9	18931.0	20299.1	21702.9	24199.8	28020.6	28609.7
42.5°	22892.2	21306.5	20695.5	22082.8	23379.4	25232.2	29408.0	30280.6
45°	24150.2	23329.9	23040.8	24541.2	24989.8	26214.8	30432.1	31516.7
47.5°	25614.7	25625.6	26090.9	26691.1	26613.9	27327.0	31461.6	32620.6
50°	27324.2	28491.3	29518.1	29917.3	28287.7	28521.7	32890.4	34098.8
52.5°	29377.7	31918.6	33190.3	32928.9	30090.8	29980.6	35153.1	36135.9
55°	31946.1	35546.7	36810.3	36623.0	32163.6	31968.1	37972.0	38544.6
57.5°	34919.2	39062.1	40223.8	39381.4	34652.1	34148.3	40303.5	40424.8
60°	37531.5	41847.9	42866.4	41933.2	37162.7	36469.0	41759.8	41173.5
62.5°	38985.1	42792.2	43507.8	42503.1	38883.1	38941.0	42079.1	40768.8
65°	38335.4	40405.3	40636.7	40554.1	38439.9	40375.1	40931.2	38899.7
67.5°	34778.8	34371.4	34759.4	35296.2	34641.0	38486.8	37751.7	34828.2
70°	28513.4	26275.3	27048.9	27409.6	27706.8	33118.7	32766.5	28367.5
72.5°	21488.2	18407.9	19019.0	18944.7	20321.1	26564.4	25482.5	20857.9
75°	15225.8	12481.1	12558.3	12528.0	14179.6	20783.6	18451.9	14270.5
77.5°	10653.4	9043.0	9084.3	9255.0	9532.9	15674.4	13183.1	10424.9
80°	7325.2	6862.7	7091.2	7104.9	6606.7	10529.5	9739.4	8365.8
82.5°	5456.1	4770.6	4715.5	4795.4	5178.1	8530.9	7484.8	5802.9
85°	4467.8	2824.4	2271.1	2846.4	4588.9	8448.4	4971.6	3061.1
87.5°	2516.0	1340.6	605.7	1123.1	1830.6	5593.6	1437.0	390.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)