

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: P382694

Luminaire Tested: **GLEON-SA0D-735-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53037.7 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

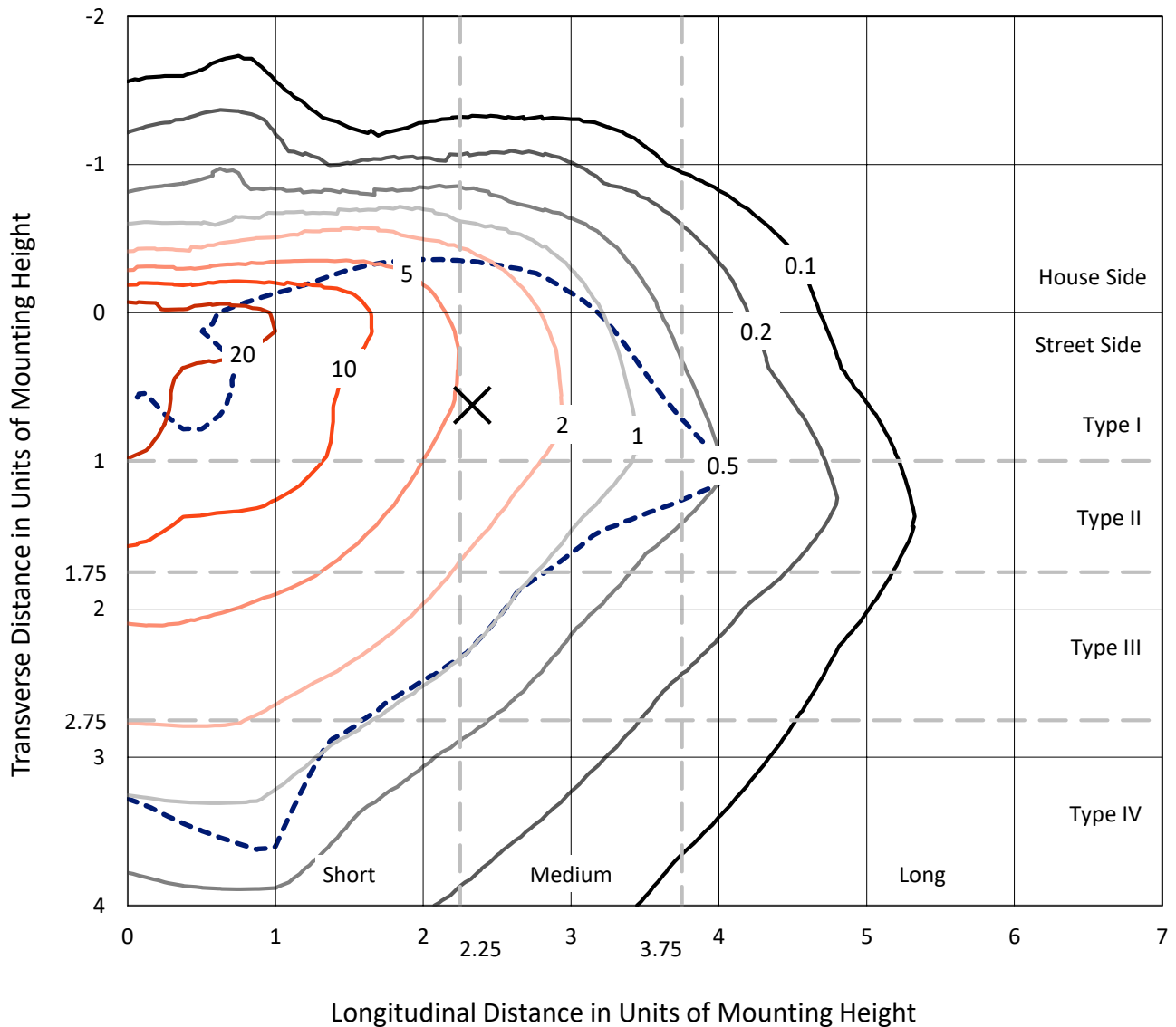
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

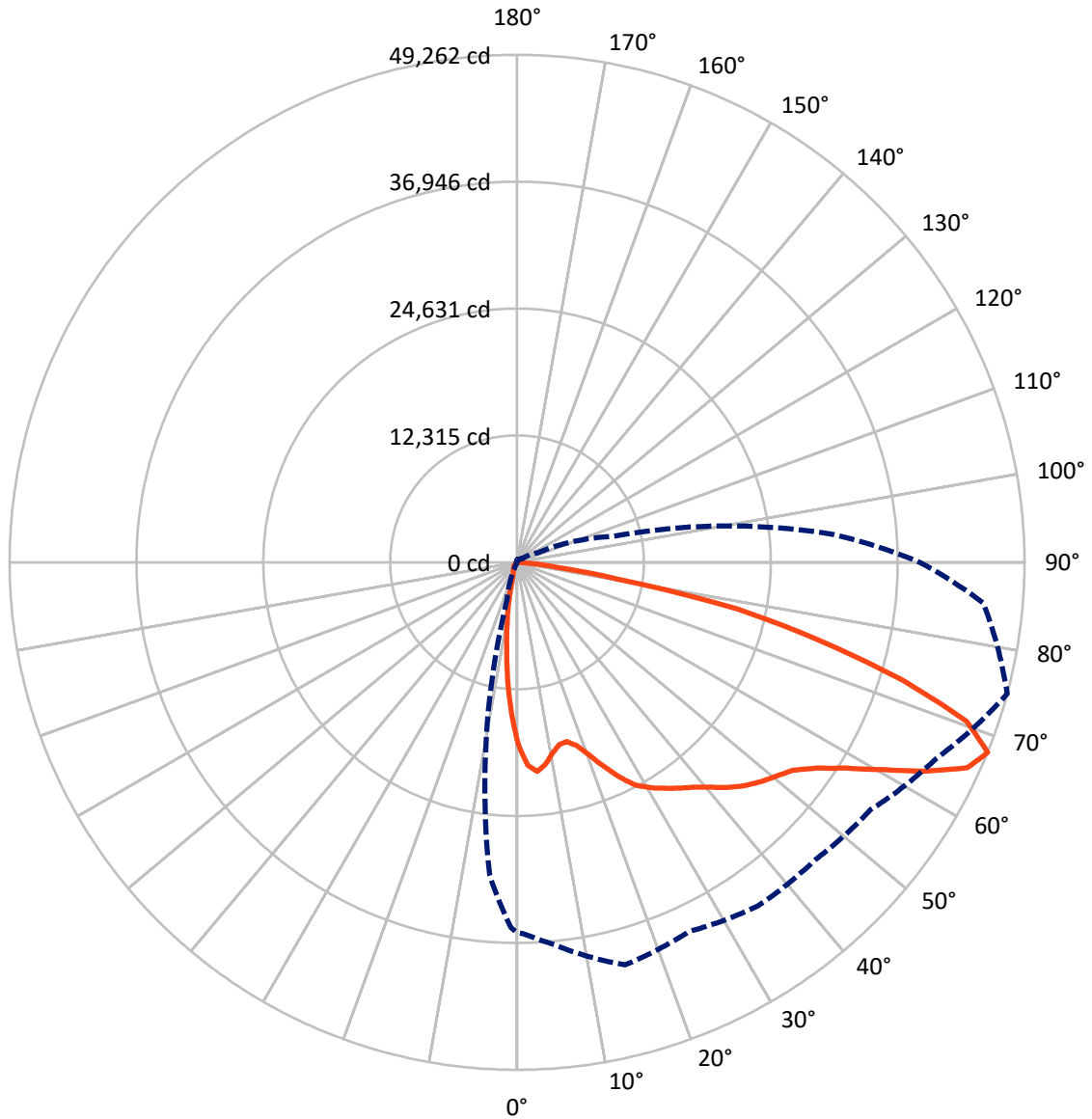
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 36.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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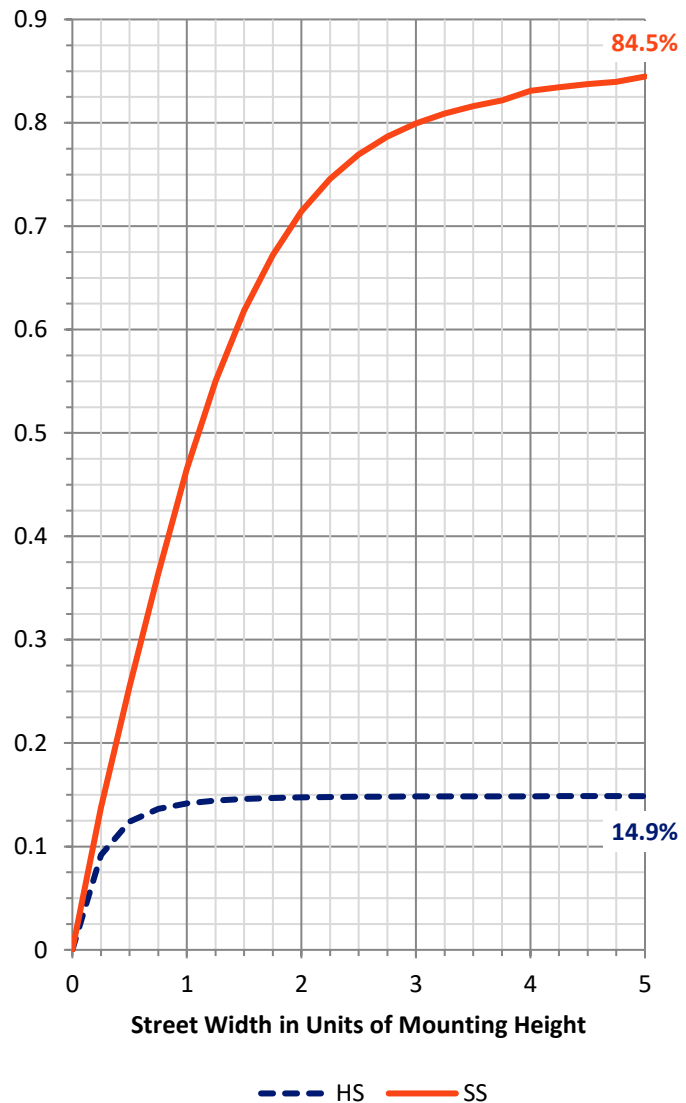
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7958.9	0.0	7958.9
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	45078.8	0.0	45078.8
	% Fixture	85.0	0.0	85.0
Total	Lumens	53037.7	0.0	53037.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1349.7	2.5
10°-20°	2657.6	5.0
20°-30°	3759.7	7.1
30°-40°	5527.8	10.4
40°-50°	7945.3	15.0
50°-60°	11184.9	21.1
60°-70°	13063.0	24.6
70°-80°	6664.3	12.6
80°-90°	885.3	1.7
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°	53037.7	100.0
0°-180°	53037.7	100.0

Coefficient of Utilization

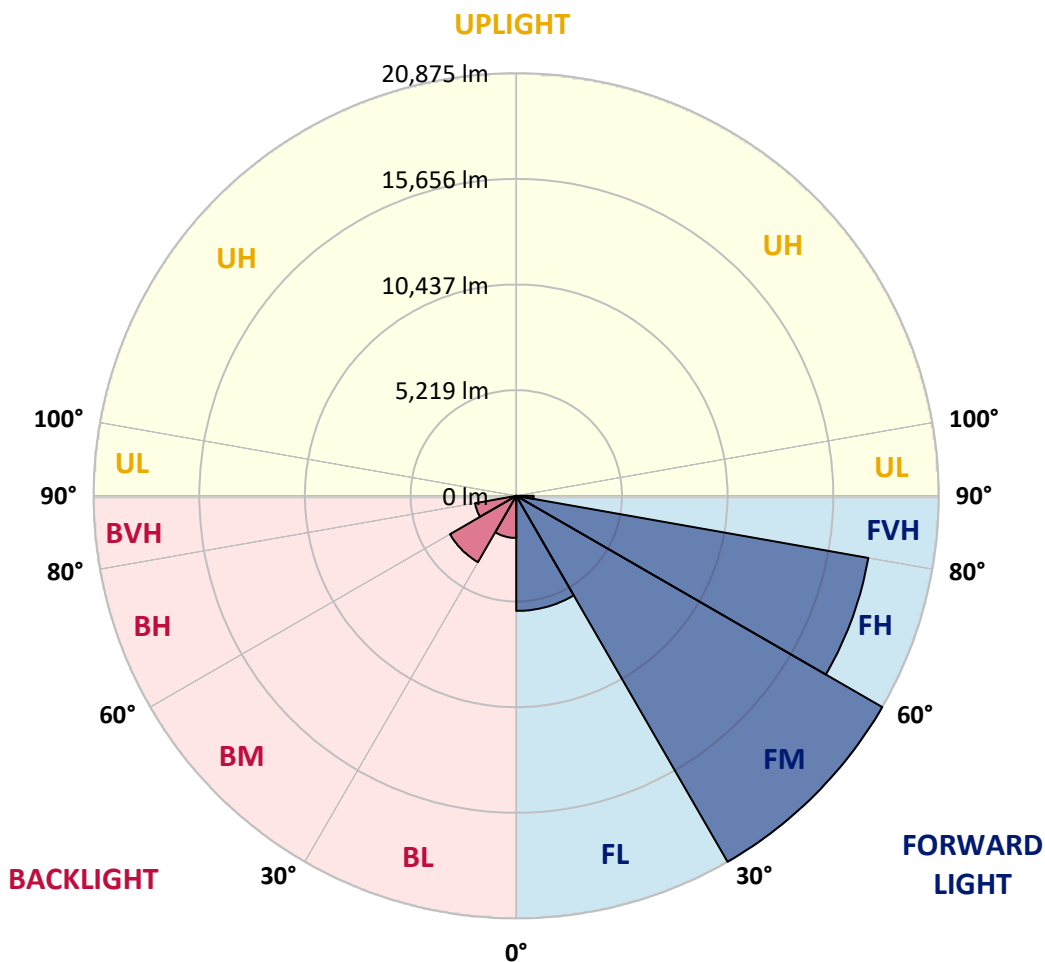


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5685.6	10.7			
FM (30°-60°)	20874.7	39.4			
FH (60°-80°)	17660.0	33.3			G5
FVH (80°-90°)	858.5	1.6			G5
BL (0°-30°)	2081.3	3.9	B3/2500		
BM (30°-60°)	3783.4	7.1	B3/5000		
BH (60°-80°)	2067.3	3.9	B3/2500		G3/2500
BVH (80°-90°)	26.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2
2.5°	19288.2	19318.2	19474.1	19835.8	20230.3	20260.5	20526.7	20253.0	20160.0	19717.8	19260.5
5°	19433.9	19549.5	20084.6	21147.3	22069.4	22365.9	22577.0	22039.3	21473.9	20393.6	19240.4
7.5°	18260.6	18454.1	19295.7	21290.6	22938.7	23667.4	23805.5	22963.9	21579.5	19800.7	18067.1
10°	16758.1	16979.2	17994.2	20446.4	22710.1	23958.8	24149.7	23046.8	21056.9	18840.9	16798.3
12.5°	15542.0	15800.8	16838.5	19496.6	21923.7	23305.6	23682.5	22767.9	20604.7	18160.1	15931.5
15°	14981.8	15278.2	16368.7	18883.7	21051.9	22139.8	22451.3	22056.9	20353.4	18052.0	15730.5
17.5°	15303.4	15624.9	16750.5	18936.4	20232.8	20697.6	20948.9	21109.7	20353.4	18702.8	16318.4
20°	16622.4	16969.2	18160.1	19471.6	19554.5	19381.1	19650.0	20215.2	20589.6	19938.8	17730.4
22.5°	18446.5	18853.5	20197.6	20388.6	19222.9	18567.0	18602.3	19489.1	21019.3	21506.6	19690.1
25°	20670.0	21167.5	22534.2	21755.4	19361.0	18082.2	18069.6	18891.1	21438.8	23076.9	21873.5
27.5°	22878.4	23426.2	24627.1	23423.7	19931.3	17994.2	17969.1	18710.3	21848.3	24473.9	24257.8
30°	24730.2	25262.7	26297.9	24632.2	20546.9	18200.2	18079.7	18903.7	22092.0	25380.9	25996.4
32.5°	26237.6	26664.7	27501.3	25463.8	21205.2	18599.7	18338.4	19421.3	22506.6	26147.1	27594.3
35°	27895.8	28345.6	28679.7	26255.2	21943.8	19175.1	18800.7	20242.9	23144.8	26926.0	29345.5
37.5°	29787.7	30235.0	30194.7	26978.7	22881.0	20127.3	19888.6	21544.4	24137.1	27697.3	31300.2
40°	31639.4	32096.7	31770.1	27770.2	23981.4	21697.6	21521.7	23499.0	25466.3	28684.8	33591.6
42.5°	33373.0	33867.9	33169.4	28519.0	25292.9	23677.4	23978.9	26016.5	27129.6	29900.7	35566.4
45°	34769.9	35274.9	34342.8	29247.5	26674.8	26079.3	26986.3	28805.3	29129.4	30928.4	36900.5
47.5°	35784.9	36262.4	35156.8	29976.2	28443.5	29016.4	30596.7	31729.8	30935.9	31820.3	37847.7
50°	36433.2	36805.0	35395.5	30888.2	30765.0	32443.4	34357.9	34910.6	32636.9	32624.3	38998.4
52.5°	36845.2	37013.6	35571.4	31840.4	33187.0	36174.4	38041.1	38214.5	34388.0	33508.7	40548.6
55°	38264.7	38400.4	36817.6	32993.6	35189.5	39443.1	41372.6	41211.9	36370.3	35239.7	42377.6
57.5°	40686.7	40829.9	39392.8	34651.8	36810.0	41463.1	43787.1	44076.1	38694.3	37671.8	44337.4
60°	41902.8	42169.1	41656.6	36752.3	38380.3	42754.5	45432.8	46354.8	41598.7	40877.7	46236.8
62.5°	40799.8	41186.7	41930.4	39081.3	39940.6	43465.5	45945.3	47171.4	44573.5	44613.7	47407.6
65°	38598.9	38907.9	40169.2	40357.6	40845.0	43377.6	44679.1	46030.7	46395.1	48045.8	47344.8
67.5°	35940.7	36056.3	37126.6	40458.1	39533.5	40734.5	40875.2	41875.1	44955.4	49261.7	45442.8
70°	32114.3	32177.1	33111.7	37093.9	33973.4	34237.3	34028.7	34232.2	38649.2	46299.6	40641.6
72.5°	25845.7	26004.0	27333.0	30805.3	24750.2	23988.9	25627.1	25536.6	29765.1	39116.4	30184.7
75°	19029.4	19303.2	21310.6	24813.1	17371.1	15712.9	16908.8	17227.9	21159.9	30257.5	18876.1
77.5°	13323.6	13527.1	15471.7	18240.4	12572.4	11235.7	10803.5	11182.9	13966.8	21888.6	9509.6
80°	7675.6	7750.9	8992.0	10532.3	8472.1	9693.0	8781.0	9042.3	8369.0	9738.3	4090.2
82.5°	5022.4	5034.9	5519.9	6268.6	5276.2	6130.4	4537.5	5801.3	5148.0	3911.9	1331.6
85°	2713.4	2728.5	3200.9	4449.5	2987.3	1688.3	992.4	2037.6	3183.3	897.0	364.3
87.5°	299.0	273.9	964.8	1618.0	829.1	153.2	52.7	228.6	510.0	57.8	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2
2.5°	19026.9	18818.3	18298.2	17748.0	17305.8	16891.3	16474.2	15964.1	15569.7	15489.3	15358.6
5°	18619.9	17959.0	16868.7	15773.2	14891.3	13778.3	13072.3	12522.0	11984.5	11951.8	11843.7
7.5°	17197.8	16328.4	14793.3	13278.4	12037.2	10976.9	9906.6	9190.6	8627.8	8429.3	8311.2
10°	15831.0	14853.6	12936.7	11208.1	10100.1	9162.9	8409.2	7660.5	6982.1	6514.8	6303.8
12.5°	14876.3	13795.9	11682.9	10193.1	9399.1	8509.7	7590.2	6655.5	5874.2	5311.3	4967.1
15°	14506.9	13353.7	11263.3	9791.0	8811.2	7685.6	6509.7	5442.0	4575.2	4065.2	3756.1
17.5°	14946.6	13605.0	11230.6	9301.1	7931.8	6532.4	5233.4	3972.2	3155.6	2768.7	2570.2
20°	16062.1	14404.0	11218.2	8700.7	6886.7	5165.6	3545.1	2613.0	2118.0	1901.9	1809.0
22.5°	17640.0	15424.0	11318.6	8107.7	5798.8	3690.8	2447.2	1919.5	1665.8	1550.2	1497.5
25°	19670.0	16856.1	11602.5	7570.0	4776.1	2753.7	1907.0	1607.9	1429.6	1339.1	1301.5
27.5°	21833.2	18504.3	12044.7	7102.7	3944.5	2195.8	1633.1	1376.8	1248.6	1185.9	1150.7
30°	23617.1	20413.7	12492.0	6582.6	3341.6	1914.5	1494.9	1256.2	1108.0	1067.8	1035.1
32.5°	25177.3	21858.4	12808.5	6112.8	2947.1	1700.9	1351.7	1123.1	1022.6	944.7	909.5
35°	26792.9	23061.9	12798.4	5783.7	2675.8	1540.1	1231.1	1005.0	884.4	794.0	766.3
37.5°	28541.5	24421.1	12579.9	5502.3	2557.7	1412.0	1163.2	942.2	821.5	731.2	696.0
40°	30589.1	25848.2	12356.2	5238.5	2525.1	1309.0	1115.5	892.0	763.8	675.8	640.7
42.5°	32584.0	27134.6	12160.3	5042.5	2384.3	1306.5	1072.9	854.2	718.6	633.2	592.9
45°	34179.5	28333.0	12122.6	4924.4	2236.1	1351.7	1050.2	829.1	683.4	598.0	560.2
47.5°	35506.0	29634.5	12363.8	4841.5	2095.4	1233.6	1105.5	811.6	650.7	567.8	525.1
50°	37083.9	31232.4	12931.7	4705.8	1947.1	1110.5	1266.3	816.6	623.1	537.7	492.4
52.5°	39284.8	33443.3	13765.8	4477.2	1743.7	997.4	1246.2	821.5	592.9	505.0	459.8
55°	41752.1	36204.5	14662.7	4097.8	1459.7	849.2	1067.8	786.4	535.2	469.9	427.1
57.5°	44344.9	38709.4	15195.3	3645.6	1160.8	733.6	854.2	716.1	472.4	422.1	394.4
60°	44751.9	39661.7	14951.6	3090.3	922.0	638.2	633.2	728.7	422.1	371.9	351.8
62.5°	43739.4	38465.7	13773.3	2595.4	771.3	560.2	520.1	635.7	381.9	331.6	311.5
65°	41792.2	35232.2	11863.8	2339.1	716.1	479.8	432.1	447.2	334.1	289.0	271.4
67.5°	39083.8	30915.8	9740.8	2193.4	708.5	412.0	369.4	339.2	289.0	251.2	236.1
70°	33546.3	25755.2	7771.1	2112.9	688.4	346.7	311.5	276.4	241.2	213.6	201.0
72.5°	24689.9	18250.5	6045.0	2025.0	693.4	276.4	271.4	228.6	193.5	165.8	160.8
75°	14265.7	10426.7	3964.7	1640.6	660.7	213.6	226.1	160.8	135.6	115.6	115.6
77.5°	7602.7	6359.0	1509.9	683.4	241.2	135.6	128.2	95.5	85.4	70.3	67.8
80°	3313.9	2798.8	454.8	191.0	133.1	72.8	47.7	42.8	37.7	30.2	27.7
82.5°	1173.3	1012.5	148.2	93.0	57.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	266.3	191.0	0.0	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2
2.5°	15092.4	15037.0	14710.4	14723.0	14780.8	14863.7	14667.8	14758.1	15001.9	15235.6	15323.5
5°	11670.3	11682.9	11484.5	11607.5	11718.1	11793.5	11476.9	11482.0	11675.4	11939.2	12077.4
7.5°	8223.2	8203.2	8213.3	8507.2	8715.7	8564.9	8683.0	8273.5	8298.7	8487.1	8346.4
10°	6112.8	5836.4	5680.7	5901.7	6130.4	6047.5	5844.0	5710.9	5803.8	6012.3	5997.2
12.5°	4803.8	4406.9	4173.1	4014.9	4203.3	4047.6	4042.5	3926.9	3801.4	3824.0	4158.1
15°	3612.9	3323.9	3047.7	2793.9	2788.9	2736.0	2467.2	2165.8	2140.6	2155.7	2329.1
17.5°	2484.8	2386.8	2273.8	2055.2	1997.4	1776.3	1515.0	1394.4	1334.1	1361.7	1419.6
20°	1746.2	1708.5	1721.0	1602.9	1520.0	1309.0	1155.8	1108.0	1097.9	1125.6	1153.3
22.5°	1447.2	1379.3	1371.8	1319.1	1236.2	1082.8	999.9	972.3	959.8	984.9	1005.0
25°	1266.3	1198.4	1170.8	1138.2	1050.2	944.7	894.5	869.3	856.7	871.8	884.4
27.5°	1115.5	1052.7	1027.6	1005.0	919.5	844.2	804.0	781.4	771.3	776.4	788.9
30°	1002.4	947.2	914.5	886.9	814.1	761.3	726.1	703.5	693.4	693.4	706.0
32.5°	884.4	854.2	824.0	788.9	721.1	685.9	650.7	625.6	615.6	618.1	628.1
35°	736.1	726.1	733.6	701.0	643.2	613.1	577.8	550.3	542.7	545.2	555.3
37.5°	653.2	608.0	635.7	618.1	585.4	545.2	500.0	474.8	462.3	469.9	474.8
40°	600.5	545.2	525.1	542.7	537.7	472.4	432.1	407.0	396.9	399.4	404.5
42.5°	555.3	489.9	444.7	442.2	472.4	412.0	369.4	346.7	334.1	334.1	339.2
45°	512.5	442.2	387.0	344.2	396.9	349.2	309.0	289.0	273.9	273.9	276.4
47.5°	479.8	402.0	336.7	281.4	299.0	286.5	253.8	233.6	218.5	218.5	221.1
50°	449.8	361.8	291.5	236.1	223.6	236.1	206.1	183.4	173.4	170.8	175.9
52.5°	417.1	321.6	248.7	201.0	175.9	178.4	160.8	145.7	133.1	133.1	138.1
55°	384.4	289.0	216.0	170.8	145.7	133.1	128.2	118.1	108.1	108.1	113.1
57.5°	351.8	253.8	183.4	140.7	115.6	105.5	105.5	98.0	90.5	90.5	95.5
60°	321.6	218.5	150.7	115.6	90.5	87.9	90.5	82.9	77.9	77.9	82.9
62.5°	286.5	185.9	123.2	95.5	72.8	70.3	77.9	72.8	67.8	67.8	72.8
65°	243.7	158.3	98.0	72.8	55.2	55.2	65.3	60.3	55.2	55.2	60.3
67.5°	206.1	133.1	75.4	52.7	40.2	42.8	55.2	50.2	47.7	47.7	52.7
70°	170.8	103.0	52.7	32.7	22.6	32.7	42.8	42.8	42.8	42.8	47.7
72.5°	128.2	70.3	30.2	12.6	10.1	22.6	35.2	40.2	37.7	37.7	45.2
75°	82.9	40.2	10.1	0.0	0.0	12.6	27.7	32.7	32.7	30.2	37.7
77.5°	47.7	12.6	0.0	0.0	0.0	0.0	17.6	15.1	12.6	10.1	17.6
80°	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2	17793.2
2.5°	15677.8	15974.2	16391.2	16833.4	17514.3	18054.5	18584.7	19039.4	19215.3	19288.2
5°	12409.1	12843.7	13454.2	14238.1	15466.7	16572.1	17692.7	18820.8	19310.8	19433.9
7.5°	8904.2	9459.4	10235.8	11218.2	12657.8	14089.8	15655.1	17310.9	18069.6	18260.6
10°	6590.1	7268.6	8157.9	9193.1	10567.4	12039.7	13745.6	15637.5	16504.3	16758.1
12.5°	4675.7	5592.7	6783.6	8042.4	9233.3	10547.3	12273.3	14358.7	15268.3	15542.0
15°	2746.1	3633.0	5042.5	6728.4	8253.4	9585.1	11338.7	13703.0	14705.4	14981.8
17.5°	1575.3	2017.5	3082.8	4962.1	7032.3	8876.5	11044.8	13866.3	15047.1	15303.4
20°	1203.5	1344.1	1776.3	3195.9	5605.3	8180.6	11044.8	14790.8	16245.5	16622.4
22.5°	1052.7	1155.8	1331.6	1907.0	4125.5	7434.4	11172.9	16127.5	18029.4	18446.5
25°	934.6	1027.6	1178.3	1434.6	2813.9	6547.5	11476.9	17768.1	20129.8	20670.0
27.5°	836.6	924.6	1060.3	1256.2	1924.6	5477.1	11886.5	19692.6	22446.3	22878.4
30°	748.7	831.6	954.7	1092.9	1484.9	4263.6	12235.7	21506.6	24265.3	24730.2
32.5°	665.8	741.1	851.7	954.7	1216.0	3153.1	12273.3	22943.7	25775.3	26237.6
35°	587.9	655.7	756.2	836.6	1007.5	2489.8	11687.9	24190.0	27285.3	27895.8
37.5°	512.5	577.8	665.8	726.1	886.9	2030.0	10793.6	25579.4	29222.4	29787.7
40°	442.2	500.0	590.4	630.7	839.1	1560.2	9821.2	27036.6	31121.8	31639.4
42.5°	376.9	432.1	520.1	598.0	736.1	1165.7	8771.0	28403.4	32830.3	33373.0
45°	314.0	371.9	459.8	633.2	610.5	871.8	7647.9	29310.3	34179.5	34769.9
47.5°	253.8	319.1	439.7	603.0	487.4	640.7	6758.5	30169.6	35202.1	35784.9
50°	203.5	268.8	494.9	537.7	399.4	489.9	6386.7	30938.4	35872.9	36433.2
52.5°	165.8	226.1	467.4	412.0	334.1	404.5	6587.6	32184.6	36493.5	36845.2
55°	138.1	178.4	281.4	286.5	283.9	344.2	6836.4	33973.4	38098.9	38264.7
57.5°	120.6	143.2	196.0	221.1	238.7	306.5	6841.4	36541.2	40583.7	40686.7
60°	103.0	125.7	163.3	178.4	206.1	273.9	6592.7	37438.2	41561.1	41902.8
62.5°	90.5	110.6	135.6	148.2	173.4	246.2	6009.8	36139.2	40219.5	40799.8
65°	80.4	100.5	113.1	125.7	153.2	221.1	5050.0	33541.3	37993.4	38598.9
67.5°	70.3	87.9	100.5	113.1	138.1	196.0	3718.5	30523.8	35438.2	35940.7
70°	62.8	77.9	90.5	100.5	120.6	165.8	2256.2	25900.9	31905.7	32114.3
72.5°	60.3	70.3	82.9	90.5	105.5	145.7	1143.2	19034.4	25506.5	25845.7
75°	52.7	62.8	75.4	80.4	93.0	125.7	464.8	12502.0	18484.1	19029.4
77.5°	42.8	57.8	67.8	72.8	80.4	103.0	236.1	7989.6	12971.8	13323.6
80°	15.1	42.8	57.8	60.3	67.8	75.4	155.8	4374.2	7524.9	7675.6
82.5°	0.0	27.7	45.2	42.8	47.7	57.8	100.5	2080.3	4967.1	5022.4
85°	0.0	12.6	35.2	27.7	20.1	40.2	35.2	454.8	2605.4	2713.4
87.5°	0.0	0.0	2.5	12.6	10.1	15.1	5.0	2.5	236.1	299.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)