

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: P383704

Luminaire Tested: **GLEON-SA9D-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9D-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47900.2 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

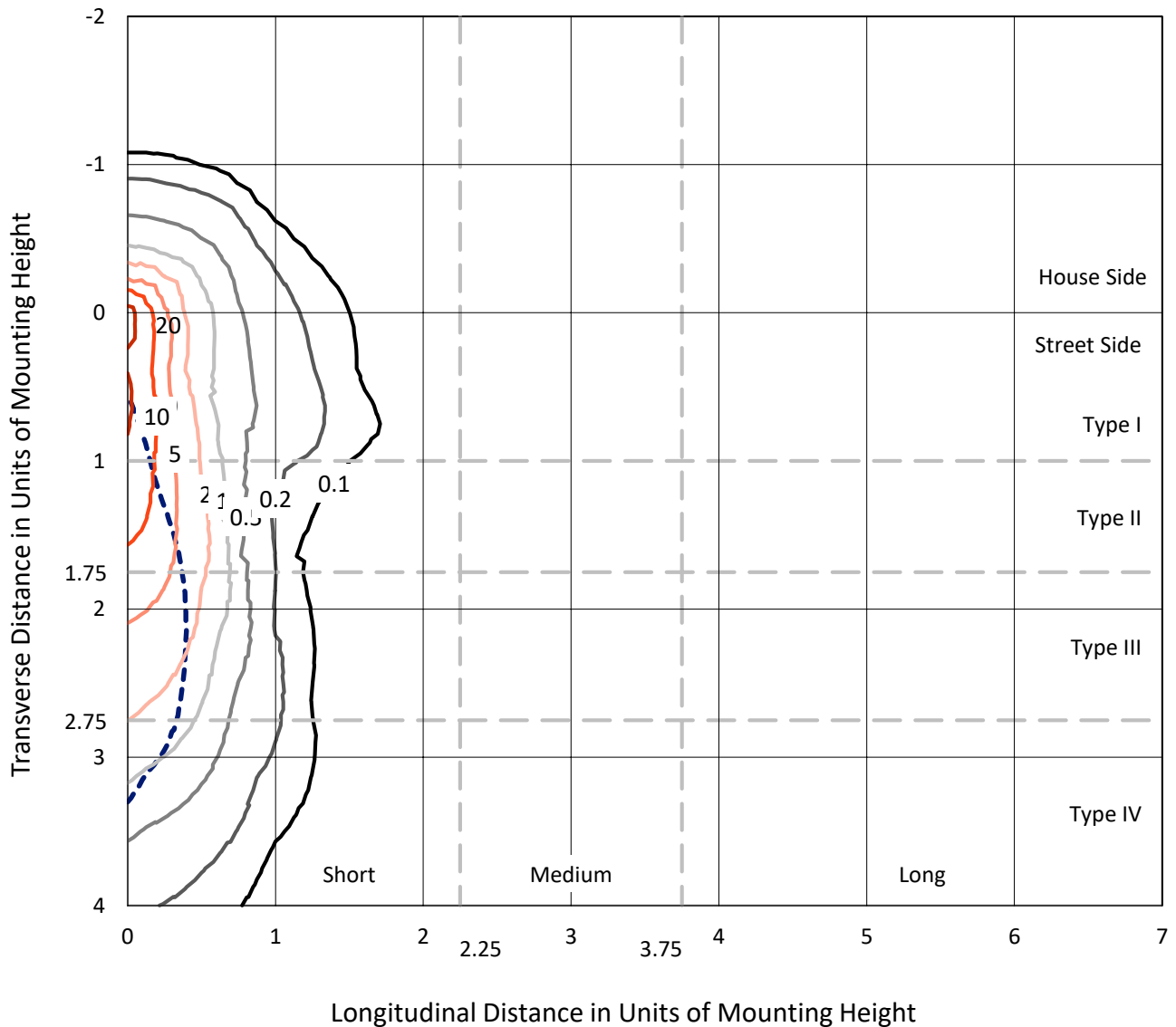
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

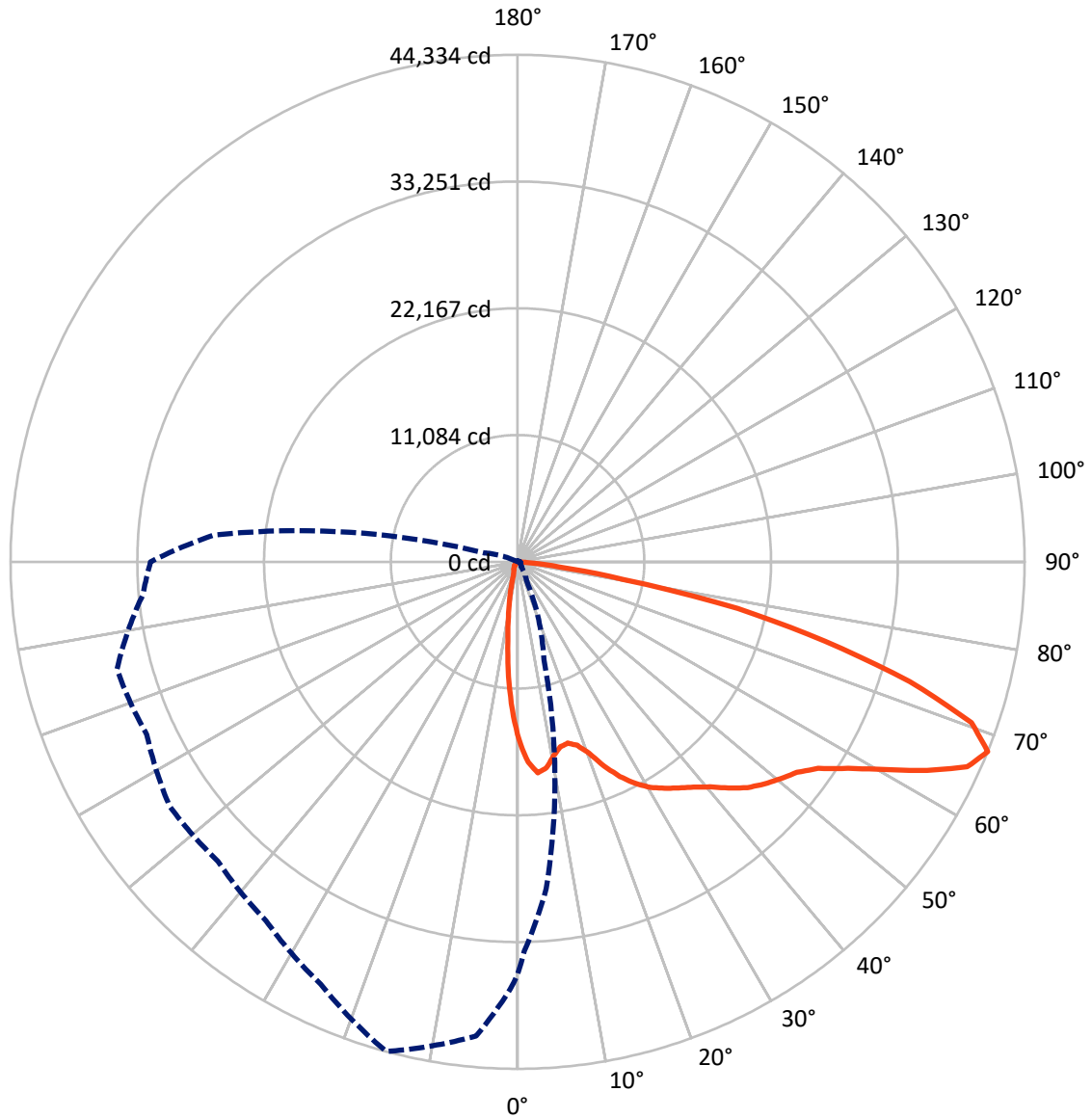
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 345-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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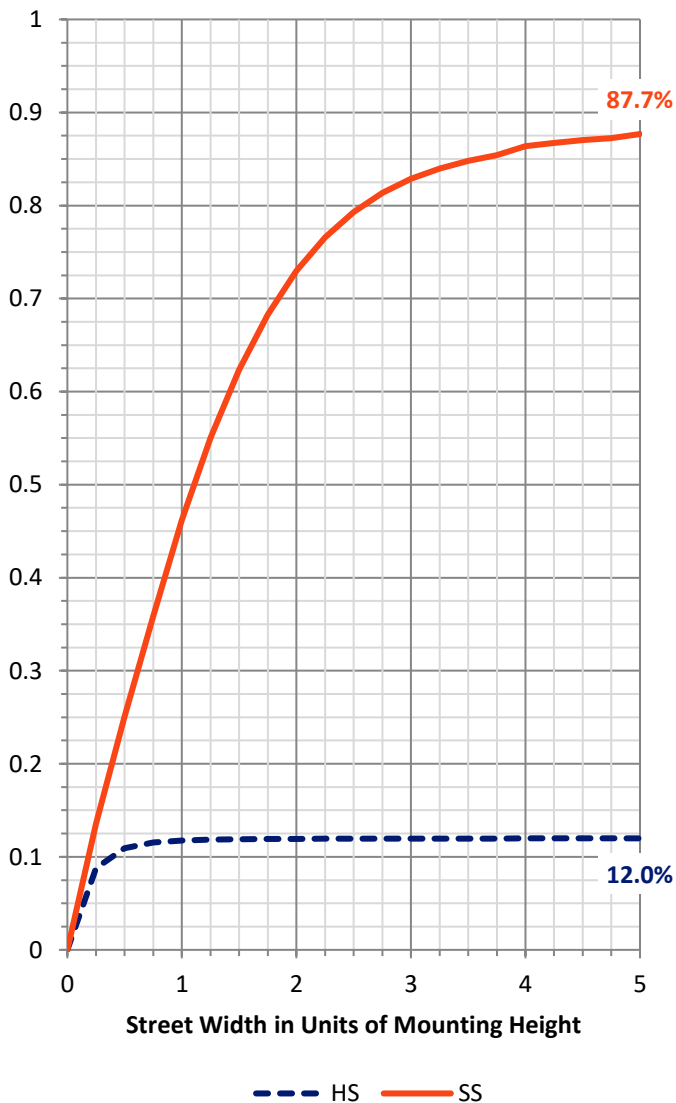
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5797.5	0.0	5797.5
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	42102.7	0.0	42102.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	47900.2	0.0	47900.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1197.5	2.5
10°-20°	2383.7	5.0
20°-30°	3384.8	7.1
30°-40°	4999.6	10.4
40°-50°	7210.5	15.1
50°-60°	10122.1	21.1
60°-70°	11799.4	24.6
70°-80°	6032.1	12.6
80°-90°	770.4	1.6
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°	47900.2	100.0
0°-180°	47900.2	100.0

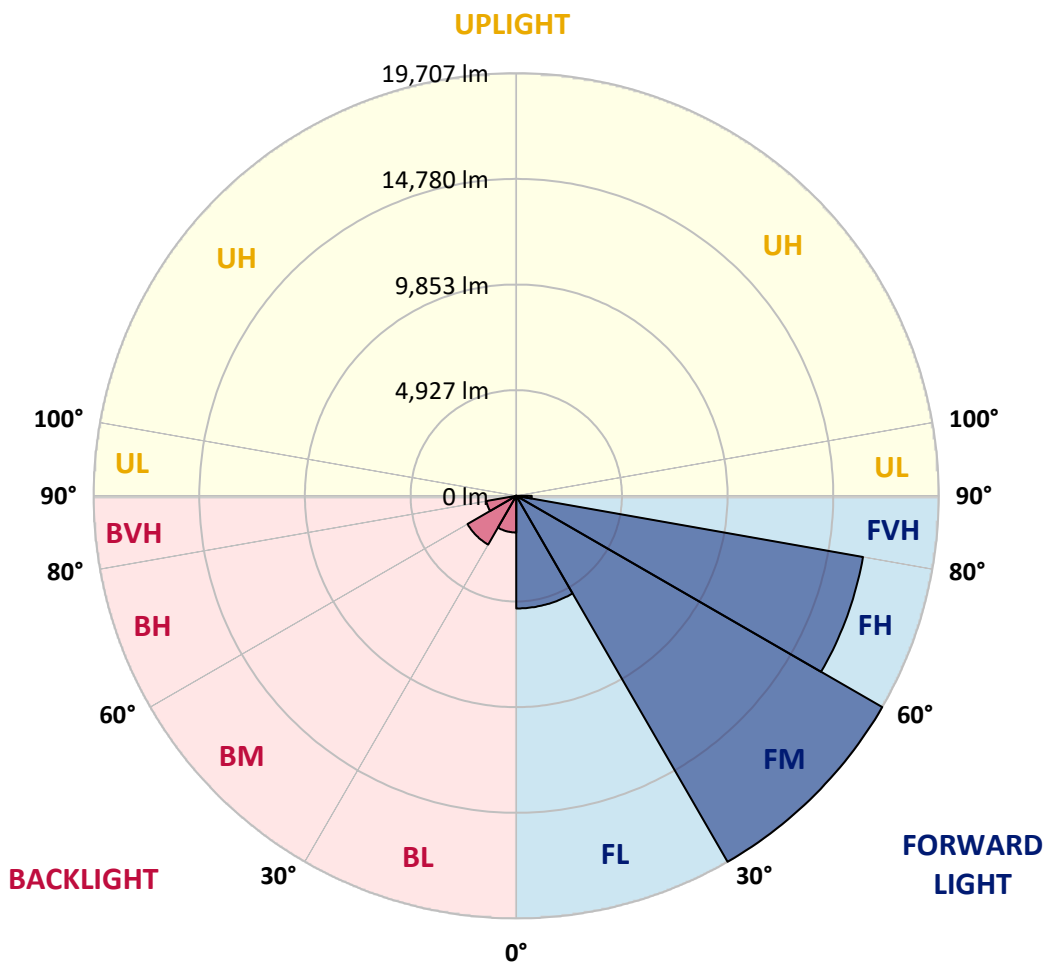


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5253.7	11.0			
FM (30°-60°)	19706.9	41.1			
FH (60°-80°)	16418.5	34.3			G5
FVH (80°-90°)	723.6	1.5			G4/750
BL (0°-30°)	1712.4	3.6	B3/2500		
BM (30°-60°)	2625.3	5.5	B3/5000		
BH (60°-80°)	1413.0	2.9	B3/2500		G3/2500
BVH (80°-90°)	46.8	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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4
2.5°	17085.2	16953.6	16808.4	16334.1	15893.9	15390.1	14979.4	14693.4	14334.8	13869.7	13751.7
5°	16962.6	16822.0	16365.9	15310.6	14387.1	13488.4	12621.6	12113.3	11482.4	10842.5	10683.6
7.5°	15730.5	15582.9	14924.9	13479.4	12235.8	10937.8	9812.3	9115.6	8403.0	7817.5	7506.7
10°	14448.3	14287.2	13547.4	11793.3	10261.6	9088.4	8262.4	7597.4	6923.5	6297.2	5798.0
12.5°	13565.6	13354.6	12551.2	10563.4	9229.0	8432.6	7661.0	6864.5	5952.2	5280.6	4731.4
15°	13195.7	12955.2	12106.5	10089.1	8863.7	7928.8	6923.5	5945.4	4876.7	4107.4	3603.6
17.5°	13481.6	13168.5	12258.5	10057.4	8405.4	7132.3	5861.5	4713.3	3553.7	2775.3	2416.7
20°	14452.9	14042.1	12887.1	10048.2	7849.3	6185.9	4574.8	3276.8	2341.9	1883.5	1695.1
22.5°	15982.4	15440.0	13790.3	10120.9	7275.2	5192.1	3304.0	2226.1	1758.7	1520.4	1409.2
25°	17829.5	17200.9	15090.5	10377.3	6771.4	4225.3	2400.9	1758.7	1484.0	1309.4	1216.3
27.5°	19586.0	19075.4	16733.5	10747.2	6381.1	3444.8	1949.3	1490.9	1268.5	1152.8	1077.9
30°	21340.1	20697.9	18419.6	11187.4	5911.4	2916.0	1713.3	1359.3	1136.9	1014.4	966.7
32.5°	22615.4	22082.1	19740.2	11505.1	5409.9	2571.1	1531.7	1243.5	1062.1	937.2	866.9
35°	24115.3	23511.7	20872.6	11575.5	5087.6	2353.2	1377.5	1118.8	921.3	810.2	735.3
37.5°	25735.6	24984.5	22179.7	11421.1	4835.8	2246.5	1261.7	1062.1	860.0	746.5	667.2
40°	27528.3	26679.6	23434.6	11198.8	4588.4	2210.3	1173.2	1018.9	812.4	696.7	615.0
42.5°	29416.3	28415.6	24521.6	10965.1	4431.8	2085.5	1164.2	975.8	776.1	651.2	569.5
45°	31002.6	29988.2	25638.1	10887.9	4320.7	1949.3	1202.7	946.3	751.1	615.0	535.5
47.5°	32266.6	31306.6	26781.7	11060.4	4257.1	1824.4	1096.1	984.8	737.5	583.2	506.0
50°	33775.6	32688.7	28392.9	11575.5	4164.1	1699.7	991.6	1127.8	737.5	562.7	481.1
52.5°	35668.1	34592.6	30190.2	12374.2	3978.0	1527.2	891.8	1130.1	744.3	535.5	449.3
55°	38048.6	37268.0	32756.7	13250.1	3680.7	1273.1	771.5	971.2	717.1	485.6	419.8
57.5°	40331.4	39693.8	35096.3	13849.2	3283.6	994.0	671.7	782.9	655.8	426.6	374.4
59°	40955.5	40258.9	35954.1	13876.5	2986.4	866.9	621.8	646.8	642.2	399.4	347.2
60°	40955.5	40215.7	36201.4	13731.3	2770.8	796.5	590.0	576.3	669.4	381.2	331.4
62.5°	40213.4	39174.2	35398.1	12748.7	2260.2	678.5	515.1	476.6	601.3	342.6	292.7
65°	38670.4	37156.7	32661.4	10971.9	2015.1	621.8	444.8	390.3	417.5	301.8	256.5
67.5°	36097.0	34045.6	28715.1	8863.7	1917.5	605.9	383.5	331.4	315.4	258.7	224.7
70°	31565.3	29289.3	23924.8	6968.9	1833.6	599.1	322.2	279.1	254.1	217.9	190.6
72.5°	22973.9	20600.3	16985.4	5448.4	1783.6	612.7	258.7	233.7	208.8	170.2	147.5
75°	13141.2	11586.8	9546.8	3599.0	1520.4	585.5	199.7	195.2	149.8	122.5	102.1
77.5°	6789.6	6583.2	5720.8	1382.0	728.5	256.5	131.6	113.5	88.5	74.9	61.3
80°	2929.6	2897.9	2507.5	399.4	192.9	143.0	74.9	47.7	40.8	31.8	25.0
82.5°	1012.1	1012.1	891.8	133.9	86.3	70.3	9.0	0.0	0.0	0.0	0.0
85°	204.2	229.2	161.2	0.0	29.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4
2.5°	13608.7	13334.2	13316.0	13143.5	12927.9	12830.4	12773.7	12873.5	12996.0	13009.6	13193.4
5°	10563.4	10275.2	10395.4	10089.1	10150.3	10089.1	9989.3	10007.4	10061.8	9891.6	10102.7
7.5°	7418.2	7200.3	7338.7	7257.0	7366.0	7409.2	7347.9	7257.0	6989.3	6957.5	7141.3
10°	5591.4	5344.1	5196.6	5042.3	5076.3	5146.7	5124.0	5058.2	4888.0	4897.1	5074.0
12.5°	4493.1	4216.3	3923.6	3544.5	3451.6	3503.7	3451.6	3413.0	3249.6	3263.2	3419.8
15°	3408.4	3181.5	2875.1	2571.1	2405.4	2421.3	2276.1	2174.0	2071.9	1949.3	2044.6
17.5°	2301.0	2162.6	2071.9	1981.0	1783.6	1738.3	1554.5	1357.0	1279.9	1223.1	1264.0
20°	1629.4	1554.5	1518.1	1513.6	1400.1	1343.4	1164.2	1041.6	1003.0	991.6	1016.6
22.5°	1361.5	1307.1	1254.9	1225.4	1168.6	1102.9	966.7	905.5	878.2	864.6	882.7
25°	1184.6	1143.7	1089.3	1039.3	1016.6	946.3	848.7	803.3	785.2	771.5	780.6
27.5°	1052.9	1016.6	953.1	921.3	903.1	841.9	757.9	721.6	705.7	701.2	698.9
30°	948.6	914.5	855.5	819.2	787.4	732.9	683.0	646.8	630.8	626.3	621.8
32.5°	844.2	817.0	778.3	742.1	708.0	658.0	615.0	585.5	560.5	555.9	553.7
35°	712.5	685.3	664.8	662.6	630.8	583.2	551.4	512.8	492.4	485.6	487.9
37.5°	633.1	596.8	551.4	567.3	558.3	524.2	481.1	442.5	422.1	417.5	417.5
40°	583.2	544.6	492.4	465.2	492.4	485.6	417.5	379.0	358.6	356.3	351.8
42.5°	535.5	497.0	437.9	392.6	406.2	426.6	360.8	324.5	304.1	299.6	292.7
45°	501.5	460.7	394.9	342.6	315.4	358.6	308.6	263.3	251.9	242.9	238.3
47.5°	469.8	431.1	356.3	297.3	251.9	258.7	247.3	215.6	202.0	192.9	190.6
50°	442.5	401.7	322.2	254.1	208.8	190.6	199.7	170.2	158.8	149.8	145.2
52.5°	410.7	372.2	285.9	220.1	174.8	149.8	152.0	133.9	122.5	115.7	113.5
55°	385.8	347.2	256.5	192.9	154.3	122.5	108.9	104.4	97.5	93.1	90.7
57.5°	351.8	315.4	226.9	163.4	131.6	99.9	83.9	83.9	81.7	77.1	74.9
59°	331.4	299.6	208.8	147.5	120.3	86.3	74.9	77.1	74.9	70.3	68.1
60°	315.4	285.9	195.2	136.2	113.5	79.5	68.1	72.7	70.3	65.8	63.5
62.5°	279.1	258.7	168.0	113.5	99.9	63.5	56.7	61.3	61.3	59.0	56.7
65°	245.1	222.4	143.0	95.3	93.1	54.5	45.4	54.5	56.7	52.2	47.7
67.5°	213.3	190.6	124.8	77.1	86.3	43.1	34.0	45.4	61.3	47.7	43.1
70°	181.6	158.8	97.5	61.3	90.7	29.5	27.2	40.8	72.7	52.2	40.8
72.5°	140.7	122.5	68.1	45.4	97.5	20.4	20.4	34.0	81.7	56.7	38.6
75°	97.5	79.5	40.8	27.2	79.5	13.6	13.6	31.8	77.1	52.2	36.3
77.5°	56.7	43.1	13.6	2.2	40.8	0.0	2.2	22.7	54.5	31.8	15.9
80°	20.4	9.0	0.0	0.0	25.0	0.0	0.0	0.0	4.6	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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4
2.5°	13241.1	13547.4	13822.0	14237.3	14729.7	15297.0	15785.0	16309.2	16801.6	17005.8	17146.5
5°	10145.9	10524.8	10967.3	11577.7	12390.1	13390.9	14328.0	15387.8	16527.0	17096.6	17632.1
7.5°	7173.1	7558.9	8108.0	8757.0	9739.6	10931.0	12156.4	13620.1	15163.2	16064.1	16951.4
10°	5158.0	5632.3	6145.1	7032.4	8030.9	9161.0	10422.7	12056.6	13776.7	14775.1	15843.9
12.5°	3510.5	4050.6	4826.7	5820.7	6993.9	8101.2	9197.3	10756.3	12753.2	13742.6	14888.6
15°	2105.9	2405.4	3226.9	4377.4	5816.1	7195.8	8396.2	9959.7	12088.3	13300.1	14491.4
17.5°	1298.0	1436.4	1883.5	2827.5	4338.8	6083.8	7729.1	9689.7	12183.6	13658.6	14933.9
20°	1034.8	1089.3	1232.3	1670.2	2875.1	4858.5	6977.9	9635.3	12962.0	14777.4	16145.8
22.5°	898.7	950.8	1046.1	1214.1	1808.6	3637.6	6265.4	9685.2	14078.5	16454.4	18051.9
25°	792.0	837.4	928.1	1066.5	1325.2	2561.9	5502.9	9907.6	15533.1	18535.3	20232.7
27.5°	708.0	746.5	830.6	957.6	1136.9	1788.2	4638.4	10177.6	17257.7	20663.9	22338.5
30°	630.8	664.8	739.7	857.8	987.2	1375.2	3689.8	10361.4	18984.6	22338.5	23843.1
32.5°	565.1	590.0	658.0	757.9	857.8	1096.1	2804.8	10331.9	20266.7	23731.8	24925.5
35°	497.0	521.9	580.9	667.2	746.5	905.5	2205.7	9780.5	21383.2	25177.4	26164.5
37.5°	422.1	453.8	510.6	587.7	642.2	796.5	1783.6	9115.6	22515.5	26829.4	27546.5
40°	358.6	390.3	440.2	524.2	558.3	755.7	1370.6	8305.5	23788.6	28676.6	29062.3
42.5°	297.3	326.8	379.0	451.6	526.5	651.2	1014.4	7379.6	25011.7	30256.0	30444.3
45°	240.5	270.1	324.5	397.1	562.7	540.1	785.2	6388.0	25998.8	31569.9	31631.2
47.5°	190.6	217.9	274.6	374.4	524.2	431.1	560.5	5609.6	26827.1	32595.6	32434.4
50°	147.5	170.2	229.2	428.9	458.4	356.3	424.3	5350.9	27569.2	33231.0	32813.4
52.5°	115.7	136.2	188.4	401.7	356.3	295.0	356.3	5593.8	28585.8	33757.4	33026.7
55°	93.1	113.5	147.5	229.2	242.9	249.7	304.1	5820.7	30339.9	34991.9	34286.2
57.5°	77.1	97.5	120.3	161.2	183.8	211.0	270.1	5845.6	32407.2	37043.3	36376.2
59°	70.3	88.5	108.9	143.0	161.2	192.9	254.1	5709.5	33135.6	37789.9	37456.3
60°	65.8	83.9	102.1	131.6	149.8	181.6	245.1	5580.1	33167.4	37762.7	37917.0
62.5°	56.7	74.9	90.7	111.2	127.1	154.3	220.1	5101.2	31824.0	36525.9	37640.1
65°	49.9	65.8	81.7	95.3	108.9	138.4	199.7	4227.6	29529.8	34531.3	35745.3
67.5°	45.4	56.7	74.9	83.9	97.5	122.5	177.0	3013.6	26663.8	32091.8	32879.3
70°	40.8	54.5	68.1	77.1	88.5	106.7	152.0	1731.5	22515.5	28520.0	29080.5
72.5°	38.6	52.2	61.3	72.7	79.5	95.3	138.4	814.6	16486.2	22846.9	24310.5
75°	34.0	47.7	56.7	68.1	74.9	86.3	118.0	390.3	10965.1	16533.8	18197.1
77.5°	20.4	38.6	52.2	61.3	65.8	74.9	97.5	224.7	6998.3	11443.9	13479.4
80°	0.0	13.6	38.6	52.2	56.7	63.5	74.9	177.0	3744.3	6537.7	7847.1
82.5°	0.0	0.0	27.2	40.8	38.6	43.1	56.7	111.2	1688.3	4273.0	4815.4
85°	0.0	0.0	9.0	31.8	27.2	20.4	38.6	38.6	369.9	2162.6	2698.1
87.5°	0.0	0.0	0.0	2.2	13.6	9.0	15.9	4.6	2.2	161.2	653.6
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°	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4	15603.4
2.5°	17638.9	17806.8	18090.5	18224.4	18158.6	17879.5	17545.9	17205.5	17005.8	17085.2
5°	18723.6	19588.2	20087.4	20253.1	19976.3	19349.9	18530.7	17450.6	17067.1	16962.6
7.5°	18723.6	20350.7	21380.9	21562.4	20945.2	19717.5	18181.3	16495.2	15934.7	15730.5
10°	18065.5	20280.4	21716.8	22004.9	21142.7	19306.8	17248.6	15324.2	14659.4	14448.3
12.5°	17323.5	19708.5	21222.1	21619.2	20911.2	18898.3	16601.9	14532.3	13749.5	13565.6
15°	16867.3	19005.0	20257.6	20545.8	20246.3	18660.1	16447.6	14294.0	13372.7	13195.7
17.5°	17030.7	18460.4	18912.0	19079.9	19281.8	18576.1	16867.3	14816.0	13649.6	13481.6
20°	17645.7	17886.3	17652.5	17863.5	18408.2	18657.8	17868.1	16077.7	14677.6	14452.9
22.5°	18689.5	17589.0	16933.2	17017.1	17679.7	18927.8	19397.6	17879.5	16263.7	15982.4
25°	19905.9	17829.5	16533.8	16458.9	17139.6	19284.2	20795.4	19840.1	18140.4	17829.5
27.5°	21435.4	18369.7	16452.1	16377.2	16951.4	19617.7	21957.3	21778.0	20117.0	19586.0
30°	22615.4	18900.6	16694.9	16522.5	17139.6	19849.1	22890.0	23423.2	21691.8	21340.1
32.5°	23461.9	19526.9	17089.8	16840.1	17670.7	20248.6	23609.3	24930.0	23148.7	22615.4
35°	24106.3	20207.7	17727.4	17316.7	18401.4	20854.5	24283.3	26534.4	24698.6	24115.3
37.5°	24710.0	21163.1	18723.6	18233.5	19547.3	21830.3	24995.8	28354.4	26432.3	25735.6
40°	25551.8	22245.5	20259.9	19824.2	21473.9	23160.0	25885.4	30251.4	28404.3	27528.3
42.5°	26393.7	23407.4	21832.5	21950.5	23877.1	24775.7	27033.6	32257.4	30351.3	29416.3
45°	27163.0	24605.5	24072.2	24616.9	26107.7	26548.0	28175.0	33417.0	31905.7	31002.6
47.5°	27848.3	26103.3	26298.4	27748.5	28644.8	28152.4	29028.3	34417.8	33063.0	32266.6
50°	28644.8	28041.2	29232.5	31284.0	31565.3	29604.7	29804.4	35602.4	34415.6	33775.6
52.5°	29516.2	30083.5	32482.1	34290.7	34199.9	31181.8	30585.0	36929.8	36269.5	35668.1
55°	30505.6	31733.3	35343.7	37104.6	37027.4	32942.8	31878.5	38570.5	38593.2	38048.6
57.5°	31973.8	33153.8	37286.1	39380.6	39510.0	34976.0	34070.6	40408.6	40694.6	40331.4
59°	33026.7	34075.1	38055.4	40331.4	40858.0	36548.6	35672.7	41475.2	41286.8	40955.5
60°	33807.4	34660.6	38436.7	40828.4	41640.8	37615.1	36855.0	42101.5	41357.2	40955.5
62.5°	35738.5	35935.9	39124.3	41391.2	42541.7	39984.3	40181.7	43168.0	40869.2	40213.4
65°	36639.4	36741.5	39115.1	40383.6	41670.4	41829.2	43199.8	43199.8	39677.9	38670.4
67.5°	36262.7	35770.2	37174.9	37043.3	38327.7	40733.1	44334.4	41615.9	37399.6	36097.0
70°	33199.2	31304.4	30680.3	30737.1	31719.7	35429.8	42087.9	36954.8	33088.0	31565.3
72.5°	27623.6	23078.3	21537.5	23296.1	23552.6	27228.8	35867.8	27830.2	24401.3	22973.9
75°	22218.2	16268.3	13763.1	15619.3	16054.9	19926.4	27746.1	17332.6	14253.1	13141.2
77.5°	15962.0	11677.6	9875.8	9746.4	10309.3	12637.5	19688.1	8723.0	7275.2	6789.6
80°	9068.0	7685.9	8276.0	7808.5	8092.2	7901.6	9353.9	3826.0	3133.8	2929.6
82.5°	5473.4	4543.1	4919.8	4096.0	5182.9	4513.5	3603.6	1225.4	1064.3	1012.1
85°	3560.5	2482.6	1293.5	866.9	1785.9	2884.3	805.6	333.6	256.5	204.2
87.5°	1227.7	633.1	63.5	27.2	190.6	537.8	29.5	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

(END OF REPORT)