

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: P192138

Luminaire Tested: **GLEON-AF-10-LED-E1-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192138
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 51777 lumens
Efficiency: N/A
Efficacy: 92.8 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

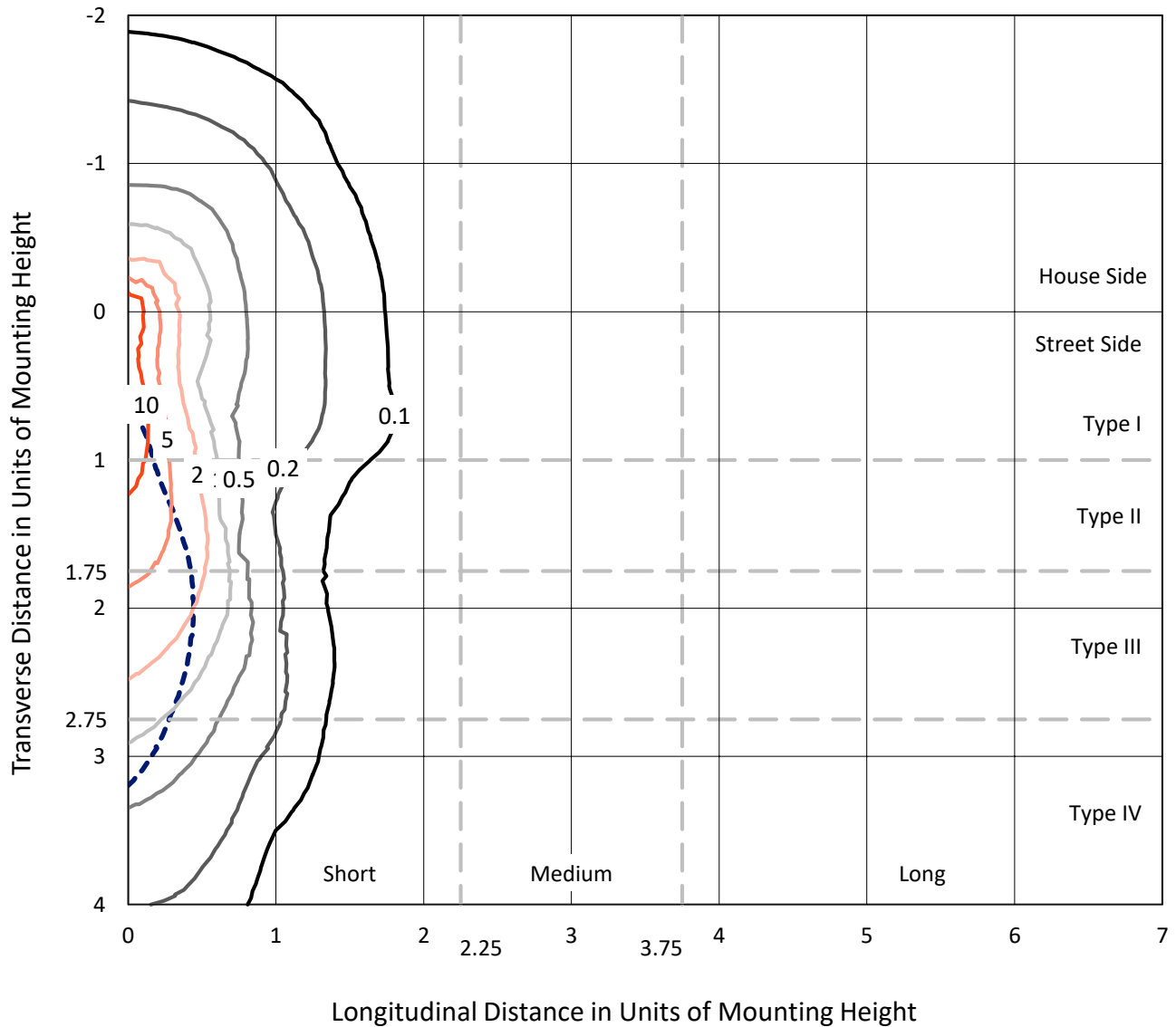
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

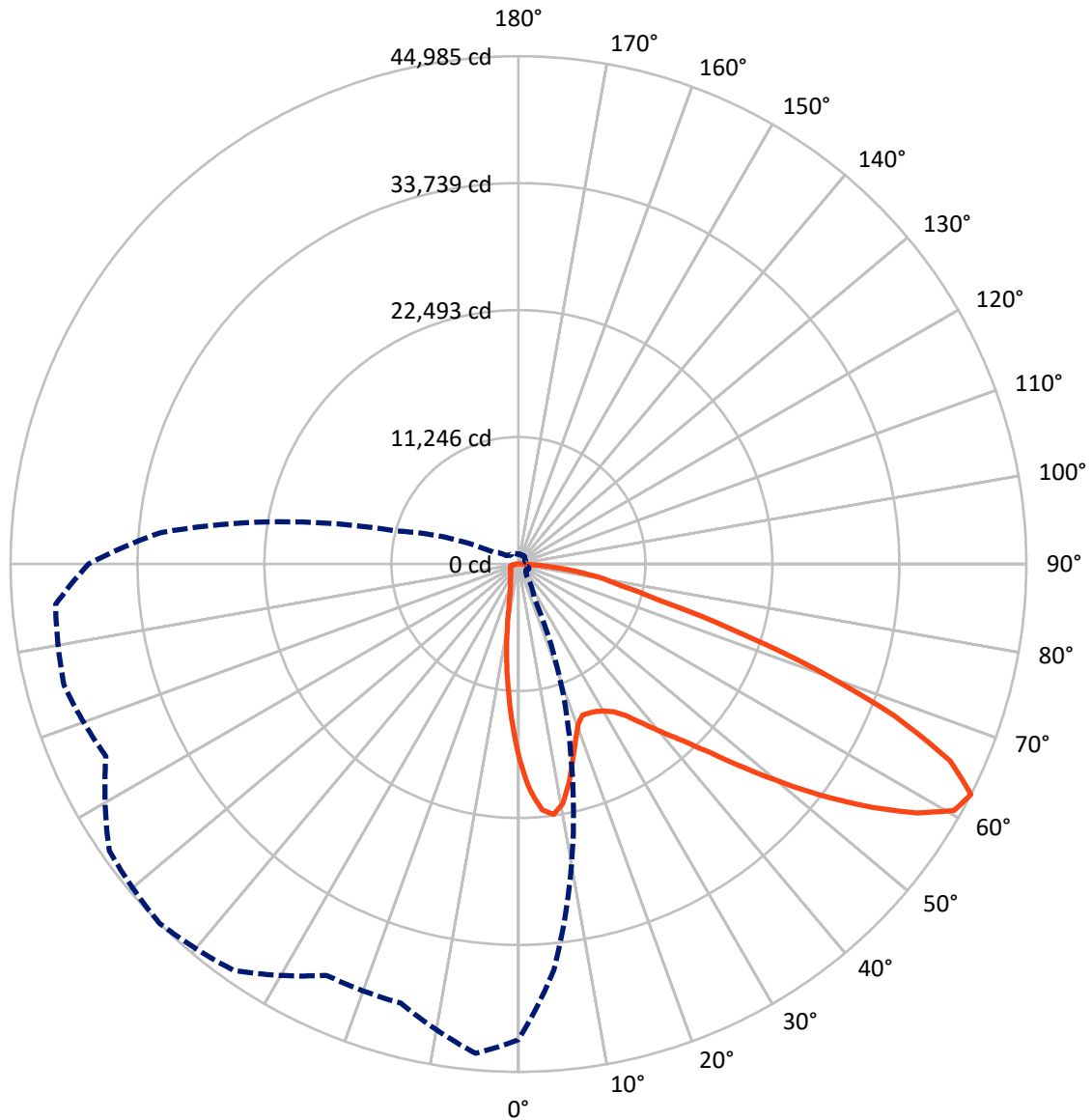
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 19.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8568.4	0.0	8568.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	43208.6	0.0	43208.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	51777.0	0.0	51777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1273.4	2.5
10°-20°	2335.1	4.5
20°-30°	3404.6	6.6
30°-40°	5243.5	10.1
40°-50°	7717.1	14.9
50°-60°	11319.3	21.9
60°-70°	12653.4	24.4
70°-80°	6194.9	12.0
80°-90°	1635.6	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°	51777.0	100.0
0°-180°	51777.0	100.0

Coefficient of Utilization



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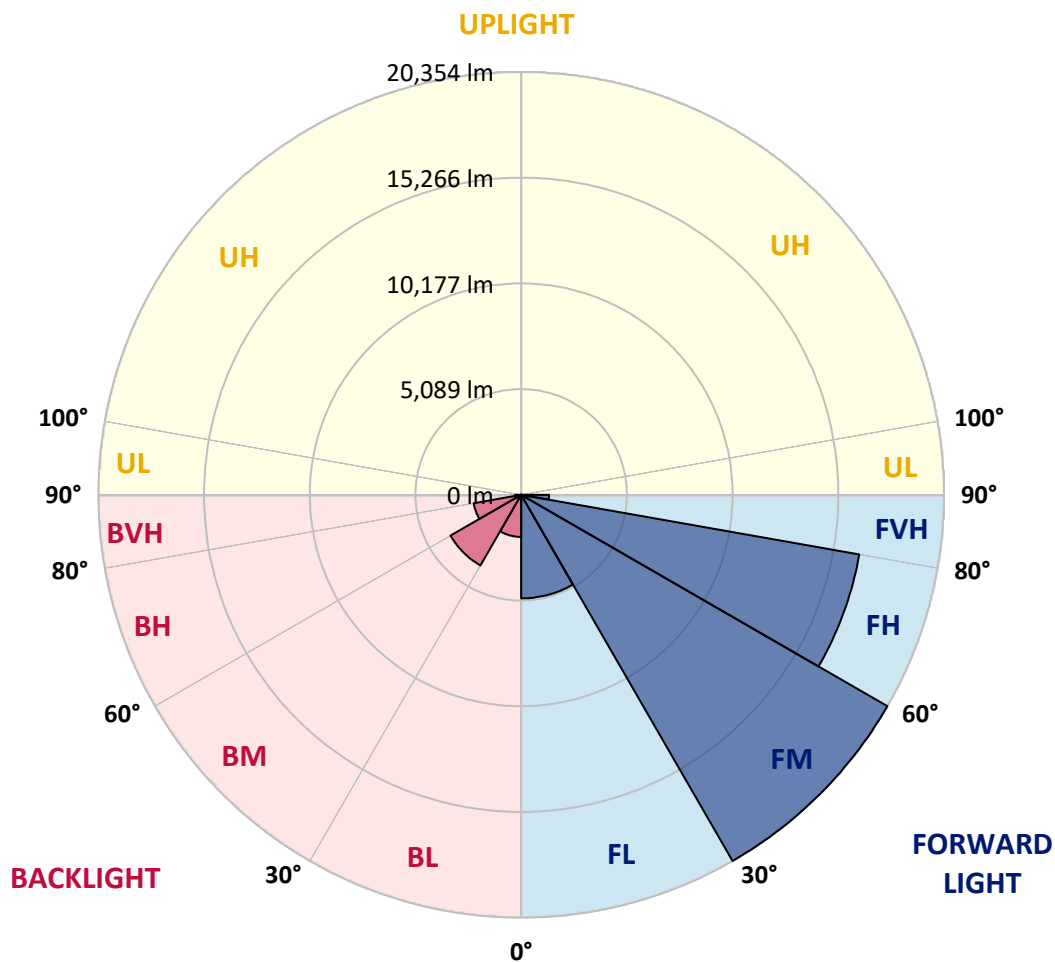
CATALOG NUMBER: GLEON-AF-10-LED-E1-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4986.0	9.6			
FM	(30°-60°)	20354.0	39.3			
FH	(60°-80°)	16525.4	31.9			G5
FVH	(80°-90°)	1343.2	2.6			G5
BL	(0°-30°)	2027.1	3.9	B3/2500		
BM	(30°-60°)	3926.0	7.6	B3/5000		
BH	(60°-80°)	2322.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	292.4	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°	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1
2.5°	18176.2	17806.1	17191.4	16551.0	16161.0	15705.6	15349.8	15036.7	14410.6	14288.2	14399.2
5°	17091.7	16348.9	15190.4	14023.5	13246.5	12412.5	11763.6	11242.7	10448.6	10309.1	10477.1
7.5°	15352.7	14464.6	12933.4	11444.8	10346.1	9304.4	8604.2	8046.4	7425.9	7158.3	7175.4
10°	13852.7	12850.8	11040.6	9421.1	8521.7	7818.7	7229.5	6657.4	6028.4	5615.7	5501.8
12.5°	13013.1	11860.3	9774.0	8328.1	7494.2	6754.2	6119.4	5507.5	4835.8	4414.5	4295.0
15°	12867.9	11615.6	9298.7	7628.0	6583.4	5647.0	4898.4	4215.3	3523.7	3182.1	3111.0
17.5°	13496.9	12053.9	9145.0	7004.6	5726.7	4571.1	3651.7	2888.9	2325.4	2154.6	2140.4
20°	14703.7	12896.4	9125.1	6418.3	4881.3	3526.5	2544.5	1989.5	1741.9	1693.5	1696.4
22.5°	16397.3	14202.8	9369.9	5977.1	4104.3	2629.9	1912.7	1665.1	1568.3	1522.7	1522.7
25°	18588.9	16001.6	9933.4	5655.5	3429.7	2100.5	1687.8	1539.8	1448.7	1417.4	1423.1
27.5°	20712.2	17752.1	10588.1	5402.2	2988.6	1907.0	1599.6	1465.8	1386.1	1354.8	1369.0
30°	22368.7	19306.1	11134.5	5057.8	2763.7	1852.9	1630.9	1494.3	1380.4	1332.0	1334.9
32.5°	23740.6	20666.6	11592.8	4810.2	2564.5	1588.2	1406.0	1346.3	1332.0	1275.1	1246.7
35°	25493.9	22149.5	11900.2	4815.9	2470.5	1417.4	1252.4	1147.0	1070.2	1004.7	1004.7
37.5°	27548.9	23851.6	12227.5	4881.3	2436.4	1317.8	1198.3	1093.0	1021.8	959.2	947.8
40°	29581.1	25519.5	12526.4	4943.9	2416.5	1258.0	1155.6	1058.8	993.3	930.7	913.6
42.5°	31308.8	26891.4	12793.9	4975.2	2348.2	1252.4	1124.3	1036.0	973.4	905.1	888.0
45°	32586.7	28041.3	13081.4	5023.6	2279.8	1275.1	1124.3	1033.2	956.3	890.9	873.8
47.5°	33728.1	29390.4	13562.4	5023.6	2197.3	1232.4	1161.3	1036.0	953.5	885.2	871.0
50°	35256.5	31240.5	14473.2	4906.9	2080.6	1186.9	1223.9	1024.7	927.9	873.8	856.7
52.5°	37362.7	33611.4	15919.1	4704.9	1901.3	1098.7	1215.3	1019.0	902.3	845.3	825.4
55°	39853.2	36150.2	17495.9	4468.6	1633.7	1036.0	1172.7	1004.7	873.8	811.2	791.3
57.5°	41797.2	37897.8	18605.9	4104.3	1400.4	1001.9	1038.9	990.5	839.6	774.2	757.1
60°	42571.4	37829.5	18910.5	3617.6	1286.5	973.4	908.0	1110.0	811.2	745.7	725.8
62.5°	42153.0	36081.9	18056.6	3276.0	1260.9	936.4	851.0	1027.5	788.4	725.8	697.3
65°	40220.4	32985.2	15793.8	3185.0	1334.9	899.4	814.0	805.5	757.1	697.3	668.9
67.5°	36010.8	28357.2	12645.9	3193.5	1428.8	862.4	777.0	737.2	714.4	666.0	640.4
70°	29330.6	22419.9	9426.8	3216.3	1477.2	819.7	737.2	694.5	668.9	620.5	603.4
72.5°	21566.0	17279.6	6848.1	3068.3	1485.7	771.3	683.1	646.1	620.5	569.3	555.0
75°	14755.0	13218.0	4750.4	2541.7	1295.0	703.0	623.3	589.2	572.1	509.5	500.9
77.5°	10778.8	9922.0	3039.8	1887.1	999.0	617.6	549.3	523.7	512.3	444.0	432.6
80°	8649.8	7850.0	1901.3	1292.2	731.5	518.0	461.1	446.9	435.5	367.2	358.6
82.5°	5999.9	5257.0	1221.0	839.6	549.3	401.3	364.3	358.6	341.6	278.9	270.4
85°	3165.0	2854.8	774.2	572.1	398.5	276.1	253.3	253.3	244.8	185.0	179.3
87.5°	404.2	657.5	392.8	298.9	219.2	122.4	122.4	119.5	128.1	105.3	91.1
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°	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1
2.5°	14137.3	14273.9	14143.0	14151.6	14296.7	14729.3	14925.7	15088.0	15261.6	15375.4	15426.7
5°	10246.5	10565.3	10673.4	10901.1	11237.0	11789.2	12008.3	12167.7	12273.0	12335.7	12361.3
7.5°	7007.5	7201.0	7417.3	7784.5	8516.0	8840.5	8985.6	8948.6	8829.1	8786.4	8743.7
10°	5282.6	5205.8	5165.9	5368.0	5960.0	6287.4	6389.8	6290.2	6224.8	6239.0	6310.1
12.5°	4092.9	3959.1	3796.9	3774.1	4164.1	4457.2	4522.7	4528.4	4647.9	4753.2	4909.8
15°	2982.9	2968.6	2888.9	2840.6	3062.6	3301.7	3330.1	3381.3	3489.5	3566.4	3703.0
17.5°	2103.4	2180.2	2242.8	2274.2	2442.1	2612.9	2581.5	2555.9	2536.0	2536.0	2601.5
20°	1696.4	1747.6	1827.3	1918.4	2089.1	2208.7	2131.8	2029.4	1955.4	1932.6	1941.1
22.5°	1528.4	1568.3	1613.8	1693.5	1847.2	1929.8	1847.2	1773.2	1699.2	1673.6	1665.1
25°	1443.0	1494.3	1537.0	1596.7	1710.6	1767.5	1687.8	1633.7	1588.2	1556.9	1534.1
27.5°	1394.7	1440.2	1451.6	1480.1	1576.8	1628.1	1588.2	1565.4	1537.0	1508.5	1480.1
30°	1343.4	1334.9	1315.0	1317.8	1394.7	1445.9	1443.0	1448.7	1445.9	1437.4	1431.7
32.5°	1226.7	1209.7	1192.6	1209.7	1280.8	1326.4	1329.2	1340.6	1340.6	1337.7	1360.5
35°	1021.8	1053.1	1073.0	1124.3	1209.7	1249.5	1232.4	1204.0	1152.7	1121.4	1118.6
37.5°	945.0	950.6	984.8	1056.0	1149.9	1186.9	1161.3	1095.8	1061.7	1056.0	1064.5
40°	908.0	913.6	933.6	999.0	1093.0	1130.0	1107.2	1058.8	1027.5	1024.7	1038.9
42.5°	882.3	888.0	899.4	945.0	1021.8	1067.3	1070.2	1036.0	999.0	1001.9	1016.1
45°	868.1	871.0	868.1	890.9	962.0	1016.1	1038.9	1016.1	984.8	990.5	1007.6
47.5°	865.3	856.7	845.3	851.0	925.0	979.1	1007.6	999.0	984.8	990.5	1004.7
50°	853.9	834.0	819.7	816.9	890.9	947.8	973.4	973.4	979.1	990.5	1004.7
52.5°	819.7	797.0	797.0	788.4	868.1	922.2	939.3	942.1	950.6	970.6	990.5
55°	777.0	768.5	777.0	762.8	851.0	902.3	910.8	916.5	922.2	939.3	967.7
57.5°	740.0	728.6	748.6	742.9	836.8	882.3	882.3	893.7	893.7	916.5	939.3
60°	720.1	697.3	705.9	711.6	816.9	865.3	859.6	871.0	876.6	896.6	913.6
62.5°	694.5	674.6	674.6	688.8	794.1	839.6	836.8	845.3	868.1	873.8	890.9
65°	663.2	654.6	646.1	663.2	771.3	811.2	814.0	825.4	845.3	851.0	865.3
67.5°	631.9	634.7	617.6	634.7	751.4	782.7	782.7	805.5	814.0	825.4	839.6
70°	597.7	600.6	586.3	606.3	737.2	751.4	748.6	779.9	785.6	794.1	808.3
72.5°	555.0	555.0	549.3	577.8	714.4	720.1	714.4	740.0	742.9	751.4	757.1
75°	509.5	509.5	503.8	543.6	700.2	685.9	668.9	688.8	694.5	700.2	700.2
77.5°	449.7	455.4	455.4	503.8	651.8	671.7	614.8	626.2	634.7	637.6	629.0
80°	375.7	389.9	395.6	458.2	546.5	620.5	549.3	557.9	560.7	560.7	549.3
82.5°	287.5	313.1	327.3	395.6	418.4	520.9	478.2	486.7	478.2	461.1	455.4
85°	199.2	233.4	250.5	301.7	315.9	401.3	398.5	398.5	381.4	358.6	355.8
87.5°	108.2	128.1	139.5	179.3	216.3	270.4	293.2	284.6	270.4	256.2	259.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1
2.5°	15694.2	16081.3	16699.0	17171.4	17646.8	18105.0	18600.3	18978.8	19300.4	19425.7	19807.1
5°	12620.3	13104.1	13687.6	14740.7	15486.5	16309.0	17259.7	18517.7	19001.6	19670.4	20766.2
7.5°	8923.0	9361.3	10300.6	11151.6	12207.6	13371.7	14655.3	16391.6	17026.3	18099.3	19883.9
10°	6663.1	7172.6	7926.8	8644.1	9574.8	10764.5	12238.9	14180.0	14951.4	16115.5	18170.5
12.5°	5368.0	5968.6	6768.4	7442.9	8163.0	9002.7	10434.4	12563.4	13596.5	14615.5	16693.3
15°	4124.2	4753.2	5496.1	6352.8	7146.9	8052.0	9552.0	11880.3	13070.0	14131.6	15904.9
17.5°	2854.8	3392.7	4329.1	5222.9	6239.0	7397.4	9307.2	12025.4	13445.7	14669.6	16041.5
20°	2023.7	2331.1	3099.6	4135.6	5402.2	6856.6	9261.7	12788.2	14635.4	16032.9	16918.1
22.5°	1702.1	1815.9	2262.8	3213.4	4676.4	6452.5	9421.1	13858.4	16240.7	18025.3	18315.6
25°	1551.2	1619.5	1852.9	2521.8	4030.3	6159.3	9959.0	15452.3	18227.4	20017.7	19966.5
27.5°	1468.7	1539.8	1693.5	2129.0	3543.6	5977.1	10497.0	17342.2	20498.7	22180.8	21543.3
30°	1443.0	1539.8	1702.1	2006.6	3196.3	5689.7	10938.1	19001.6	22246.3	23641.0	22260.5
32.5°	1423.1	1437.4	1511.4	1730.5	2866.2	5353.8	11237.0	20490.2	23956.9	25029.9	23293.7
35°	1149.9	1221.0	1340.6	1551.2	2672.6	5151.7	11237.0	21773.8	25641.9	26433.1	24278.5
37.5°	1107.2	1169.8	1275.1	1454.4	2564.5	5052.1	11012.1	23011.9	27363.9	28024.2	25089.7
40°	1084.4	1135.7	1235.3	1380.4	2518.9	4938.2	10684.8	24104.9	29046.0	29618.1	25846.8
42.5°	1067.3	1112.9	1206.8	1334.9	2459.2	4813.0	10420.1	24981.5	30506.1	30978.6	26569.8
45°	1058.8	1107.2	1209.7	1357.7	2339.6	4647.9	10331.9	25929.3	31707.2	32114.3	27352.5
47.5°	1058.8	1115.7	1223.9	1406.0	2197.3	4477.2	10608.0	27178.9	32842.9	33042.1	28274.7
50°	1050.3	1112.9	1263.7	1357.7	1989.5	4260.8	11256.9	28752.8	34072.5	34095.2	29441.6
52.5°	1033.2	1107.2	1360.5	1329.2	1750.4	3976.2	12133.6	30773.7	35891.2	36027.8	31268.9
55°	1013.3	1098.7	1334.9	1263.7	1554.1	3637.5	12850.8	33230.0	38447.2	38825.7	33955.8
57.5°	987.6	1087.3	1292.2	1172.7	1426.0	3202.0	13109.8	35028.8	40231.8	41182.4	36984.2
60°	964.9	1078.7	1167.0	1118.6	1346.3	2834.9	12608.9	34673.0	40109.4	42158.7	39668.2
62.5°	942.1	1087.3	1064.5	1084.4	1309.3	2598.6	11299.6	31823.9	38080.0	41151.1	41657.7
65°	916.5	1010.4	1004.7	1056.0	1300.7	2504.7	9367.0	27551.7	34157.9	37966.1	42127.4
67.5°	882.3	933.6	962.0	1019.0	1329.2	2422.2	7559.6	22727.3	28707.3	33193.0	39679.6
70°	845.3	888.0	919.3	973.4	1312.1	2385.2	6287.4	17922.8	22778.5	27204.5	34849.5
72.5°	797.0	834.0	862.4	913.6	1295.0	2365.2	5311.1	14433.3	17006.4	20208.4	28334.4
75°	740.0	774.2	794.1	845.3	1241.0	2166.0	4175.5	12213.3	12725.6	14057.6	22567.9
77.5°	674.6	700.2	717.3	774.2	1098.7	1801.7	3019.9	9421.1	9882.2	10206.7	17302.4
80°	597.7	623.3	631.9	685.9	910.8	1408.9	1969.6	6959.1	7391.7	7465.7	11299.6
82.5°	509.5	535.1	535.1	586.3	745.7	1013.3	1292.2	4767.5	4852.9	5103.3	7986.6
85°	409.9	429.8	429.8	455.4	577.8	757.1	888.0	2393.7	2368.1	2703.9	6919.2
87.5°	293.2	307.4	321.6	327.3	412.7	500.9	535.1	728.6	481.0	552.2	4443.0
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°	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1	17493.1
2.5°	20094.5	20256.8	20091.7	19972.1	19457.0	19032.9	18466.5	18176.2
5°	21600.2	22012.9	21873.4	21372.5	20296.6	19087.0	17712.2	17091.7
7.5°	21418.0	22377.2	22400.0	21463.6	19878.2	18096.5	16235.0	15352.7
10°	20000.6	21227.3	21577.4	20669.5	18987.3	16995.0	14860.3	13852.7
12.5°	18418.1	19619.2	19886.8	19573.7	18167.6	16166.7	14000.7	13013.1
15°	17123.0	17661.0	17979.8	18253.0	17464.6	15836.5	13952.3	12867.9
17.5°	16334.6	16274.9	16365.9	16841.3	16975.0	16215.1	14692.3	13496.9
20°	16050.0	15136.4	15113.6	15768.2	16744.5	17117.4	16138.2	14703.7
22.5°	16206.6	14726.5	14538.7	15315.7	16866.9	18418.1	18033.8	16397.3
25°	16747.3	14760.7	14609.8	15361.2	17310.9	19804.2	20080.3	18588.9
27.5°	17598.4	14977.0	14777.7	15549.1	17900.1	20968.3	22095.4	20712.2
30°	18406.7	15352.7	15105.1	15919.1	18438.0	21429.4	23330.7	22368.7
32.5°	19388.7	16055.7	15620.2	16599.3	19104.0	22163.8	24432.2	23740.6
35°	20350.7	17057.6	16516.8	17649.6	19846.9	23077.4	25690.3	25493.9
37.5°	21406.7	18366.9	17920.0	19007.3	20863.0	23939.8	27295.5	27548.9
40°	22533.8	20103.1	19573.7	20988.3	22439.8	25021.4	28972.0	29581.1
42.5°	23669.4	22030.0	21398.1	22832.6	24173.2	26088.7	30406.5	31308.8
45°	24970.2	24122.0	23823.1	25374.3	25838.3	27104.8	31465.3	32586.7
47.5°	26484.4	26495.8	26976.8	27597.3	27517.6	28254.7	32529.8	33728.1
50°	28251.9	29458.7	30520.4	30933.1	29248.1	29490.0	34007.0	35256.5
52.5°	30375.2	33002.3	34317.3	34046.9	31112.4	30998.5	36346.6	37362.7
55°	33030.7	36753.6	38060.1	37866.5	33255.6	33053.5	39261.2	39853.2
57.5°	36104.7	40388.3	41589.4	40718.5	35828.6	35307.7	41672.0	41797.2
60°	38805.8	43268.7	44321.8	43356.9	38424.4	37707.1	43177.6	42571.4
62.5°	40308.6	44245.0	44985.0	43946.1	40203.3	40263.1	43507.8	42153.0
65°	39636.9	41777.3	42016.4	41931.0	39745.1	41746.0	42320.9	40220.4
67.5°	35959.5	35538.3	35939.6	36494.6	35817.2	39793.4	39033.5	36010.8
70°	29481.5	27167.5	27967.3	28340.1	28647.5	34243.2	33878.9	29330.6
72.5°	22217.8	19032.9	19664.7	19587.9	21011.0	27466.3	26347.7	21566.0
75°	15742.6	12904.9	12984.6	12953.3	14661.0	21489.2	19078.4	14755.0
77.5°	11015.0	9349.9	9392.6	9569.1	9856.6	16206.6	13630.7	10778.8
80°	7573.9	7095.7	7331.9	7346.2	6831.0	10886.9	10070.0	8649.8
82.5°	5641.3	4932.6	4875.6	4958.2	5353.8	8820.5	7739.0	5999.9
85°	4619.5	2920.3	2348.2	2943.0	4744.7	8735.1	5140.3	3165.0
87.5°	2601.5	1386.1	626.2	1161.3	1892.8	5783.6	1485.7	404.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)