

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: P193087

Luminaire Tested: **GLEON-AF-09-LED-E1-SLR-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193087
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA 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: 49616.8 lumens
Efficiency: N/A
Efficacy: 86.3 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): 575
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

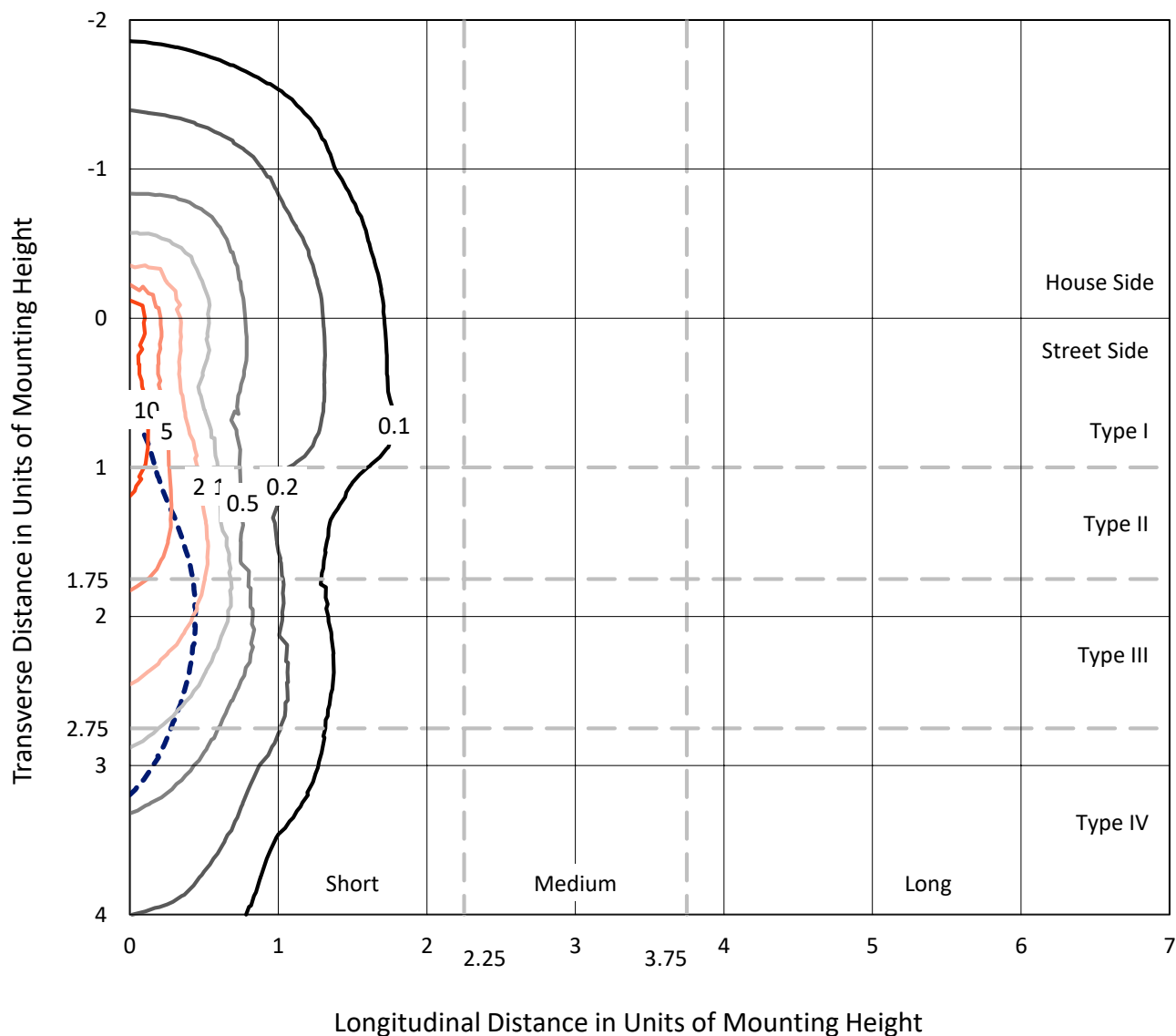


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

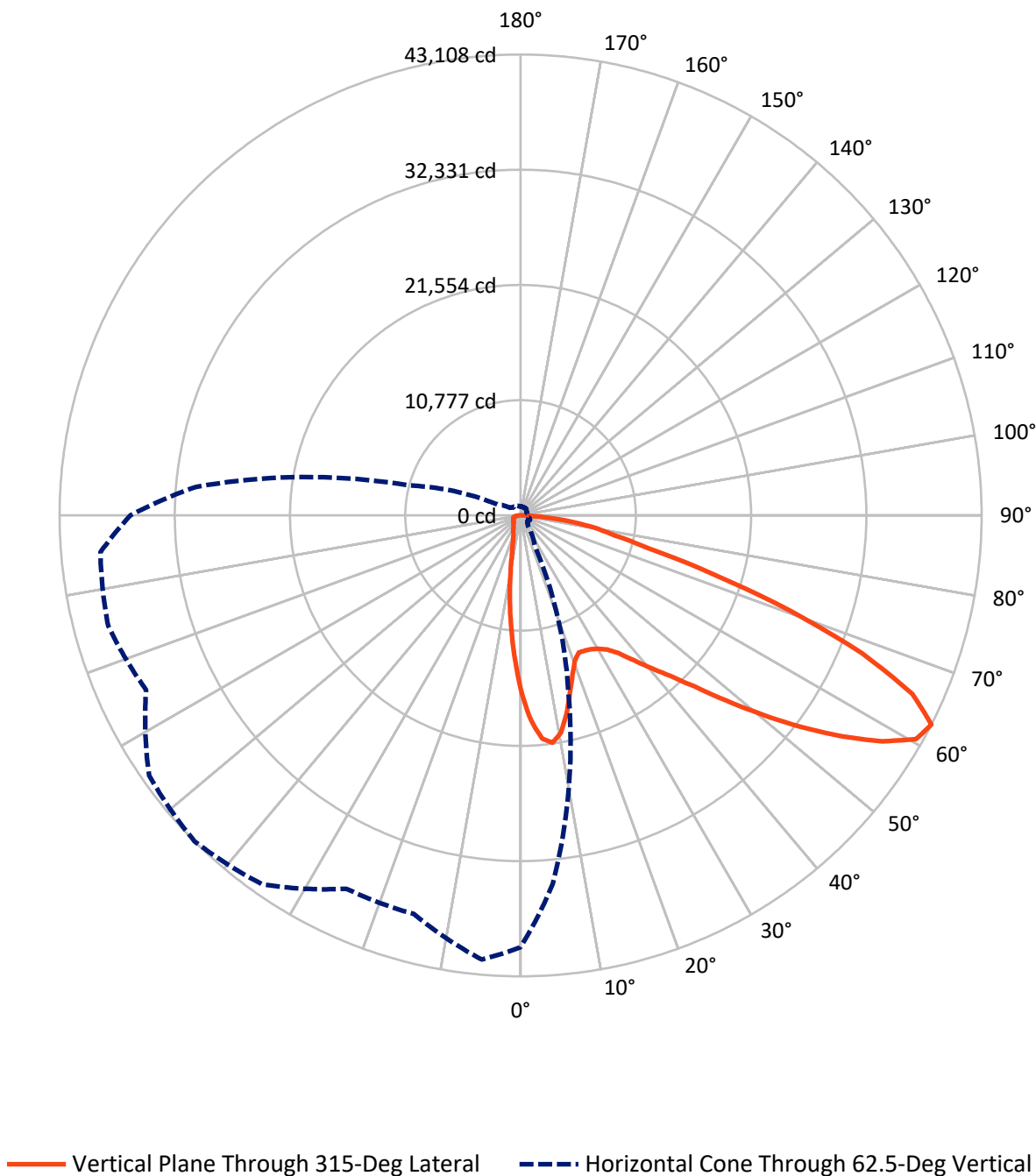


Based on 30 foot mounting height. Maximum calculated value = 18.6 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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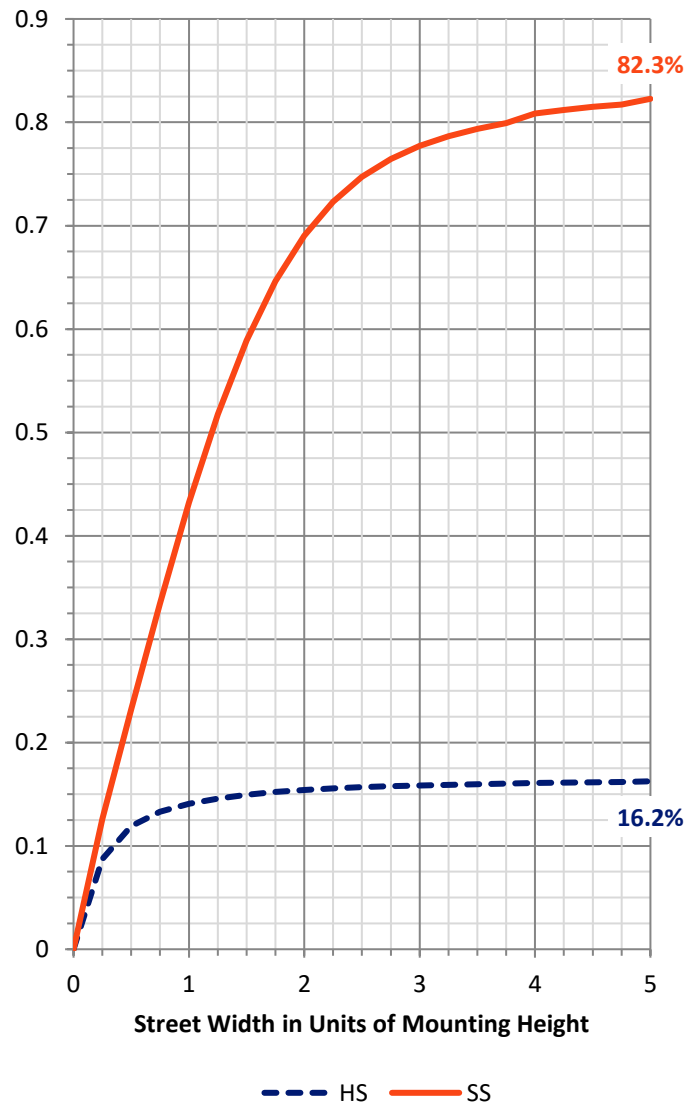
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8210.9	0.0	8210.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	41405.9	0.0	41405.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	49616.8	0.0	49616.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1220.3	2.5
10°-20°	2237.7	4.5
20°-30°	3262.5	6.6
30°-40°	5024.8	10.1
40°-50°	7395.1	14.9
50°-60°	10847.1	21.9
60°-70°	12125.5	24.4
70°-80°	5936.5	12.0
80°-90°	1567.4	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°	49616.8	100.0
0°-180°	49616.8	100.0

Coefficient of Utilization



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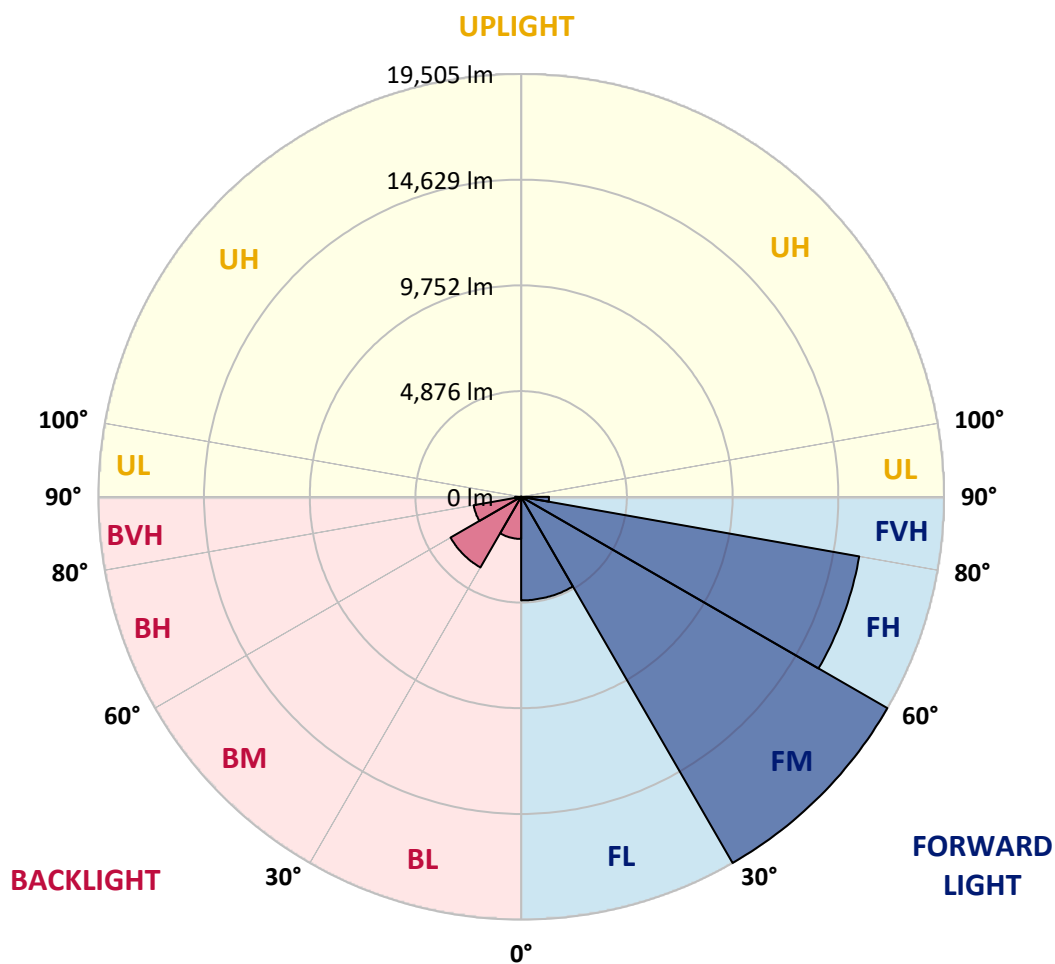
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4777.9	9.6			
FM	(30°-60°)	19504.8	39.3			
FH	(60°-80°)	15836.0	31.9			G5
FVH	(80°-90°)	1287.2	2.6			G5
BL	(0°-30°)	1942.6	3.9	B3/2500		
BM	(30°-60°)	3762.2	7.6	B3/5000		
BH	(60°-80°)	2226.0	4.5	B3/2500		G3/2500
BVH	(80°-90°)	280.2	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°	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2
2.5°	17417.8	17063.2	16474.1	15860.4	15486.7	15050.4	14709.5	14409.4	13809.4	13692.1	13798.5
5°	16378.6	15666.8	14556.7	13438.5	12693.8	11894.6	11272.9	10773.6	10012.6	9879.0	10040.0
7.5°	14712.2	13861.1	12393.9	10967.3	9914.5	8916.2	8245.2	7710.7	7116.0	6859.7	6876.0
10°	13274.8	12314.7	10580.0	9028.0	8166.1	7492.5	6927.9	6379.6	5776.9	5381.3	5272.3
12.5°	12470.2	11365.4	9366.2	7980.7	7181.5	6472.4	5864.2	5277.8	4634.0	4230.4	4115.8
15°	12331.0	11130.9	8910.7	7309.7	6308.7	5411.4	4694.0	4039.5	3376.6	3049.3	2981.1
17.5°	12933.8	11551.0	8763.4	6712.4	5487.8	4380.4	3499.3	2768.4	2228.4	2064.7	2051.2
20°	14090.3	12358.4	8744.3	6150.5	4677.7	3379.4	2438.3	1906.6	1669.3	1622.8	1625.6
22.5°	15713.1	13610.2	8978.9	5727.8	3933.0	2520.2	1833.0	1595.6	1502.9	1459.2	1459.2
25°	17813.3	15334.0	9519.0	5419.6	3286.6	2012.9	1617.4	1475.5	1388.2	1358.3	1363.8
27.5°	19848.0	17011.4	10146.4	5176.8	2863.9	1827.5	1532.9	1404.6	1328.3	1298.3	1311.8
30°	21435.5	18500.7	10670.0	4846.7	2648.5	1775.6	1562.9	1432.0	1322.8	1276.4	1279.2
32.5°	22750.1	19804.5	11109.2	4609.4	2457.5	1522.0	1347.3	1290.2	1276.4	1221.9	1194.6
35°	24430.3	21225.5	11403.7	4614.9	2367.4	1358.3	1200.1	1099.1	1025.5	962.8	962.8
37.5°	26399.5	22856.5	11717.4	4677.7	2334.8	1262.8	1148.4	1047.4	979.2	919.2	908.3
40°	28347.0	24454.9	12003.8	4737.7	2315.6	1205.5	1107.4	1014.6	951.8	891.9	875.5
42.5°	30002.5	25769.5	12260.1	4767.6	2250.2	1200.1	1077.4	992.8	932.8	867.3	851.0
45°	31227.2	26871.3	12535.7	4814.1	2184.7	1221.9	1077.4	990.1	916.4	853.8	837.4
47.5°	32320.8	28164.2	12996.5	4814.1	2105.7	1181.0	1112.8	992.8	913.7	848.3	834.6
50°	33785.5	29937.0	13869.4	4702.2	1993.8	1137.4	1172.8	981.9	889.2	837.4	821.0
52.5°	35803.9	32209.1	15254.9	4508.6	1822.0	1052.8	1164.6	976.4	864.6	810.0	790.9
55°	38190.5	34642.1	16766.0	4282.2	1565.5	992.8	1123.7	962.8	837.4	777.4	758.3
57.5°	40053.4	36316.6	17829.7	3933.0	1341.9	960.1	995.6	949.1	804.5	741.9	725.5
60°	40795.2	36251.2	18121.5	3466.7	1232.9	932.8	870.0	1063.7	777.4	714.5	695.6
62.5°	40394.3	34576.5	17303.3	3139.3	1208.3	897.3	815.5	984.7	755.5	695.6	668.2
65°	38542.3	31609.0	15134.9	3052.0	1279.2	861.8	780.1	771.9	725.5	668.2	641.0
67.5°	34508.3	27174.1	12118.3	3060.3	1369.2	826.4	744.6	706.5	684.6	638.2	613.7
70°	28107.0	21484.5	9033.4	3082.1	1415.6	785.6	706.5	665.5	641.0	594.6	578.2
72.5°	20666.3	16558.7	6562.3	2940.2	1423.7	739.1	654.6	619.2	594.6	545.5	531.9
75°	14139.4	12666.5	4552.2	2435.6	1240.9	673.7	597.3	564.6	548.3	488.2	480.0
77.5°	10329.1	9508.1	2913.0	1808.4	957.3	591.8	526.4	501.8	490.9	425.4	414.5
80°	8288.9	7522.5	1822.0	1238.2	701.0	496.4	441.9	428.2	417.3	351.9	343.6
82.5°	5749.6	5037.7	1170.0	804.5	526.4	384.6	349.1	343.6	327.3	267.2	259.2
85°	3033.0	2735.7	741.9	548.3	381.9	264.5	242.8	242.8	234.6	177.3	171.9
87.5°	387.4	630.1	376.4	286.4	210.0	117.2	117.2	114.5	122.7	100.9	87.3
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°	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2
2.5°	13547.5	13678.3	13552.9	13561.1	13700.2	14114.8	14303.0	14458.5	14624.9	14733.9	14783.1
5°	9819.0	10124.5	10228.1	10446.4	10768.1	11297.3	11507.3	11660.0	11761.0	11821.0	11845.6
7.5°	6715.1	6900.6	7107.9	7459.6	8160.7	8471.6	8610.7	8575.3	8460.7	8419.8	8378.9
10°	5062.2	4988.6	4950.4	5144.0	5711.4	6025.1	6123.2	6027.9	5965.0	5978.6	6046.9
12.5°	3922.2	3793.9	3638.5	3616.7	3990.3	4271.3	4334.0	4339.4	4454.1	4554.9	4704.9
15°	2858.4	2844.8	2768.4	2722.0	2934.8	3163.9	3191.1	3240.3	3343.9	3417.5	3548.5
17.5°	2015.7	2089.2	2149.2	2179.2	2340.3	2503.9	2473.8	2449.3	2430.3	2430.3	2493.0
20°	1625.6	1674.7	1751.1	1838.3	2001.9	2116.6	2042.9	1944.7	1873.8	1852.0	1860.1
22.5°	1464.6	1502.9	1546.4	1622.8	1770.1	1849.2	1770.1	1699.2	1628.3	1603.8	1595.6
25°	1382.9	1432.0	1472.9	1530.1	1639.2	1693.7	1617.4	1565.5	1522.0	1491.9	1470.1
27.5°	1336.5	1380.2	1391.0	1418.3	1511.0	1560.1	1522.0	1500.1	1472.9	1445.6	1418.3
30°	1287.4	1279.2	1260.1	1262.8	1336.5	1385.6	1382.9	1388.2	1385.6	1377.4	1372.0
32.5°	1175.5	1159.2	1142.9	1159.2	1227.4	1271.0	1273.8	1284.7	1284.7	1281.9	1303.8
35°	979.2	1009.2	1028.2	1077.4	1159.2	1197.4	1181.0	1153.8	1104.6	1074.7	1072.0
37.5°	905.5	911.0	943.7	1011.8	1101.9	1137.4	1112.8	1050.1	1017.3	1011.8	1020.1
40°	870.0	875.5	894.7	957.3	1047.4	1082.9	1061.0	1014.6	984.7	981.9	995.6
42.5°	845.5	851.0	861.8	905.5	979.2	1022.7	1025.5	992.8	957.3	960.1	973.7
45°	831.9	834.6	831.9	853.8	921.9	973.7	995.6	973.7	943.7	949.1	965.6
47.5°	829.2	821.0	810.0	815.5	886.4	938.2	965.6	957.3	943.7	949.1	962.8
50°	818.3	799.1	785.6	782.9	853.8	908.3	932.8	932.8	938.2	949.1	962.8
52.5°	785.6	763.7	763.7	755.5	831.9	883.7	900.1	902.8	911.0	930.2	949.1
55°	744.6	736.4	744.6	731.0	815.5	864.6	872.8	878.2	883.7	900.1	927.4
57.5°	709.2	698.2	717.3	711.9	801.9	845.5	845.5	856.5	856.5	878.2	900.1
60°	690.1	668.2	676.5	681.9	782.9	829.2	823.7	834.6	840.1	859.3	875.5
62.5°	665.5	646.4	646.4	660.0	761.0	804.5	801.9	810.0	831.9	837.4	853.8
65°	635.6	627.3	619.2	635.6	739.1	777.4	780.1	790.9	810.0	815.5	829.2
67.5°	605.6	608.2	591.8	608.2	720.0	750.1	750.1	771.9	780.1	790.9	804.5
70°	572.7	575.5	561.8	580.9	706.5	720.0	717.3	747.4	752.8	761.0	774.6
72.5°	531.9	531.9	526.4	553.7	684.6	690.1	684.6	709.2	711.9	720.0	725.5
75°	488.2	488.2	482.8	520.9	671.0	657.3	641.0	660.0	665.5	671.0	671.0
77.5°	430.9	436.4	436.4	482.8	624.6	643.6	589.1	600.1	608.2	611.0	602.8
80°	360.0	373.6	379.1	439.1	523.7	594.6	526.4	534.6	537.3	537.3	526.4
82.5°	275.5	300.0	313.7	379.1	401.0	499.1	458.3	466.4	458.3	441.9	436.4
85°	190.8	223.7	240.1	289.1	302.7	384.6	381.9	381.9	365.5	343.6	340.9
87.5°	103.7	122.7	133.7	171.9	207.3	259.2	280.9	272.7	259.2	245.5	248.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2
2.5°	15039.4	15410.4	16002.2	16455.0	16910.5	17349.6	17824.2	18187.0	18495.2	18615.1	18980.7
5°	12093.8	12557.3	13116.6	14125.7	14840.3	15628.6	16539.5	17745.2	18208.8	18849.7	19899.8
7.5°	8550.7	8970.7	9870.8	10686.3	11698.3	12813.8	14043.9	15707.6	16315.9	17344.2	19054.4
10°	6385.1	6873.3	7596.1	8283.4	9175.4	10315.3	11728.2	13588.5	14327.6	15443.1	17412.4
12.5°	5144.0	5719.6	6485.9	7132.5	7822.5	8627.1	9999.1	12039.2	13029.2	14005.7	15996.7
15°	3952.1	4554.9	5266.9	6087.8	6848.8	7716.1	9153.5	11384.6	12524.7	13542.0	15241.3
17.5°	2735.7	3251.2	4148.6	5004.9	5978.6	7088.7	8919.0	11523.7	12884.7	14057.6	15372.2
20°	1939.3	2233.8	2970.2	3963.1	5176.8	6570.6	8875.3	12254.6	14024.8	15364.0	16212.3
22.5°	1631.0	1740.2	2168.4	3079.4	4481.3	6183.2	9028.0	13280.3	15563.1	17273.3	17551.5
25°	1486.5	1551.9	1775.6	2416.6	3862.1	5902.3	9543.6	14807.6	17467.0	19182.5	19133.5
27.5°	1407.4	1475.5	1622.8	2040.2	3395.8	5727.8	10059.1	16618.7	19643.5	21255.4	20644.4
30°	1382.9	1475.5	1631.0	1922.9	3063.0	5452.2	10481.8	18208.8	21318.1	22654.7	21331.8
32.5°	1363.8	1377.4	1448.3	1658.3	2746.6	5130.5	10768.1	19635.3	22957.4	23985.6	22321.8
35°	1101.9	1170.0	1284.7	1486.5	2561.1	4936.8	10768.1	20865.4	24572.1	25330.3	23265.5
37.5°	1061.0	1121.0	1221.9	1393.7	2457.5	4841.3	10552.7	22051.9	26222.2	26855.0	24042.9
40°	1039.2	1088.2	1183.8	1322.8	2413.9	4732.2	10239.0	23099.3	27834.2	28382.4	24768.4
42.5°	1022.7	1066.5	1156.5	1279.2	2356.6	4612.2	9985.4	23939.2	29233.4	29686.2	25461.2
45°	1014.6	1061.0	1159.2	1301.1	2242.0	4454.1	9900.8	24847.5	30384.4	30774.4	26211.3
47.5°	1014.6	1069.2	1172.8	1347.3	2105.7	4290.4	10165.4	26044.9	31472.6	31663.6	27094.9
50°	1006.5	1066.5	1211.0	1301.1	1906.6	4083.0	10787.2	27553.2	32650.9	32672.8	28213.3
52.5°	990.1	1061.0	1303.8	1273.8	1677.4	3810.3	11627.4	29489.7	34393.8	34524.8	29964.4
55°	971.0	1052.8	1279.2	1211.0	1489.2	3485.7	12314.7	31843.6	36843.1	37205.8	32539.1
57.5°	946.4	1041.9	1238.2	1123.7	1366.5	3068.4	12562.8	33567.4	38553.2	39464.2	35441.2
60°	924.7	1033.7	1118.3	1072.0	1290.2	2716.6	12082.9	33226.4	38436.0	40399.8	38013.2
62.5°	902.8	1041.9	1020.1	1039.2	1254.7	2490.2	10828.1	30496.2	36491.3	39434.3	39919.7
65°	878.2	968.2	962.8	1011.8	1246.4	2400.2	8976.2	26402.3	32732.8	36382.1	40369.7
67.5°	845.5	894.7	921.9	976.4	1273.8	2321.1	7244.2	21779.0	27509.7	31808.1	38024.1
70°	810.0	851.0	880.9	932.8	1257.3	2285.6	6025.1	17175.1	21828.3	26069.5	33395.5
72.5°	763.7	799.1	826.4	875.5	1240.9	2266.6	5089.6	13831.1	16296.8	19365.2	27152.2
75°	709.2	741.9	761.0	810.0	1189.2	2075.6	4001.3	11703.8	12194.7	13471.1	21626.3
77.5°	646.4	671.0	687.4	741.9	1052.8	1726.6	2893.8	9028.0	9469.9	9780.8	16580.5
80°	572.7	597.3	605.6	657.3	872.8	1350.1	1887.5	6668.7	7083.3	7154.2	10828.1
82.5°	488.2	512.8	512.8	561.8	714.5	971.0	1238.2	4568.5	4650.4	4890.5	7653.4
85°	392.8	411.9	411.9	436.4	553.7	725.5	851.0	2293.8	2269.4	2591.1	6630.5
87.5°	280.9	294.6	308.2	313.7	395.5	480.0	512.8	698.2	461.0	529.2	4257.7
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°	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2	16763.2
2.5°	19256.2	19411.6	19253.4	19138.8	18645.2	18238.7	17696.0	17417.8
5°	20699.0	21094.4	20960.9	20480.8	19449.8	18290.6	16973.2	16378.6
7.5°	20524.5	21443.7	21465.4	20568.0	19049.0	17341.4	15557.7	14712.2
10°	19166.1	20341.7	20677.2	19807.2	18195.2	16285.9	14240.3	13274.8
12.5°	17649.6	18800.7	19057.1	18757.1	17409.7	15492.2	13416.6	12470.2
15°	16408.7	16924.1	17229.6	17491.5	16736.0	15175.8	13370.2	12331.0
17.5°	15653.1	15595.8	15683.2	16138.6	16266.8	15538.7	14079.3	12933.8
20°	15380.4	14504.8	14483.1	15110.3	16046.0	16403.2	15465.0	14090.3
22.5°	15530.4	14112.2	13932.0	14676.7	16163.2	17649.6	17281.4	15713.1
25°	16048.6	14144.8	14000.3	14720.3	16588.8	18978.0	19242.5	17813.3
27.5°	16864.1	14352.1	14161.2	14900.3	17153.2	20093.6	21173.6	19848.0
30°	17638.9	14712.2	14474.8	15254.9	17668.8	20535.4	22357.4	21435.5
32.5°	18579.7	15385.9	14968.5	15906.8	18307.1	21239.0	23412.8	22750.1
35°	19501.6	16346.0	15827.8	16913.3	19018.9	22114.6	24618.4	24430.3
37.5°	20513.5	17600.6	17172.4	18214.3	19992.6	22941.0	26156.7	26399.5
40°	21593.7	19264.4	18757.1	20112.6	21503.7	23977.5	27763.3	28347.0
42.5°	22681.9	21110.8	20505.3	21880.0	23164.7	25000.2	29138.0	30002.5
45°	23928.5	23115.6	22829.1	24315.6	24760.3	25973.9	30152.5	31227.2
47.5°	25379.4	25390.3	25851.3	26445.8	26369.5	27076.0	31172.6	32320.8
50°	27073.3	28229.7	29247.1	29642.5	28027.8	28259.7	32588.2	33785.5
52.5°	29107.9	31625.4	32885.5	32626.4	29814.3	29705.2	34830.2	35803.9
55°	31652.6	35220.3	36472.2	36286.7	31868.2	31674.5	37623.2	38190.5
57.5°	34598.4	38703.2	39854.3	39019.6	34333.8	33834.7	39933.3	40053.4
60°	37186.8	41463.5	42472.7	41548.0	36821.3	36134.0	41376.3	40795.2
62.5°	38626.9	42399.0	43108.1	42112.7	38526.0	38583.3	41692.6	40394.3
65°	37983.2	40034.3	40263.3	40181.6	38086.9	40004.3	40555.3	38542.3
67.5°	34459.3	34055.6	34440.1	34972.0	34322.9	38133.2	37405.0	34508.3
70°	28251.5	26034.0	26800.4	27157.7	27452.3	32814.6	32465.6	28107.0
72.5°	21291.0	18238.7	18844.3	18770.6	20134.4	26320.4	25248.5	20666.3
75°	15085.9	12366.5	12442.9	12412.8	14049.3	20592.6	18282.5	14139.4
77.5°	10555.4	8959.8	9000.8	9169.9	9445.4	15530.4	13062.1	10329.1
80°	7257.9	6799.6	7026.0	7039.7	6546.0	10432.7	9649.9	8288.9
82.5°	5405.9	4726.8	4672.3	4751.3	5130.5	8452.6	7416.1	5749.6
85°	4426.7	2798.4	2250.2	2820.2	4546.8	8370.7	4925.9	3033.0
87.5°	2493.0	1328.3	600.1	1112.8	1813.8	5542.2	1423.7	387.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)