

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: P193057

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193057
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-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 29800.5 lumens
Efficiency: N/A
Efficacy: 102.8 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): 290
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

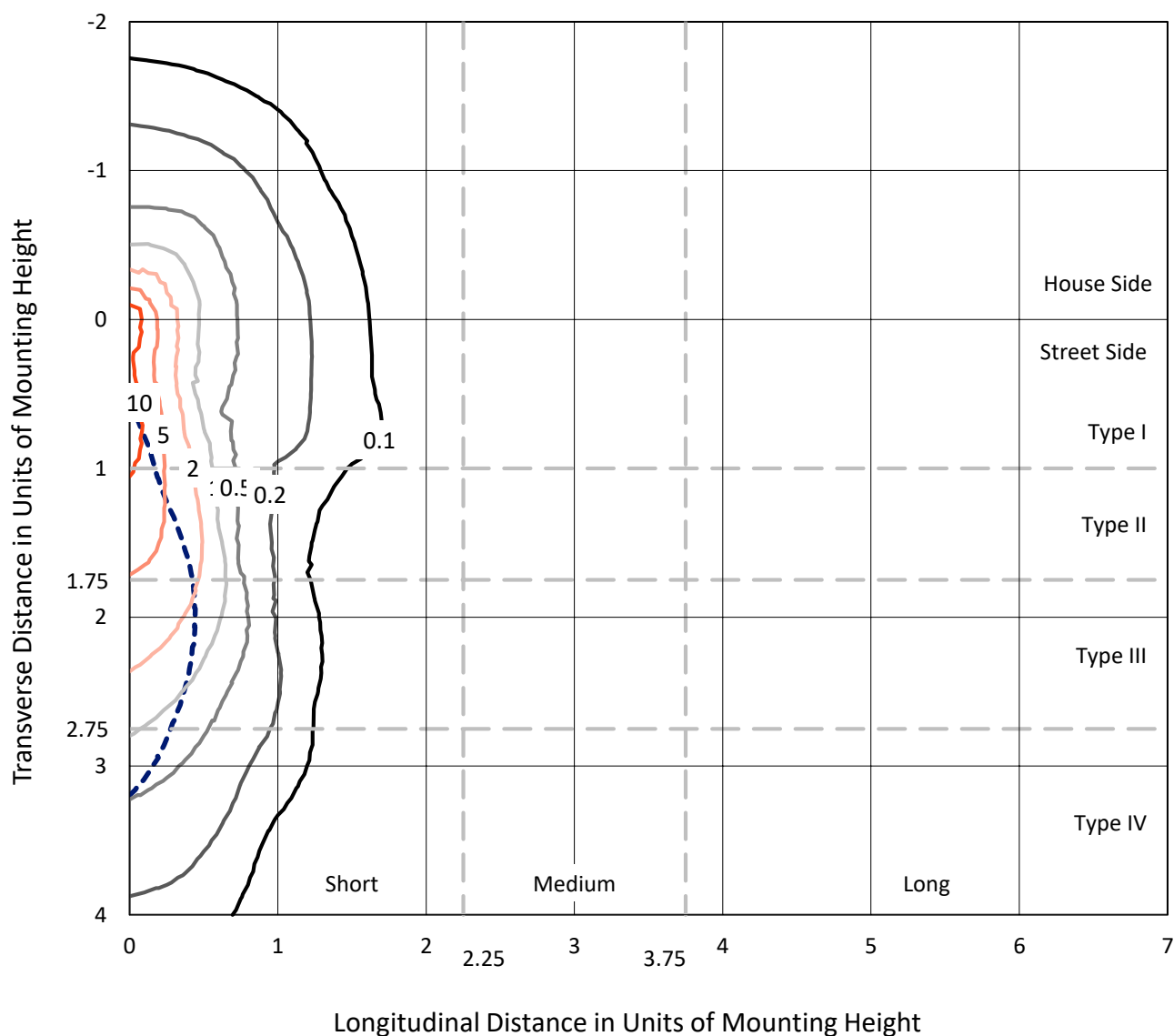


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

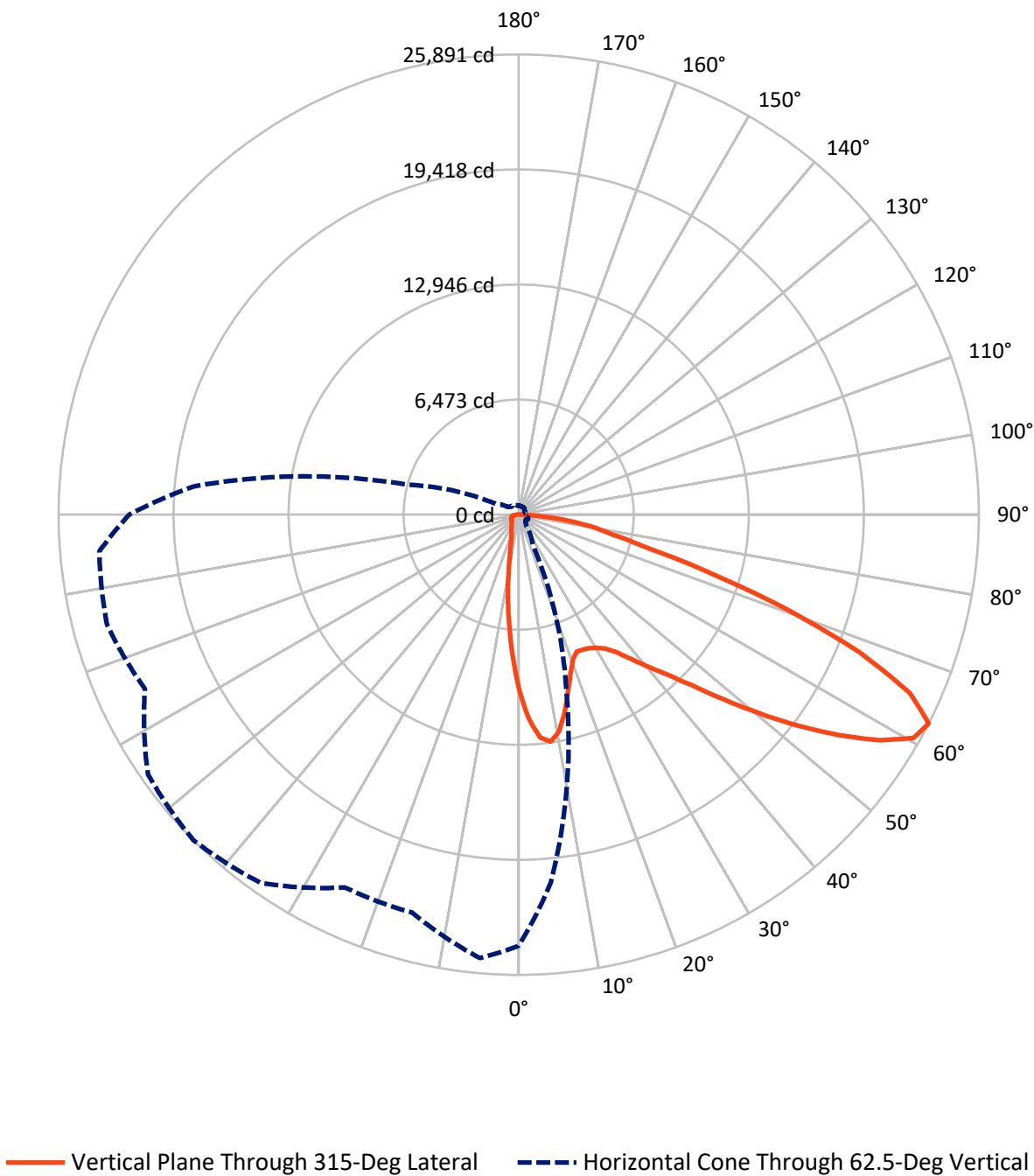


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4931.6	0.0	4931.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24868.9	0.0	24868.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	29800.5	0.0	29800.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.9	2.5
10°-20°	1344.0	4.5
20°-30°	1959.5	6.6
30°-40°	3017.9	10.1
40°-50°	4441.6	14.9
50°-60°	6514.9	21.9
60°-70°	7282.7	24.4
70°-80°	3565.5	12.0
80°-90°	941.4	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°	29800.5	100.0
0°-180°	29800.5	100.0

Coefficient of Utilization



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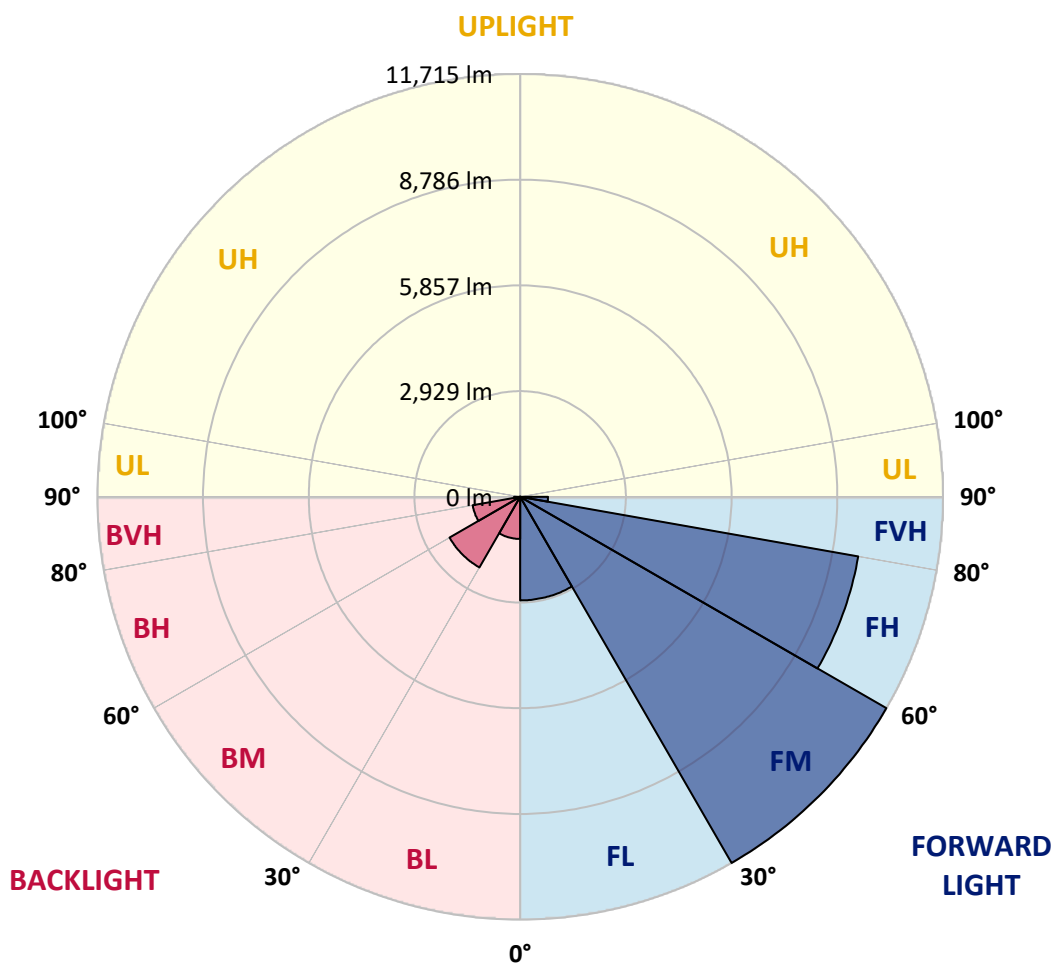
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2869.7	9.6			
FM	(30°-60°)	11714.8	39.3			
FH	(60°-80°)	9511.3	31.9			G4/12000
FVH	(80°-90°)	773.1	2.6			G5
BL	(0°-30°)	1166.7	3.9	B3/2500		
BM	(30°-60°)	2259.6	7.6	B2/2500		
BH	(60°-80°)	1336.9	4.5	B3/2500		G3/2500
BVH	(80°-90°)	168.3	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°	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2
2.5°	10461.3	10248.4	9894.5	9526.0	9301.6	9039.4	8834.7	8654.4	8294.1	8223.6	8287.6
5°	9837.2	9409.6	8742.9	8071.3	7624.0	7144.0	6770.6	6470.8	6013.7	5933.5	6030.1
7.5°	8836.4	8325.2	7443.9	6587.1	5954.7	5355.3	4952.1	4631.1	4274.0	4119.9	4129.8
10°	7972.9	7396.3	6354.5	5422.3	4904.6	4500.1	4160.9	3831.7	3469.6	3232.1	3166.6
12.5°	7489.7	6826.3	5625.4	4793.3	4313.3	3887.3	3522.1	3169.8	2783.3	2540.9	2472.0
15°	7406.1	6685.3	5351.9	4390.2	3789.1	3250.1	2819.3	2426.1	2028.1	1831.5	1790.5
17.5°	7768.3	6937.6	5263.4	4031.5	3296.1	2630.9	2101.8	1662.7	1338.4	1240.1	1231.9
20°	8462.7	7422.5	5252.0	3694.0	2809.5	2029.7	1464.5	1145.0	1002.6	974.7	976.3
22.5°	9437.5	8174.4	5392.8	3440.1	2362.3	1513.7	1100.9	958.3	902.6	876.4	876.4
25°	10698.8	9209.8	5717.2	3255.1	1974.0	1209.0	971.5	886.2	833.8	815.8	819.1
27.5°	11920.9	10217.3	6094.1	3109.3	1720.1	1097.6	920.6	843.7	797.8	779.8	788.0
30°	12874.3	11111.6	6408.5	2911.0	1590.7	1066.5	938.6	860.1	794.6	766.7	768.3
32.5°	13664.0	11894.7	6672.3	2768.5	1476.0	914.1	809.3	774.8	766.7	733.9	717.5
35°	14673.1	12748.3	6849.3	2771.8	1421.9	815.8	720.8	660.2	616.0	578.3	578.3
37.5°	15855.8	13727.9	7037.6	2809.5	1402.3	758.5	689.7	629.0	588.2	552.1	545.5
40°	17025.6	14687.8	7209.6	2845.5	1390.8	724.1	665.1	609.4	571.8	535.7	525.9
42.5°	18019.9	15477.4	7363.5	2863.5	1351.5	720.8	647.1	596.3	560.3	520.9	511.2
45°	18755.5	16139.2	7529.0	2891.3	1312.2	733.9	647.1	594.7	550.4	512.8	502.9
47.5°	19412.3	16915.7	7805.9	2891.3	1264.6	709.3	668.3	596.3	548.8	509.4	501.3
50°	20292.0	17980.6	8330.2	2824.3	1197.5	683.1	704.4	589.8	534.1	502.9	493.1
52.5°	21504.3	19345.1	9162.3	2707.9	1094.3	632.3	699.5	586.5	519.3	486.5	475.1
55°	22937.7	20806.5	10069.9	2572.0	940.2	596.3	674.9	578.3	502.9	466.9	455.4
57.5°	24056.6	21812.3	10708.7	2362.3	806.0	576.7	597.9	570.2	483.3	445.6	435.7
60°	24502.2	21772.9	10884.0	2082.2	740.4	560.3	522.6	638.8	466.9	429.2	417.7
62.5°	24261.3	20767.1	10392.5	1885.5	725.7	538.9	489.8	591.4	453.8	417.7	401.3
65°	23149.0	18984.8	9090.3	1833.2	768.3	517.7	468.5	463.6	435.7	401.3	384.9
67.5°	20726.2	16321.1	7278.5	1838.1	822.4	496.4	447.2	424.3	411.2	383.3	368.6
70°	16881.3	12903.8	5425.6	1851.2	850.2	471.8	424.3	399.7	384.9	357.2	347.3
72.5°	12412.4	9945.4	3941.4	1765.9	855.2	443.9	393.2	371.9	357.2	327.7	319.5
75°	8492.2	7607.7	2734.1	1462.9	745.3	404.6	358.8	339.1	329.3	293.3	288.3
77.5°	6203.7	5710.7	1749.6	1086.1	575.0	355.5	316.2	301.4	294.9	255.5	249.0
80°	4978.4	4518.1	1094.3	743.7	420.9	298.2	265.4	257.2	250.6	211.3	206.4
82.5°	3453.2	3025.7	702.7	483.3	316.2	231.0	209.7	206.4	196.5	160.5	155.5
85°	1821.7	1643.0	445.6	329.3	229.3	158.9	145.8	145.8	140.8	106.5	103.2
87.5°	232.6	378.4	226.0	172.0	126.0	70.5	70.5	68.9	73.8	60.6	52.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2
2.5°	8136.7	8215.4	8140.1	8144.9	8228.6	8477.5	8590.6	8683.9	8783.9	8849.5	8878.9
5°	5897.4	6081.0	6143.1	6274.2	6467.5	6785.3	6911.4	7003.2	7063.8	7099.8	7114.5
7.5°	4033.2	4144.5	4269.1	4480.4	4901.4	5088.2	5171.7	5150.4	5081.6	5057.1	5032.5
10°	3040.4	2996.2	2973.3	3089.7	3430.3	3618.6	3677.6	3620.3	3582.7	3591.0	3631.8
12.5°	2355.7	2278.7	2185.3	2172.2	2396.6	2565.4	2603.1	2606.4	2675.1	2735.8	2825.9
15°	1716.8	1708.6	1662.7	1634.8	1762.7	1900.2	1916.6	1946.1	2008.4	2052.7	2131.2
17.5°	1210.6	1254.9	1290.9	1308.9	1405.5	1503.9	1485.8	1471.0	1459.6	1459.6	1497.3
20°	976.3	1005.8	1051.7	1104.2	1202.4	1271.2	1227.0	1168.0	1125.4	1112.4	1117.2
22.5°	879.6	902.6	928.8	974.7	1063.2	1110.7	1063.2	1020.6	978.0	963.2	958.3
25°	830.6	860.1	884.6	919.0	984.5	1017.3	971.5	940.2	914.1	896.0	883.0
27.5°	802.7	829.0	835.5	851.9	907.5	937.0	914.1	901.0	884.6	868.3	851.9
30°	773.2	768.3	756.8	758.5	802.7	832.2	830.6	833.8	832.2	827.3	824.1
32.5°	706.1	696.2	686.3	696.2	737.2	763.4	765.1	771.6	771.6	769.9	783.1
35°	588.2	606.2	617.7	647.1	696.2	719.2	709.3	692.9	663.4	645.4	643.7
37.5°	543.9	547.2	566.8	607.8	661.8	683.1	668.3	630.7	611.1	607.8	612.7
40°	522.6	525.9	537.3	575.0	629.0	650.3	637.2	609.4	591.4	589.8	597.9
42.5°	507.8	511.2	517.7	543.9	588.2	614.4	616.0	596.3	575.0	576.7	584.9
45°	499.7	501.3	499.7	512.8	553.7	584.9	597.9	584.9	566.8	570.2	579.9
47.5°	498.0	493.1	486.5	489.8	532.4	563.6	579.9	575.0	566.8	570.2	578.3
50°	491.4	479.9	471.8	470.2	512.8	545.5	560.3	560.3	563.6	570.2	578.3
52.5°	471.8	458.7	458.7	453.8	499.7	530.8	540.7	542.3	547.2	558.7	570.2
55°	447.2	442.3	447.2	439.0	489.8	519.3	524.2	527.5	530.8	540.7	557.0
57.5°	425.9	419.3	430.8	427.5	481.7	507.8	507.8	514.4	514.4	527.5	540.7
60°	414.4	401.3	406.2	409.5	470.2	498.0	494.7	501.3	504.6	516.0	525.9
62.5°	399.7	388.2	388.2	396.4	457.0	483.3	481.7	486.5	499.7	502.9	512.8
65°	381.7	376.7	371.9	381.7	443.9	466.9	468.5	475.1	486.5	489.8	498.0
67.5°	363.8	365.4	355.5	365.4	432.4	450.4	450.4	463.6	468.5	475.1	483.3
70°	344.0	345.7	337.5	349.0	424.3	432.4	430.8	448.8	452.2	457.0	465.2
72.5°	319.5	319.5	316.2	332.5	411.2	414.4	411.2	425.9	427.5	432.4	435.7
75°	293.3	293.3	290.0	312.9	402.9	394.8	384.9	396.4	399.7	402.9	402.9
77.5°	258.8	262.1	262.1	290.0	375.1	386.6	353.9	360.4	365.4	367.0	362.0
80°	216.3	224.4	227.7	263.8	314.5	357.2	316.2	321.1	322.8	322.8	316.2
82.5°	165.4	180.2	188.4	227.7	240.8	299.8	275.3	280.1	275.3	265.4	262.1
85°	114.7	134.3	144.1	173.6	181.8	231.0	229.3	229.3	219.5	206.4	204.8
87.5°	62.3	73.8	80.3	103.2	124.5	155.5	168.7	163.8	155.5	147.4	149.0
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°	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2
2.5°	9032.9	9255.7	9611.1	9883.0	10156.6	10420.4	10705.4	10923.3	11108.4	11180.5	11400.0
5°	7263.7	7542.1	7877.9	8484.1	8913.3	9386.7	9933.9	10657.9	10936.5	11321.5	11952.1
7.5°	5135.6	5387.9	5928.5	6418.3	7026.1	7696.1	8435.0	9434.2	9799.6	10417.1	11444.3
10°	3835.0	4128.2	4562.3	4975.1	5510.8	6195.5	7044.2	8161.3	8605.4	9275.3	10458.1
12.5°	3089.7	3435.2	3895.5	4283.8	4698.2	5181.5	6005.6	7230.9	7825.5	8412.0	9607.8
15°	2373.6	2735.8	3163.3	3656.4	4113.5	4634.3	5497.7	6837.8	7522.5	8133.5	9154.1
17.5°	1643.0	1952.7	2491.6	3006.0	3591.0	4257.7	5356.9	6921.2	7738.8	8443.1	9232.7
20°	1164.7	1341.7	1783.9	2380.2	3109.3	3946.3	5330.6	7360.2	8423.5	9227.8	9737.3
22.5°	979.6	1045.2	1302.4	1849.5	2691.5	3713.7	5422.3	7976.3	9347.4	10374.5	10541.7
25°	892.7	932.1	1066.5	1451.4	2319.7	3545.0	5732.0	8893.6	10490.8	11521.3	11491.8
27.5°	845.3	886.2	974.7	1225.4	2039.6	3440.1	6041.6	9981.4	11798.2	12766.3	12399.3
30°	830.6	886.2	979.6	1154.9	1839.7	3274.7	6295.5	10936.5	12804.0	13606.6	12812.2
32.5°	819.1	827.3	869.9	996.0	1649.6	3081.4	6467.5	11793.2	13788.5	14406.1	13406.7
35°	661.8	702.7	771.6	892.7	1538.3	2965.1	6467.5	12532.0	14758.3	15213.7	13973.6
37.5°	637.2	673.2	733.9	837.2	1476.0	2907.7	6338.1	13244.6	15749.4	16129.4	14440.5
40°	624.1	653.6	710.9	794.6	1449.8	2842.3	6149.6	13873.6	16717.5	17046.8	14876.2
42.5°	614.4	640.5	694.6	768.3	1415.4	2770.2	5997.3	14378.2	17558.0	17829.9	15292.4
45°	609.4	637.2	696.2	781.4	1346.6	2675.1	5946.6	14923.7	18249.2	18483.5	15742.8
47.5°	609.4	642.1	704.4	809.3	1264.6	2576.9	6105.5	15642.8	18902.8	19017.5	16273.6
50°	604.5	640.5	727.3	781.4	1145.0	2452.4	6479.0	16548.9	19610.5	19623.6	16945.2
52.5°	594.7	637.2	783.1	765.1	1007.5	2288.6	6983.6	17711.9	20657.3	20736.0	17996.9
55°	583.2	632.3	768.3	727.3	894.4	2093.6	7396.3	19125.7	22128.4	22346.2	19543.4
57.5°	568.4	625.7	743.7	674.9	820.7	1842.9	7545.5	20160.9	23155.6	23702.7	21286.4
60°	555.4	620.9	671.6	643.7	774.8	1631.6	7257.1	19956.2	23085.1	24264.7	22831.2
62.5°	542.3	625.7	612.7	624.1	753.6	1495.6	6503.5	18316.4	21917.1	23684.6	23976.3
65°	527.5	581.6	578.3	607.8	748.7	1441.5	5391.2	15857.5	19659.7	21851.6	24246.6
67.5°	507.8	537.3	553.7	586.5	765.1	1394.0	4351.0	13080.8	16522.6	19104.3	22837.7
70°	486.5	511.2	529.2	560.3	755.2	1372.8	3618.6	10315.6	13110.2	15657.6	20057.9
72.5°	458.7	479.9	496.4	525.9	745.3	1361.4	3056.8	8307.2	9788.1	11630.9	16308.0
75°	425.9	445.6	457.0	486.5	714.2	1246.6	2403.1	7029.4	7324.3	8090.9	12989.1
77.5°	388.2	402.9	412.8	445.6	632.3	1037.0	1738.1	5422.3	5687.7	5874.5	9958.4
80°	344.0	358.8	363.8	394.8	524.2	810.9	1133.6	4005.3	4254.3	4296.9	6503.5
82.5°	293.3	308.0	308.0	337.5	429.2	583.2	743.7	2743.9	2793.1	2937.2	4596.7
85°	235.9	247.4	247.4	262.1	332.5	435.7	511.2	1377.6	1363.0	1556.3	3982.4
87.5°	168.7	176.9	185.0	188.4	237.5	288.3	308.0	419.3	276.9	317.8	2557.2
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°	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2
2.5°	11565.5	11658.8	11563.9	11495.0	11198.5	10954.5	10628.4	10461.3
5°	12432.1	12669.6	12589.4	12301.1	11681.8	10985.6	10194.3	9837.2
7.5°	12327.2	12879.3	12892.4	12353.4	11441.0	10415.4	9344.2	8836.4
10°	11511.4	12217.5	12419.0	11896.3	10928.2	9781.6	8553.0	7972.9
12.5°	10600.7	11292.0	11445.9	11265.7	10456.4	9304.8	8058.2	7489.7
15°	9855.1	10164.8	10348.4	10505.6	10051.9	9114.7	8030.3	7406.1
17.5°	9401.4	9367.1	9419.5	9693.1	9770.1	9332.7	8456.2	7768.3
20°	9237.7	8711.8	8698.6	9075.5	9637.3	9852.0	9288.4	8462.7
22.5°	9327.8	8475.9	8367.7	8815.0	9707.8	10600.7	10379.4	9437.5
25°	9639.0	8495.6	8408.7	8841.3	9963.4	11398.4	11557.3	10698.8
27.5°	10128.8	8620.0	8505.4	8949.3	10302.5	12068.4	12717.1	11920.9
30°	10594.1	8836.4	8693.8	9162.3	10612.1	12333.8	13428.1	12874.3
32.5°	11159.2	9240.9	8990.3	9553.8	10995.5	12756.4	14062.1	13664.0
35°	11712.9	9817.6	9506.3	10158.3	11422.9	13282.3	14786.2	14673.1
37.5°	12320.7	10571.2	10314.0	10939.7	12007.8	13778.6	15710.1	15855.8
40°	12969.4	11570.4	11265.7	12079.9	12915.3	14401.1	16674.9	17025.6
42.5°	13623.0	12679.4	12315.8	13141.3	13913.0	15015.5	17500.6	18019.9
45°	14371.6	13883.5	13711.5	14604.2	14871.3	15600.2	18109.9	18755.5
47.5°	15243.2	15249.8	15526.7	15883.7	15837.9	16262.1	18722.6	19412.3
50°	16260.5	16955.1	17566.1	17803.7	16833.9	16973.1	19572.9	20292.0
52.5°	17482.6	18994.6	19751.5	19595.7	17906.8	17841.3	20919.5	21504.3
55°	19011.0	21153.6	21905.6	21794.3	19140.4	19024.1	22596.9	22937.7
57.5°	20780.2	23245.7	23936.9	23435.7	20621.3	20321.5	23984.5	24056.6
60°	22334.8	24903.5	25509.7	24954.3	22115.2	21702.5	24851.0	24502.2
62.5°	23199.8	25465.4	25891.2	25293.4	23139.2	23173.6	25041.1	24261.3
65°	22813.3	24045.1	24182.7	24133.5	22875.4	24027.1	24357.9	23149.0
67.5°	20696.7	20454.2	20685.2	21004.6	20614.7	22903.3	22465.9	20726.2
70°	16968.2	15636.3	16096.6	16311.4	16488.2	19708.8	19499.2	16881.3
72.5°	12787.6	10954.5	11318.1	11273.9	12093.1	15808.4	15164.5	12412.4
75°	9060.8	7427.5	7473.4	7455.3	8438.2	12368.1	10980.7	8492.2
77.5°	6339.8	5381.3	5405.9	5507.5	5673.0	9327.8	7845.3	6203.7
80°	4359.2	4084.0	4219.9	4228.2	3931.5	6266.0	5795.8	4978.4
82.5°	3246.8	2839.0	2806.3	2853.8	3081.4	5076.7	4454.2	3453.2
85°	2658.8	1680.7	1351.5	1693.8	2730.8	5027.6	2958.5	1821.7
87.5°	1497.3	797.8	360.4	668.3	1089.5	3328.8	855.2	232.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)