

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: P192084

Luminaire Tested: **GLEON-AF-06-LED-E1-SLL-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192084
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-06-LED-E1-SLL-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 800mA 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: 25278 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

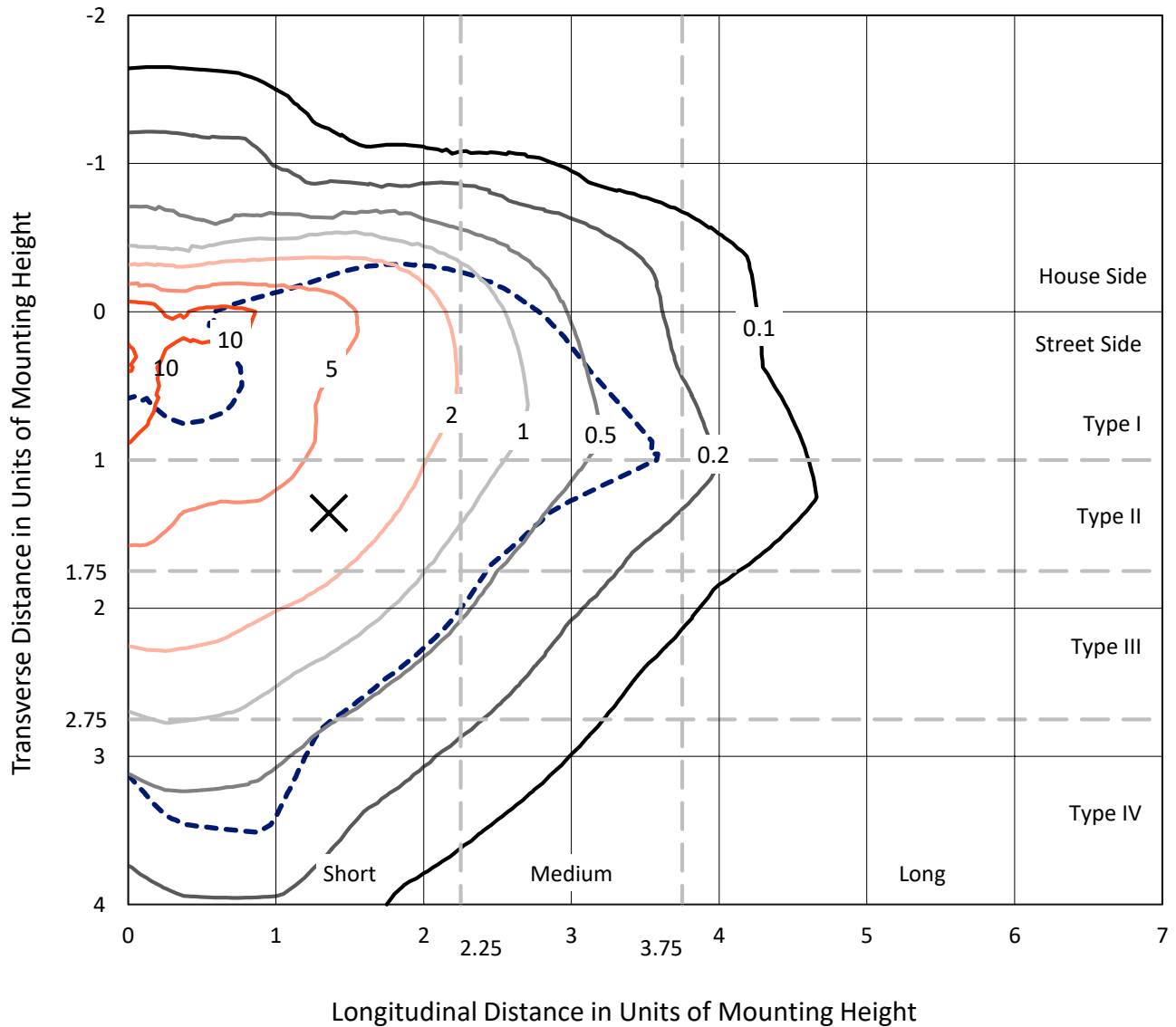


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Iso-Footcandle Lines of Horizontal Illumination

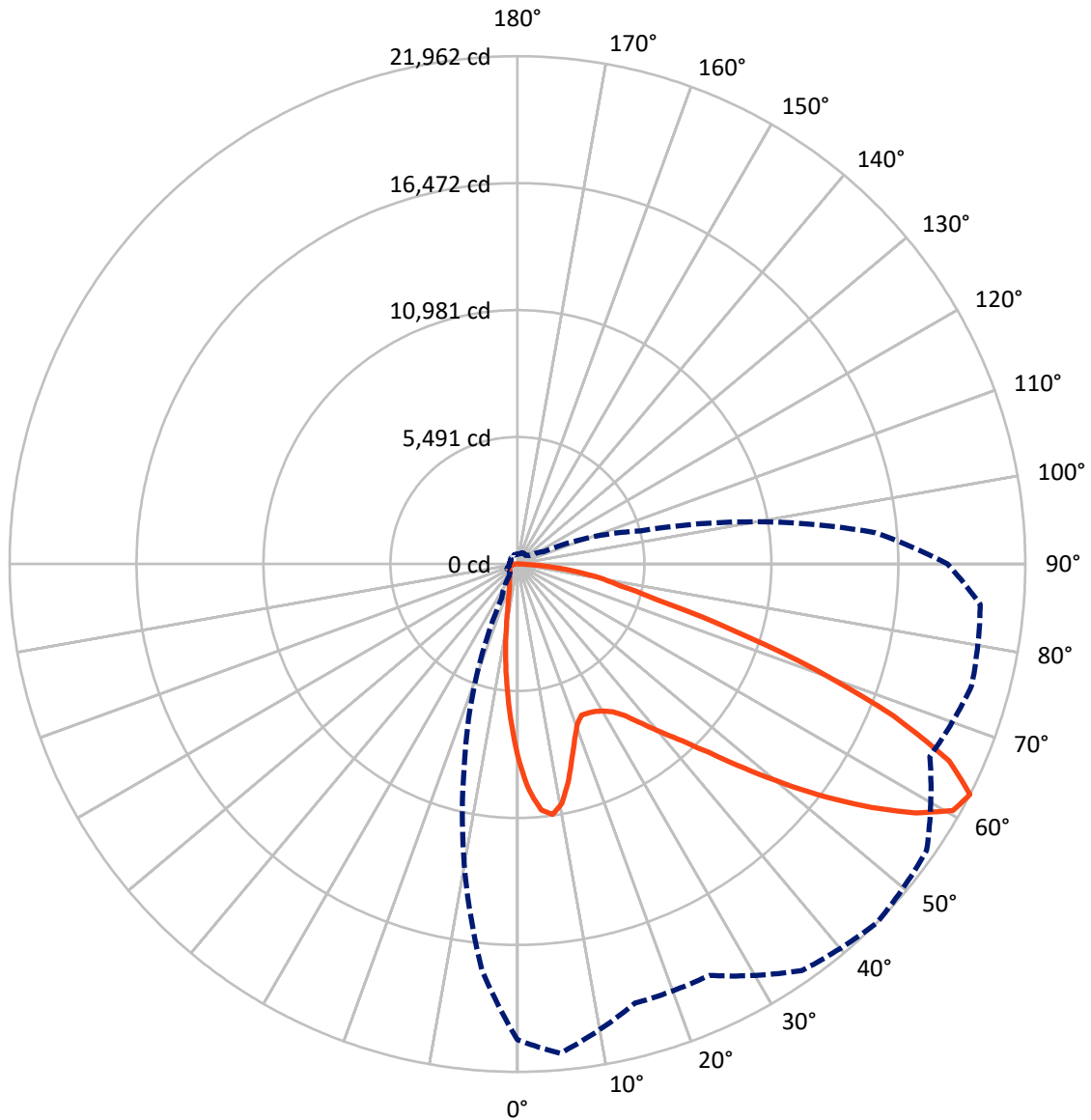
✕ Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4183.2	0.0	4183.2
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21094.8	0.0	21094.8
	% Fixture	83.5	0.0	83.5
Total	Lumens	25278.0	0.0	25278.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.7	2.5
10°-20°	1140.0	4.5
20°-30°	1662.1	6.6
30°-40°	2559.9	10.1
40°-50°	3767.6	14.9
50°-60°	5526.2	21.9
60°-70°	6177.5	24.4
70°-80°	3024.4	12.0
80°-90°	798.5	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°	25278.0	100.0
0°-180°	25278.0	100.0



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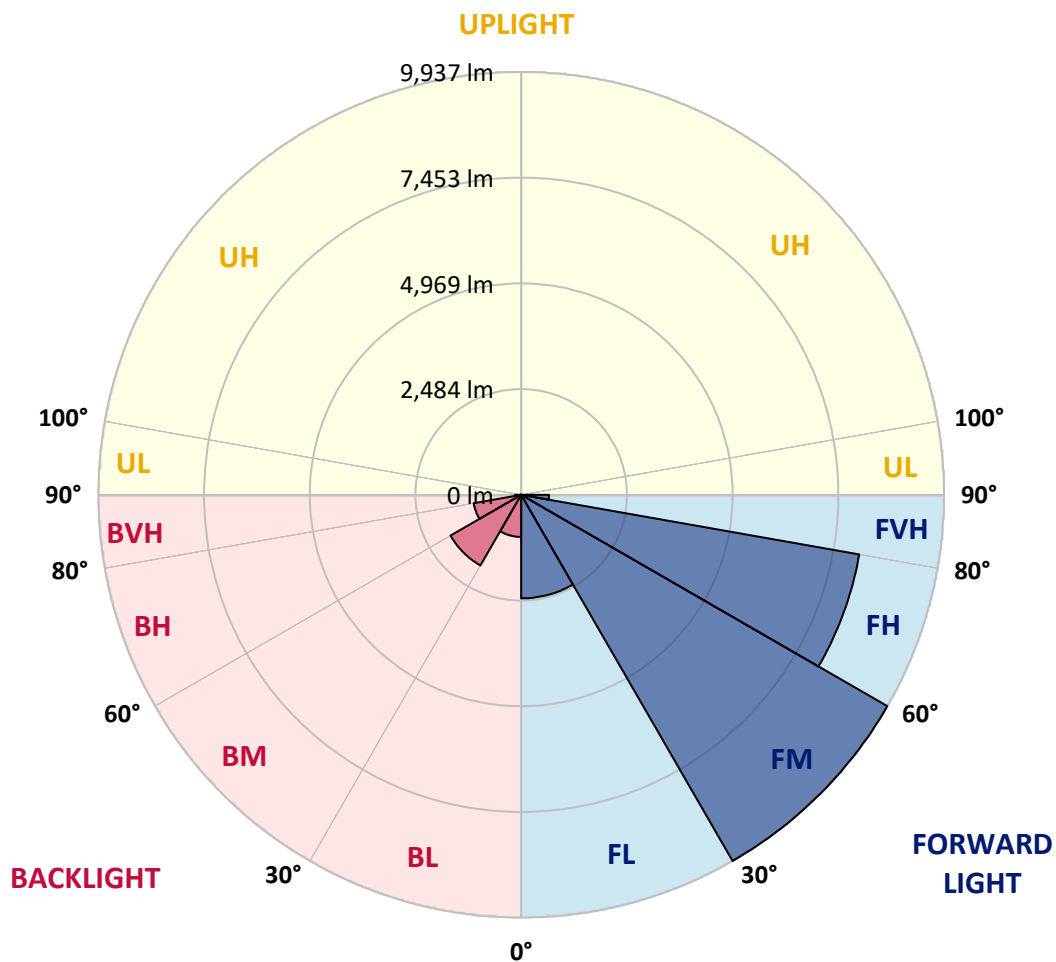
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2434.2	9.6			
FM	(30°-60°)	9937.0	39.3			
FH	(60°-80°)	8067.9	31.9			G4/12000
FVH	(80°-90°)	655.8	2.6			G4/750
BL	(0°-30°)	989.7	3.9	B2/1000		
BM	(30°-60°)	1916.7	7.6	B2/2500		
BH	(60°-80°)	1134.1	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3
2.5°	8873.8	9015.5	9292.0	9499.1	9750.6	9808.9	9889.5	9810.3	9670.0	9483.8	9422.6
5°	8344.3	8647.3	9318.4	9909.0	10434.2	10678.8	10746.9	10545.4	10138.3	9603.3	9276.7
7.5°	7495.3	7926.1	8834.9	9704.7	10478.7	10935.9	10924.8	10456.5	9707.5	8836.2	8312.4
10°	6763.0	7254.9	8297.1	9269.8	10091.0	10534.3	10363.4	9764.5	8871.0	7867.7	7299.4
12.5°	6353.1	6835.3	7892.7	8869.6	9556.0	9708.9	9578.3	8991.9	8149.8	7135.4	6638.0
15°	6282.2	6811.7	7731.5	8526.4	8911.3	8777.9	8622.3	8359.6	7764.9	6899.2	6380.9
17.5°	6589.3	7172.9	7916.4	8287.4	8222.1	7990.0	7945.5	7974.7	7831.6	7161.8	6564.3
20°	7178.5	7878.8	8356.8	8174.8	7698.2	7378.6	7389.7	7835.8	8259.6	7827.4	7145.1
22.5°	8005.3	8804.3	8991.9	8234.6	7477.3	7097.9	7189.6	7912.2	8941.9	8800.1	7928.9
25°	9075.3	9803.4	9668.6	8451.3	7499.5	7132.6	7206.3	8176.2	9747.8	9772.8	8898.8
27.5°	10111.9	10787.2	10236.9	8739.0	7591.2	7214.6	7311.9	8591.7	10517.6	10828.9	10007.7
30°	10920.6	11390.3	10462.0	9001.6	7771.8	7374.4	7495.3	8986.3	10867.8	11541.7	10860.8
32.5°	11590.4	11928.0	10820.5	9326.8	8103.9	7625.9	7838.5	9465.7	11372.2	12219.8	11696.0
35°	12446.3	12542.2	11266.6	9689.4	8616.7	8063.6	8327.7	9935.4	11853.0	12904.9	12518.6
37.5°	13449.6	13325.9	11687.6	10185.5	9279.5	8748.7	8966.9	10450.9	12249.0	13681.7	13359.3
40°	14441.8	14144.4	12215.7	10955.3	10246.7	9556.0	9814.5	11001.2	12618.6	14459.8	14180.5
42.5°	15285.2	14844.7	12736.8	11801.6	11147.1	10446.8	10755.2	11555.6	12971.6	15124.0	14893.4
45°	15909.1	15361.6	13232.8	12614.5	12388.0	11630.7	11776.6	12190.7	13353.7	15678.5	15479.8
47.5°	16466.4	15881.3	13794.2	13434.3	13473.2	13170.3	12935.5	12929.9	13803.9	16131.5	16034.2
50°	17212.5	16602.5	14397.3	14279.2	15101.8	14900.3	14382.0	13792.8	14373.7	16645.6	16634.5
52.5°	18240.8	17744.8	15133.8	15189.3	16622.0	16754.0	16112.0	14829.4	15265.8	17589.1	17522.4
55°	19456.7	19167.7	16137.0	16235.7	18486.8	18581.3	17943.5	16125.9	16577.5	18955.1	18770.3
57.5°	20405.8	20344.6	17237.6	17491.9	19879.1	20304.3	19717.9	17626.6	18056.0	20105.6	19641.5
60°	20783.7	21079.7	18409.0	18759.1	21167.3	21638.3	21124.2	18945.3	19366.4	20582.2	19581.8
62.5°	20579.5	21240.9	19656.8	19627.6	21454.9	21962.1	21600.8	19679.0	20337.7	20090.3	18591.0
65°	19636.0	20661.5	20380.8	19403.9	20471.1	20512.8	20396.0	19351.1	20567.0	18535.4	16676.2
67.5°	17580.8	19056.5	19427.5	17486.3	17817.0	17546.0	17350.1	17555.8	19371.9	16205.1	14015.2
70°	14319.5	16540.0	16717.9	13986.0	13835.9	13653.9	13263.4	14393.1	17013.8	13281.5	11120.7
72.5°	10528.7	12863.2	13409.3	10257.8	9563.0	9600.5	9292.0	10846.9	13833.1	9865.9	8302.7
75°	7203.5	9314.3	10491.2	7157.7	6323.9	6339.2	6300.3	7685.7	11017.9	6863.1	6212.7
77.5°	5262.3	6654.6	7912.2	4812.1	4671.7	4585.6	4564.7	5377.6	8447.2	4983.0	4824.6
80°	4222.9	4916.3	5315.1	3335.0	3586.5	3579.5	3464.2	3697.6	5516.6	3644.8	3608.7
82.5°	2929.2	3778.2	4306.3	2613.8	2420.6	2380.3	2408.1	2754.1	3899.1	2491.5	2369.2
85°	1545.2	2509.6	4264.6	2316.4	1436.8	1146.4	1425.7	2255.3	3378.0	1320.1	1156.1
87.5°	197.3	725.4	2823.6	924.1	566.9	305.7	676.7	1270.1	2169.1	269.6	234.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3
2.5°	9265.6	9080.8	8839.0	8615.3	8383.2	8152.6	7851.0	7662.1	7531.4	7506.4	7450.9
5°	9040.5	8426.3	7962.2	7560.6	7196.6	6682.4	6397.6	6161.3	6034.9	6022.4	5991.8
7.5°	8002.5	7154.9	6528.2	5959.8	5444.3	5028.8	4570.3	4356.3	4268.7	4289.6	4310.4
10°	6922.8	5975.1	5255.3	4674.5	4220.1	3869.9	3501.7	3253.0	3080.7	3045.9	3039.0
12.5°	6133.5	5094.1	4395.2	3985.3	3633.7	3304.4	2913.9	2620.7	2397.0	2320.6	2269.2
15°	5800.0	4663.4	3931.1	3489.2	3101.5	2683.3	2320.6	2013.5	1807.8	1741.1	1703.6
17.5°	5870.9	4543.9	3611.5	3045.9	2549.9	2113.5	1656.4	1393.7	1270.1	1238.1	1238.1
20°	6243.3	4521.6	3347.5	2637.4	2019.0	1513.2	1138.1	988.0	947.7	943.5	954.6
22.5°	6765.8	4599.5	3150.1	2283.1	1568.8	1104.7	886.5	831.0	812.9	817.1	829.6
25°	7544.0	4862.1	3007.0	1967.6	1231.2	904.6	790.7	757.3	749.0	760.1	775.4
27.5°	8466.6	5124.7	2918.1	1730.0	1039.4	826.8	751.8	717.0	722.6	736.5	750.4
30°	9276.7	5340.1	2777.7	1560.5	979.6	831.0	751.8	704.5	699.0	701.7	705.9
32.5°	10003.5	5486.0	2613.8	1399.3	844.9	737.9	701.7	694.8	664.2	653.1	654.5
35°	10630.2	5486.0	2515.1	1304.8	757.3	654.5	596.1	561.4	546.1	547.5	562.8
37.5°	11234.6	5376.2	2466.5	1252.0	710.1	622.5	571.1	540.5	519.7	515.5	518.3
40°	11768.2	5216.4	2410.9	1229.8	673.9	603.1	554.4	529.4	507.2	500.2	501.6
42.5°	12196.2	5087.2	2349.8	1200.6	651.7	589.2	543.3	521.1	496.1	489.1	487.7
45°	12658.9	5044.1	2269.2	1142.2	662.8	590.6	540.5	516.9	491.9	483.6	480.8
47.5°	13269.0	5178.9	2185.8	1072.7	686.4	597.5	544.7	516.9	490.5	483.6	480.8
50°	14037.4	5495.7	2080.2	971.3	662.8	617.0	543.3	512.7	490.5	483.6	478.0
52.5°	15024.0	5923.7	1941.2	854.6	648.9	664.2	540.5	504.4	483.6	473.8	464.1
55°	16223.2	6273.9	1775.9	758.7	617.0	651.7	536.4	494.7	472.5	458.6	450.2
57.5°	17101.4	6400.3	1563.3	696.2	572.5	630.9	530.8	482.2	458.6	447.4	436.3
60°	16927.7	6155.8	1384.0	657.3	546.1	569.7	526.6	471.1	446.1	437.7	428.0
62.5°	15536.7	5516.6	1268.7	639.2	529.4	519.7	530.8	459.9	434.9	426.6	423.8
65°	13451.0	4573.1	1222.8	635.0	515.5	490.5	493.3	447.4	422.4	415.5	412.7
67.5°	11095.7	3690.7	1182.5	648.9	497.5	469.7	455.8	430.8	409.9	403.0	397.4
70°	8750.1	3069.6	1164.5	640.6	475.2	448.8	433.5	412.7	394.6	387.7	383.5
72.5°	7046.5	2592.9	1154.7	632.3	446.1	421.0	407.1	389.1	369.6	366.8	362.7
75°	5962.6	2038.5	1057.5	605.9	412.7	387.7	378.0	361.3	341.8	341.8	339.1
77.5°	4599.5	1474.3	879.6	536.4	378.0	350.2	341.8	329.3	307.1	311.3	309.9
80°	3397.5	961.6	687.8	444.7	334.9	308.5	304.3	291.8	268.2	273.7	273.7
82.5°	2327.5	630.9	494.7	364.1	286.3	261.2	261.2	248.7	222.3	225.1	233.4
85°	1168.6	433.5	369.6	282.1	222.3	209.8	209.8	200.1	173.7	175.1	186.2
87.5°	355.7	261.2	244.6	201.5	159.8	157.0	150.1	143.1	126.5	125.1	132.0
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°	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3
2.5°	7366.1	7286.9	7191.0	6979.8	6908.9	6904.8	6968.7	6902.0	7029.8	6975.6	7035.4
5°	5940.4	5862.6	5755.6	5486.0	5322.0	5210.9	5158.1	5002.4	5115.0	5033.0	5101.1
7.5°	4368.8	4386.9	4316.0	4157.6	3800.5	3621.2	3515.6	3421.1	3503.1	3494.8	3625.4
10°	3070.9	3119.6	3069.6	2909.8	2620.7	2522.1	2541.5	2579.0	2686.0	2741.6	2943.1
12.5°	2210.8	2208.0	2176.1	2032.9	1842.6	1853.7	1932.9	1998.2	2096.9	2155.2	2360.9
15°	1650.8	1625.8	1611.9	1495.2	1386.8	1410.4	1449.3	1456.3	1518.8	1553.5	1720.3
17.5°	1247.8	1260.3	1275.6	1192.2	1110.3	1095.0	1064.4	1026.9	1045.0	1051.9	1135.3
20°	990.8	1040.8	1078.3	1019.9	936.6	892.1	853.2	828.2	828.2	826.8	850.4
22.5°	865.7	901.8	942.1	901.8	826.8	787.9	765.7	746.2	743.4	743.4	765.7
25°	797.6	824.0	862.9	835.1	779.5	750.4	729.5	704.5	694.8	692.0	707.3
27.5°	764.3	775.4	794.8	769.8	722.6	708.7	703.1	680.9	668.4	661.4	676.7
30°	707.3	704.5	705.9	680.9	643.4	642.0	651.7	655.9	651.7	650.3	673.9
32.5°	654.5	648.9	647.5	625.3	590.6	582.2	590.6	598.9	608.6	622.5	650.3
35°	587.8	601.7	610.0	590.6	548.9	523.9	514.1	498.9	490.5	490.5	522.5
37.5°	535.0	566.9	579.4	561.4	515.5	480.8	464.1	461.3	462.7	468.3	498.9
40°	516.9	540.5	551.7	533.6	487.7	455.8	446.1	443.3	446.1	454.4	485.0
42.5°	505.8	522.5	521.1	498.9	461.3	439.1	433.5	430.8	433.5	441.9	475.2
45°	496.1	507.2	496.1	469.7	434.9	423.8	425.2	423.8	426.6	434.9	466.9
47.5°	487.7	491.9	478.0	451.6	415.5	412.7	418.3	422.4	425.2	432.2	465.5
50°	475.2	475.2	462.7	434.9	398.8	400.2	407.1	416.9	418.3	426.6	453.0
52.5°	459.9	458.6	450.2	423.8	384.9	389.1	389.1	400.2	403.0	412.7	440.5
55°	447.4	444.7	440.5	415.5	372.4	379.4	375.2	379.4	386.3	396.0	426.6
57.5°	436.3	430.8	430.8	408.5	362.7	365.5	355.7	361.3	369.6	378.0	409.9
60°	425.2	419.6	422.4	398.8	347.4	344.6	340.4	351.6	354.3	364.1	396.0
62.5°	412.7	408.5	409.9	387.7	336.3	329.3	329.3	339.1	340.4	354.3	384.9
65°	403.0	397.4	396.0	376.6	323.8	315.4	319.6	323.8	326.5	340.4	369.6
67.5°	393.2	382.1	382.1	366.8	309.9	301.5	309.9	308.5	312.7	325.2	348.8
70°	380.7	365.5	366.8	359.9	296.0	286.3	293.2	291.8	294.6	302.9	326.5
72.5°	361.3	348.8	351.6	348.8	282.1	268.2	271.0	271.0	271.0	277.9	302.9
75°	336.3	326.5	334.9	341.8	265.4	246.0	248.7	248.7	244.6	248.7	279.3
77.5°	305.7	300.1	327.9	318.2	246.0	222.3	222.3	219.6	211.2	216.8	250.1
80°	272.4	268.2	302.9	266.8	223.7	193.1	190.4	183.4	175.1	179.3	212.6
82.5°	237.6	233.4	254.3	204.3	193.1	159.8	152.9	140.3	132.0	136.2	166.7
85°	194.5	194.5	195.9	154.2	147.3	122.3	113.9	97.3	87.5	90.3	119.5
87.5°	139.0	143.1	132.0	105.6	87.5	68.1	62.5	52.8	44.5	51.4	62.5
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3	8540.3
2.5°	7341.1	7493.9	7667.6	7890.0	8080.3	8393.0	8693.1	8873.8
5°	5488.8	5743.1	6059.9	6467.0	6846.4	7416.1	7981.7	8344.3
7.5°	3928.3	4200.7	4542.5	5051.1	5587.4	6314.2	7061.8	7495.3
10°	3250.2	3529.5	3817.1	4160.4	4599.5	5390.1	6273.9	6763.0
12.5°	2688.8	2987.6	3297.4	3658.7	4065.9	4771.8	5790.3	6353.1
15°	2057.9	2391.4	2756.9	3214.1	3724.0	4539.7	5670.8	6282.2
17.5°	1410.4	1782.8	2231.6	2795.8	3419.7	4464.7	5884.8	6589.3
20°	971.3	1242.3	1721.7	2383.1	3133.5	4454.9	6296.1	7178.5
22.5°	812.9	933.8	1284.0	2003.8	2918.1	4574.4	6933.9	8005.3
25°	751.8	824.0	1025.5	1674.4	2761.1	4849.6	7812.1	9075.3
27.5°	715.6	780.9	931.0	1459.0	2637.4	5169.2	8666.7	10111.9
30°	729.5	796.2	904.6	1349.3	2469.3	5436.0	9425.4	10920.6
32.5°	657.3	686.4	775.4	1252.0	2348.4	5659.7	10089.6	11590.4
35°	560.0	611.4	692.0	1206.1	2351.1	5809.8	10813.6	12446.3
37.5°	533.6	585.0	643.4	1189.5	2383.1	5969.6	11644.6	13449.6
40°	516.9	564.2	614.2	1179.7	2413.7	6115.5	12458.8	14441.8
42.5°	505.8	548.9	611.4	1146.4	2429.0	6246.1	13128.6	15285.2
45°	504.4	548.9	622.5	1113.0	2452.6	6386.4	13690.0	15909.1
47.5°	505.8	566.9	601.7	1072.7	2452.6	6621.3	14348.7	16466.4
50°	500.2	597.5	579.4	1015.8	2395.6	7065.9	15251.9	17212.5
52.5°	497.5	593.3	536.4	928.2	2297.0	7771.8	16409.4	18240.8
55°	490.5	572.5	505.8	797.6	2181.6	8541.7	17648.9	19456.7
57.5°	483.6	507.2	489.1	683.7	2003.8	9083.6	18502.1	20405.8
60°	541.9	443.3	475.2	628.1	1766.1	9232.3	18468.7	20783.7
62.5°	501.6	415.5	457.2	615.6	1599.4	8815.4	17615.5	20579.5
65°	393.2	397.4	439.1	651.7	1554.9	7710.7	16103.7	19636.0
67.5°	359.9	379.4	421.0	697.6	1559.1	6173.8	13844.2	17580.8
70°	339.1	359.9	400.2	721.2	1570.2	4602.2	10945.6	14319.5
72.5°	315.4	333.5	376.6	725.4	1498.0	3343.3	8436.1	10528.7
75°	287.6	304.3	343.2	632.3	1240.9	2319.2	6453.1	7203.5
77.5°	255.7	268.2	301.5	487.7	921.3	1484.1	4844.0	5262.3
80°	218.2	225.1	252.9	357.1	630.9	928.2	3832.4	4222.9
82.5°	175.1	177.9	195.9	268.2	409.9	596.1	2566.5	2929.2
85°	123.7	123.7	134.8	194.5	279.3	378.0	1393.7	1545.2
87.5°	58.4	59.8	59.8	107.0	145.9	191.8	321.0	197.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)