

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: P193017

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193017
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-SLL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT 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



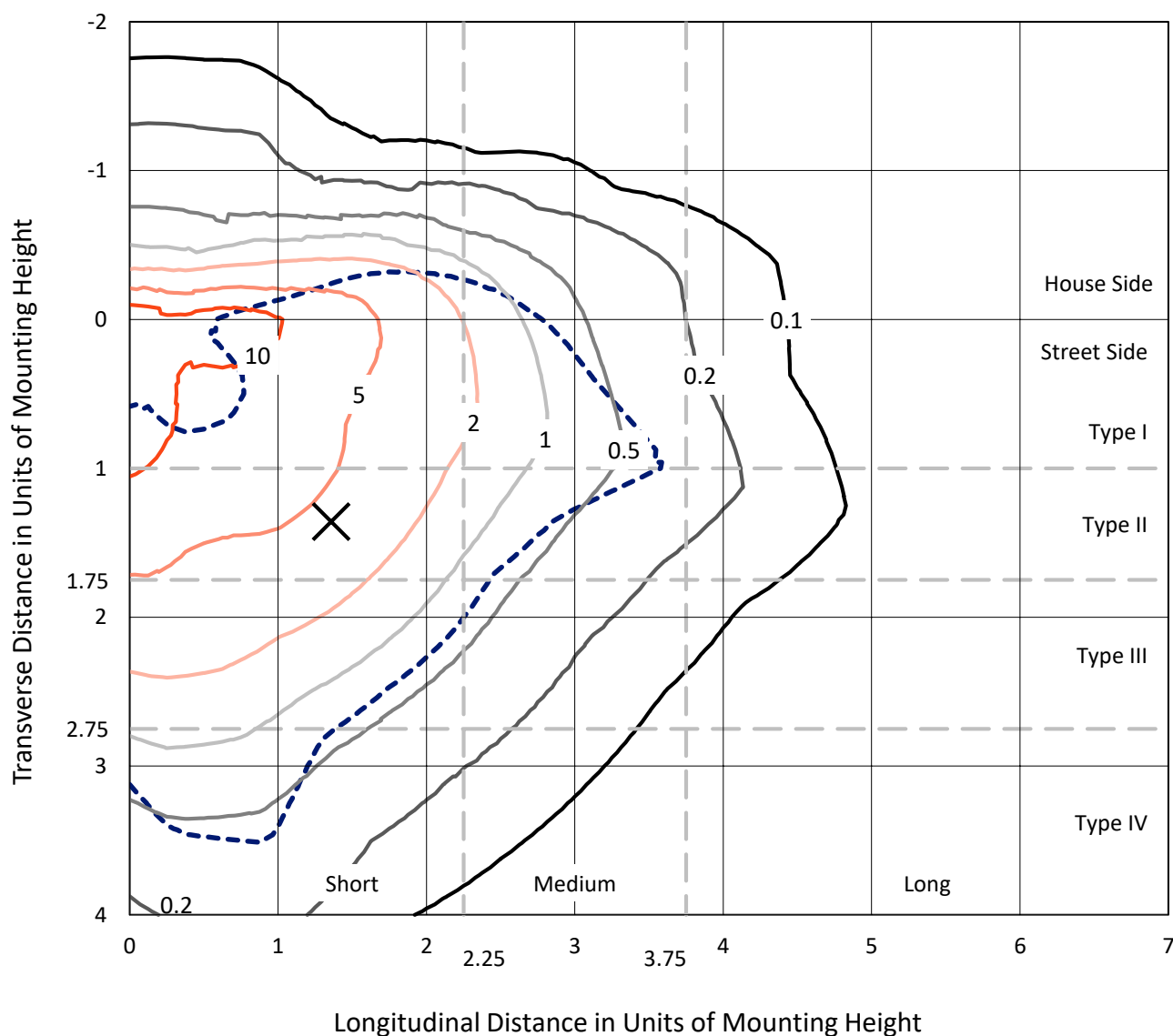
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

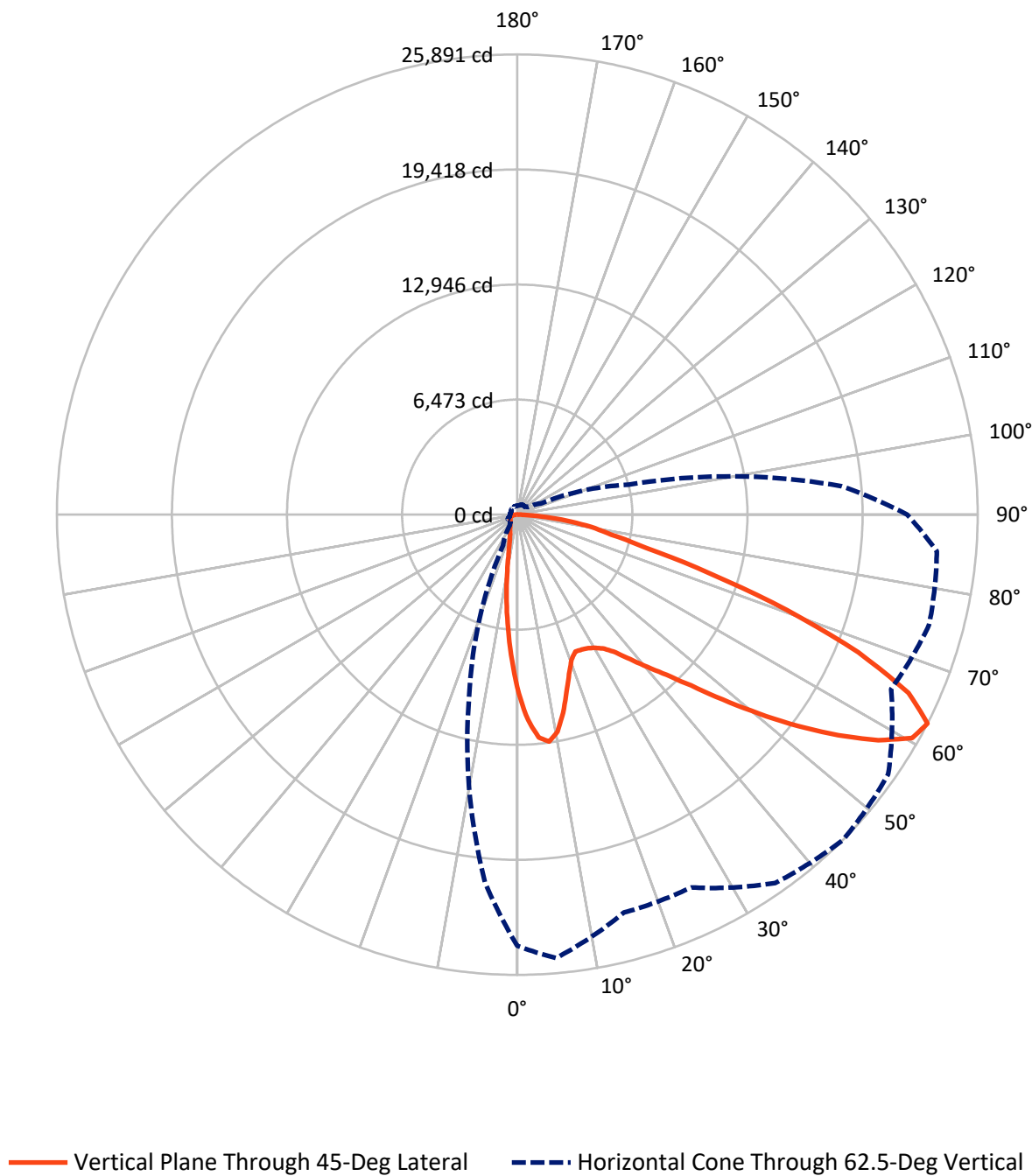


Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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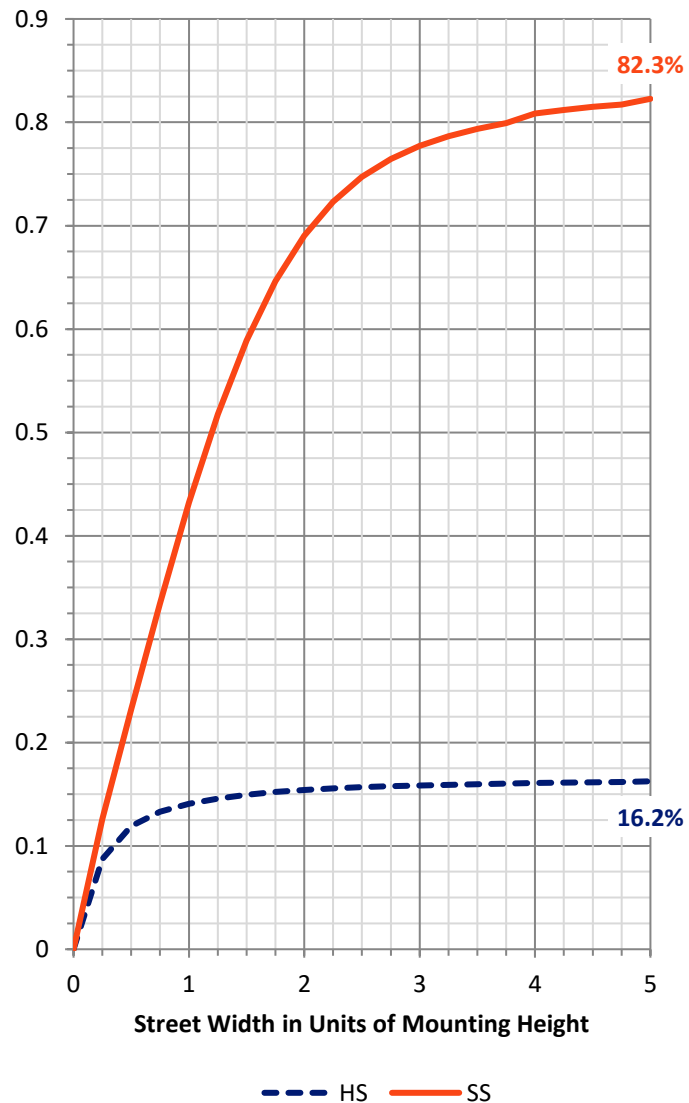
FLUX DISTRIBUTION:

		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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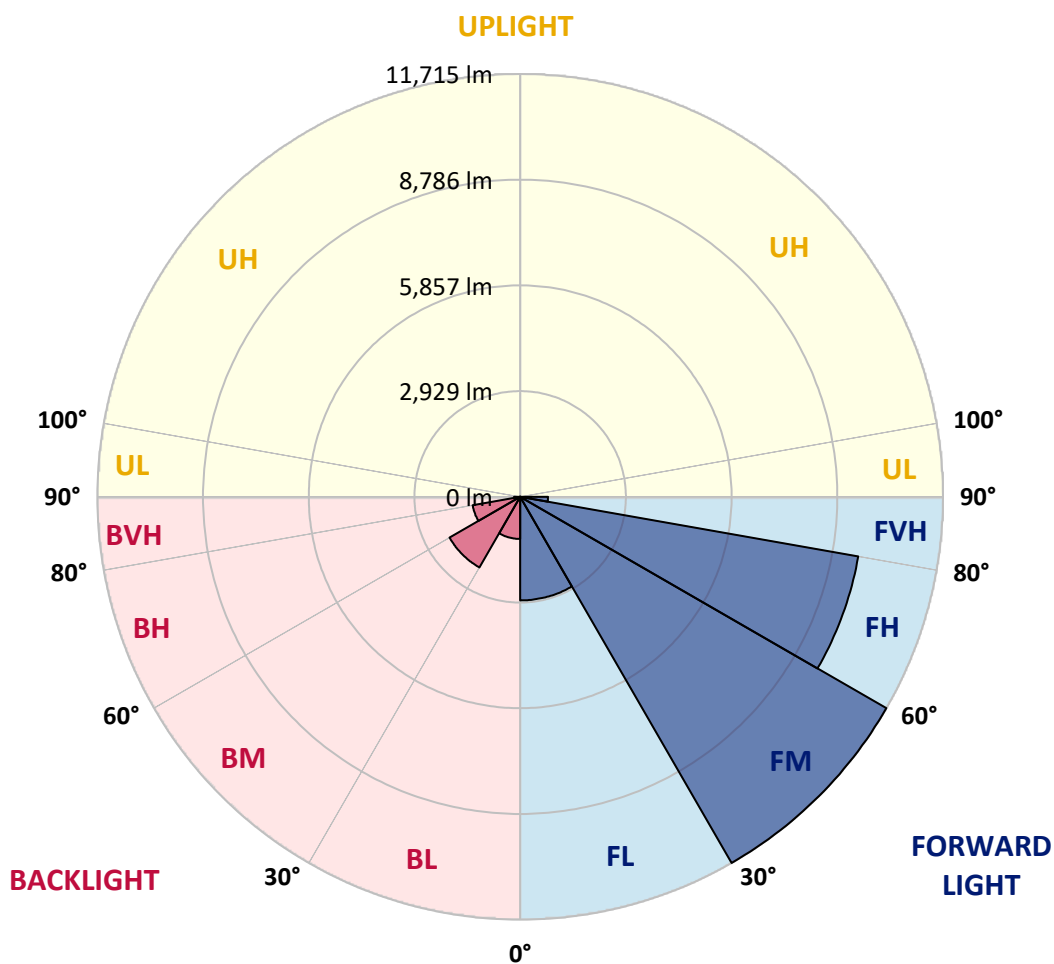
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

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	10628.4	10954.5	11198.5	11495.0	11563.9	11658.8	11565.5	11400.0	11180.5	11108.4
5°	9837.2	10194.3	10985.6	11681.8	12301.1	12589.4	12669.6	12432.1	11952.1	11321.5	10936.5
7.5°	8836.4	9344.2	10415.4	11441.0	12353.4	12892.4	12879.3	12327.2	11444.3	10417.1	9799.6
10°	7972.9	8553.0	9781.6	10928.2	11896.3	12419.0	12217.5	11511.4	10458.1	9275.3	8605.4
12.5°	7489.7	8058.2	9304.8	10456.4	11265.7	11445.9	11292.0	10600.7	9607.8	8412.0	7825.5
15°	7406.1	8030.3	9114.7	10051.9	10505.6	10348.4	10164.8	9855.1	9154.1	8133.5	7522.5
17.5°	7768.3	8456.2	9332.7	9770.1	9693.1	9419.5	9367.1	9401.4	9232.7	8443.1	7738.8
20°	8462.7	9288.4	9852.0	9637.3	9075.5	8698.6	8711.8	9237.7	9737.3	9227.8	8423.5
22.5°	9437.5	10379.4	10600.7	9707.8	8815.0	8367.7	8475.9	9327.8	10541.7	10374.5	9347.4
25°	10698.8	11557.3	11398.4	9963.4	8841.3	8408.7	8495.6	9639.0	11491.8	11521.3	10490.8
27.5°	11920.9	12717.1	12068.4	10302.5	8949.3	8505.4	8620.0	10128.8	12399.3	12766.3	11798.2
30°	12874.3	13428.1	12333.8	10612.1	9162.3	8693.8	8836.4	10594.1	12812.2	13606.6	12804.0
32.5°	13664.0	14062.1	12756.4	10995.5	9553.8	8990.3	9240.9	11159.2	13406.7	14406.1	13788.5
35°	14673.1	14786.2	13282.3	11422.9	10158.3	9506.3	9817.6	11712.9	13973.6	15213.7	14758.3
37.5°	15855.8	15710.1	13778.6	12007.8	10939.7	10314.0	10571.2	12320.7	14440.5	16129.4	15749.4
40°	17025.6	16674.9	14401.1	12915.3	12079.9	11265.7	11570.4	12969.4	14876.2	17046.8	16717.5
42.5°	18019.9	17500.6	15015.5	13913.0	13141.3	12315.8	12679.4	13623.0	15292.4	17829.9	17558.0
45°	18755.5	18109.9	15600.2	14871.3	14604.2	13711.5	13883.5	14371.6	15742.8	18483.5	18249.2
47.5°	19412.3	18722.6	16262.1	15837.9	15883.7	15526.7	15249.8	15243.2	16273.6	19017.5	18902.8
50°	20292.0	19572.9	16973.1	16833.9	17803.7	17566.1	16955.1	16260.5	16945.2	19623.6	19610.5
52.5°	21504.3	20919.5	17841.3	17906.8	19595.7	19751.5	18994.6	17482.6	17996.9	20736.0	20657.3
55°	22937.7	22596.9	19024.1	19140.4	21794.3	21905.6	21153.6	19011.0	19543.4	22346.2	22128.4
57.5°	24056.6	23984.5	20321.5	20621.3	23435.7	23936.9	23245.7	20780.2	21286.4	23702.7	23155.6
60°	24502.2	24851.0	21702.5	22115.2	24954.3	25509.7	24903.5	22334.8	22831.2	24264.7	23085.1
62.5°	24261.3	25041.1	23173.6	23139.2	25293.4	25891.2	25465.4	23199.8	23976.3	23684.6	21917.1
65°	23149.0	24357.9	24027.1	22875.4	24133.5	24182.7	24045.1	22813.3	24246.6	21851.6	19659.7
67.5°	20726.2	22465.9	22903.3	20614.7	21004.6	20685.2	20454.2	20696.7	22837.7	19104.3	16522.6
70°	16881.3	19499.2	19708.8	16488.2	16311.4	16096.6	15636.3	16968.2	20057.9	15657.6	13110.2
72.5°	12412.4	15164.5	15808.4	12093.1	11273.9	11318.1	10954.5	12787.6	16308.0	11630.9	9788.1
75°	8492.2	10980.7	12368.1	8438.2	7455.3	7473.4	7427.5	9060.8	12989.1	8090.9	7324.3
77.5°	6203.7	7845.3	9327.8	5673.0	5507.5	5405.9	5381.3	6339.8	9958.4	5874.5	5687.7
80°	4978.4	5795.8	6266.0	3931.5	4228.2	4219.9	4084.0	4359.2	6503.5	4296.9	4254.3
82.5°	3453.2	4454.2	5076.7	3081.4	2853.8	2806.3	2839.0	3246.8	4596.7	2937.2	2793.1
85°	1821.7	2958.5	5027.6	2730.8	1693.8	1351.5	1680.7	2658.8	3982.4	1556.3	1363.0
87.5°	232.6	855.2	3328.8	1089.5	668.3	360.4	797.8	1497.3	2557.2	317.8	276.9
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°	10923.3	10705.4	10420.4	10156.6	9883.0	9611.1	9255.7	9032.9	8878.9	8849.5	8783.9
5°	10657.9	9933.9	9386.7	8913.3	8484.1	7877.9	7542.1	7263.7	7114.5	7099.8	7063.8
7.5°	9434.2	8435.0	7696.1	7026.1	6418.3	5928.5	5387.9	5135.6	5032.5	5057.1	5081.6
10°	8161.3	7044.2	6195.5	5510.8	4975.1	4562.3	4128.2	3835.0	3631.8	3591.0	3582.7
12.5°	7230.9	6005.6	5181.5	4698.2	4283.8	3895.5	3435.2	3089.7	2825.9	2735.8	2675.1
15°	6837.8	5497.7	4634.3	4113.5	3656.4	3163.3	2735.8	2373.6	2131.2	2052.7	2008.4
17.5°	6921.2	5356.9	4257.7	3591.0	3006.0	2491.6	1952.7	1643.0	1497.3	1459.6	1459.6
20°	7360.2	5330.6	3946.3	3109.3	2380.2	1783.9	1341.7	1164.7	1117.2	1112.4	1125.4
22.5°	7976.3	5422.3	3713.7	2691.5	1849.5	1302.4	1045.2	979.6	958.3	963.2	978.0
25°	8893.6	5732.0	3545.0	2319.7	1451.4	1066.5	932.1	892.7	883.0	896.0	914.1
27.5°	9981.4	6041.6	3440.1	2039.6	1225.4	974.7	886.2	845.3	851.9	868.3	884.6
30°	10936.5	6295.5	3274.7	1839.7	1154.9	979.6	886.2	830.6	824.1	827.3	832.2
32.5°	11793.2	6467.5	3081.4	1649.6	996.0	869.9	827.3	819.1	783.1	769.9	771.6
35°	12532.0	6467.5	2965.1	1538.3	892.7	771.6	702.7	661.8	643.7	645.4	663.4
37.5°	13244.6	6338.1	2907.7	1476.0	837.2	733.9	673.2	637.2	612.7	607.8	611.1
40°	13873.6	6149.6	2842.3	1449.8	794.6	710.9	653.6	624.1	597.9	589.8	591.4
42.5°	14378.2	5997.3	2770.2	1415.4	768.3	694.6	640.5	614.4	584.9	576.7	575.0
45°	14923.7	5946.6	2675.1	1346.6	781.4	696.2	637.2	609.4	579.9	570.2	566.8
47.5°	15642.8	6105.5	2576.9	1264.6	809.3	704.4	642.1	609.4	578.3	570.2	566.8
50°	16548.9	6479.0	2452.4	1145.0	781.4	727.3	640.5	604.5	578.3	570.2	563.6
52.5°	17711.9	6983.6	2288.6	1007.5	765.1	783.1	637.2	594.7	570.2	558.7	547.2
55°	19125.7	7396.3	2093.6	894.4	727.3	768.3	632.3	583.2	557.0	540.7	530.8
57.5°	20160.9	7545.5	1842.9	820.7	674.9	743.7	625.7	568.4	540.7	527.5	514.4
60°	19956.2	7257.1	1631.6	774.8	643.7	671.6	620.9	555.4	525.9	516.0	504.6
62.5°	18316.4	6503.5	1495.6	753.6	624.1	612.7	625.7	542.3	512.8	502.9	499.7
65°	15857.5	5391.2	1441.5	748.7	607.8	578.3	581.6	527.5	498.0	489.8	486.5
67.5°	13080.8	4351.0	1394.0	765.1	586.5	553.7	537.3	507.8	483.3	475.1	468.5
70°	10315.6	3618.6	1372.8	755.2	560.3	529.2	511.2	486.5	465.2	457.0	452.2
72.5°	8307.2	3056.8	1361.4	745.3	525.9	496.4	479.9	458.7	435.7	432.4	427.5
75°	7029.4	2403.1	1246.6	714.2	486.5	457.0	445.6	425.9	402.9	402.9	399.7
77.5°	5422.3	1738.1	1037.0	632.3	445.6	412.8	402.9	388.2	362.0	367.0	365.4
80°	4005.3	1133.6	810.9	524.2	394.8	363.8	358.8	344.0	316.2	322.8	322.8
82.5°	2743.9	743.7	583.2	429.2	337.5	308.0	308.0	293.3	262.1	265.4	275.3
85°	1377.6	511.2	435.7	332.5	262.1	247.4	247.4	235.9	204.8	206.4	219.5
87.5°	419.3	308.0	288.3	237.5	188.4	185.0	176.9	168.7	149.0	147.4	155.5
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°	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2	10068.2
2.5°	8683.9	8590.6	8477.5	8228.6	8144.9	8140.1	8215.4	8136.7	8287.6	8223.6	8294.1
5°	7003.2	6911.4	6785.3	6467.5	6274.2	6143.1	6081.0	5897.4	6030.1	5933.5	6013.7
7.5°	5150.4	5171.7	5088.2	4901.4	4480.4	4269.1	4144.5	4033.2	4129.8	4119.9	4274.0
10°	3620.3	3677.6	3618.6	3430.3	3089.7	2973.3	2996.2	3040.4	3166.6	3232.1	3469.6
12.5°	2606.4	2603.1	2565.4	2396.6	2172.2	2185.3	2278.7	2355.7	2472.0	2540.9	2783.3
15°	1946.1	1916.6	1900.2	1762.7	1634.8	1662.7	1708.6	1716.8	1790.5	1831.5	2028.1
17.5°	1471.0	1485.8	1503.9	1405.5	1308.9	1290.9	1254.9	1210.6	1231.9	1240.1	1338.4
20°	1168.0	1227.0	1271.2	1202.4	1104.2	1051.7	1005.8	976.3	976.3	974.7	1002.6
22.5°	1020.6	1063.2	1110.7	1063.2	974.7	928.8	902.6	879.6	876.4	876.4	902.6
25°	940.2	971.5	1017.3	984.5	919.0	884.6	860.1	830.6	819.1	815.8	833.8
27.5°	901.0	914.1	937.0	907.5	851.9	835.5	829.0	802.7	788.0	779.8	797.8
30°	833.8	830.6	832.2	802.7	758.5	756.8	768.3	773.2	768.3	766.7	794.6
32.5°	771.6	765.1	763.4	737.2	696.2	686.3	696.2	706.1	717.5	733.9	766.7
35°	692.9	709.3	719.2	696.2	647.1	617.7	606.2	588.2	578.3	578.3	616.0
37.5°	630.7	668.3	683.1	661.8	607.8	566.8	547.2	543.9	545.5	552.1	588.2
40°	609.4	637.2	650.3	629.0	575.0	537.3	525.9	522.6	525.9	535.7	571.8
42.5°	596.3	616.0	614.4	588.2	543.9	517.7	511.2	507.8	511.2	520.9	560.3
45°	584.9	597.9	584.9	553.7	512.8	499.7	501.3	499.7	502.9	512.8	550.4
47.5°	575.0	579.9	563.6	532.4	489.8	486.5	493.1	498.0	501.3	509.4	548.8
50°	560.3	560.3	545.5	512.8	470.2	471.8	479.9	491.4	493.1	502.9	534.1
52.5°	542.3	540.7	530.8	499.7	453.8	458.7	458.7	471.8	475.1	486.5	519.3
55°	527.5	524.2	519.3	489.8	439.0	447.2	442.3	447.2	455.4	466.9	502.9
57.5°	514.4	507.8	507.8	481.7	427.5	430.8	419.3	425.9	435.7	445.6	483.3
60°	501.3	494.7	498.0	470.2	409.5	406.2	401.3	414.4	417.7	429.2	466.9
62.5°	486.5	481.7	483.3	457.0	396.4	388.2	388.2	399.7	401.3	417.7	453.8
65°	475.1	468.5	466.9	443.9	381.7	371.9	376.7	381.7	384.9	401.3	435.7
67.5°	463.6	450.4	450.4	432.4	365.4	355.5	365.4	363.8	368.6	383.3	411.2
70°	448.8	430.8	432.4	424.3	349.0	337.5	345.7	344.0	347.3	357.2	384.9
72.5°	425.9	411.2	414.4	411.2	332.5	316.2	319.5	319.5	319.5	327.7	357.2
75°	396.4	384.9	394.8	402.9	312.9	290.0	293.3	293.3	288.3	293.3	329.3
77.5°	360.4	353.9	386.6	375.1	290.0	262.1	262.1	258.8	249.0	255.5	294.9
80°	321.1	316.2	357.2	314.5	263.8	227.7	224.4	216.3	206.4	211.3	250.6
82.5°	280.1	275.3	299.8	240.8	227.7	188.4	180.2	165.4	155.5	160.5	196.5
85°	229.3	229.3	231.0	181.8	173.6	144.1	134.3	114.7	103.2	106.5	140.8
87.5°	163.8	168.7	155.5	124.5	103.2	80.3	73.8	62.3	52.5	60.6	73.8
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):

	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°	8654.4	8834.7	9039.4	9301.6	9526.0	9894.5	10248.4	10461.3
5°	6470.8	6770.6	7144.0	7624.0	8071.3	8742.9	9409.6	9837.2
7.5°	4631.1	4952.1	5355.3	5954.7	6587.1	7443.9	8325.2	8836.4
10°	3831.7	4160.9	4500.1	4904.6	5422.3	6354.5	7396.3	7972.9
12.5°	3169.8	3522.1	3887.3	4313.3	4793.3	5625.4	6826.3	7489.7
15°	2426.1	2819.3	3250.1	3789.1	4390.2	5351.9	6685.3	7406.1
17.5°	1662.7	2101.8	2630.9	3296.1	4031.5	5263.4	6937.6	7768.3
20°	1145.0	1464.5	2029.7	2809.5	3694.0	5252.0	7422.5	8462.7
22.5°	958.3	1100.9	1513.7	2362.3	3440.1	5392.8	8174.4	9437.5
25°	886.2	971.5	1209.0	1974.0	3255.1	5717.2	9209.8	10698.8
27.5°	843.7	920.6	1097.6	1720.1	3109.3	6094.1	10217.3	11920.9
30°	860.1	938.6	1066.5	1590.7	2911.0	6408.5	11111.6	12874.3
32.5°	774.8	809.3	914.1	1476.0	2768.5	6672.3	11894.7	13664.0
35°	660.2	720.8	815.8	1421.9	2771.8	6849.3	12748.3	14673.1
37.5°	629.0	689.7	758.5	1402.3	2809.5	7037.6	13727.9	15855.8
40°	609.4	665.1	724.1	1390.8	2845.5	7209.6	14687.8	17025.6
42.5°	596.3	647.1	720.8	1351.5	2863.5	7363.5	15477.4	18019.9
45°	594.7	647.1	733.9	1312.2	2891.3	7529.0	16139.2	18755.5
47.5°	596.3	668.3	709.3	1264.6	2891.3	7805.9	16915.7	19412.3
50°	589.8	704.4	683.1	1197.5	2824.3	8330.2	17980.6	20292.0
52.5°	586.5	699.5	632.3	1094.3	2707.9	9162.3	19345.1	21504.3
55°	578.3	674.9	596.3	940.2	2572.0	10069.9	20806.5	22937.7
57.5°	570.2	597.9	576.7	806.0	2362.3	10708.7	21812.3	24056.6
60°	638.8	522.6	560.3	740.4	2082.2	10884.0	21772.9	24502.2
62.5°	591.4	489.8	538.9	725.7	1885.5	10392.5	20767.1	24261.3
65°	463.6	468.5	517.7	768.3	1833.2	9090.3	18984.8	23149.0
67.5°	424.3	447.2	496.4	822.4	1838.1	7278.5	16321.1	20726.2
70°	399.7	424.3	471.8	850.2	1851.2	5425.6	12903.8	16881.3
72.5°	371.9	393.2	443.9	855.2	1765.9	3941.4	9945.4	12412.4
75°	339.1	358.8	404.6	745.3	1462.9	2734.1	7607.7	8492.2
77.5°	301.4	316.2	355.5	575.0	1086.1	1749.6	5710.7	6203.7
80°	257.2	265.4	298.2	420.9	743.7	1094.3	4518.1	4978.4
82.5°	206.4	209.7	231.0	316.2	483.3	702.7	3025.7	3453.2
85°	145.8	145.8	158.9	229.3	329.3	445.6	1643.0	1821.7
87.5°	68.9	70.5	70.5	126.0	172.0	226.0	378.4	232.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)