

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: P382668

Luminaire Tested: **GLEON-SA0C-735-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382668
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-SA0C-735-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA 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: 48343.6 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

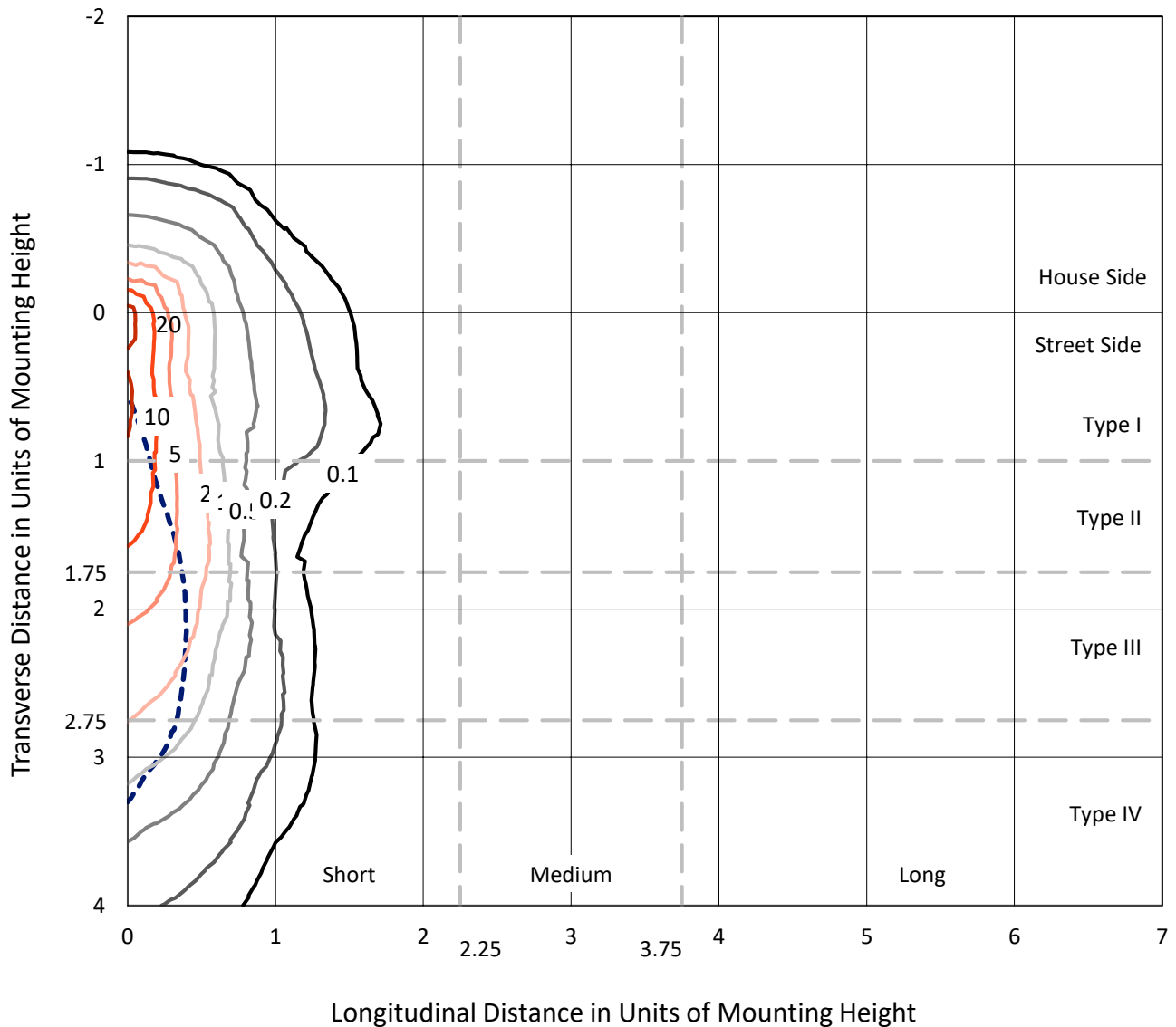
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

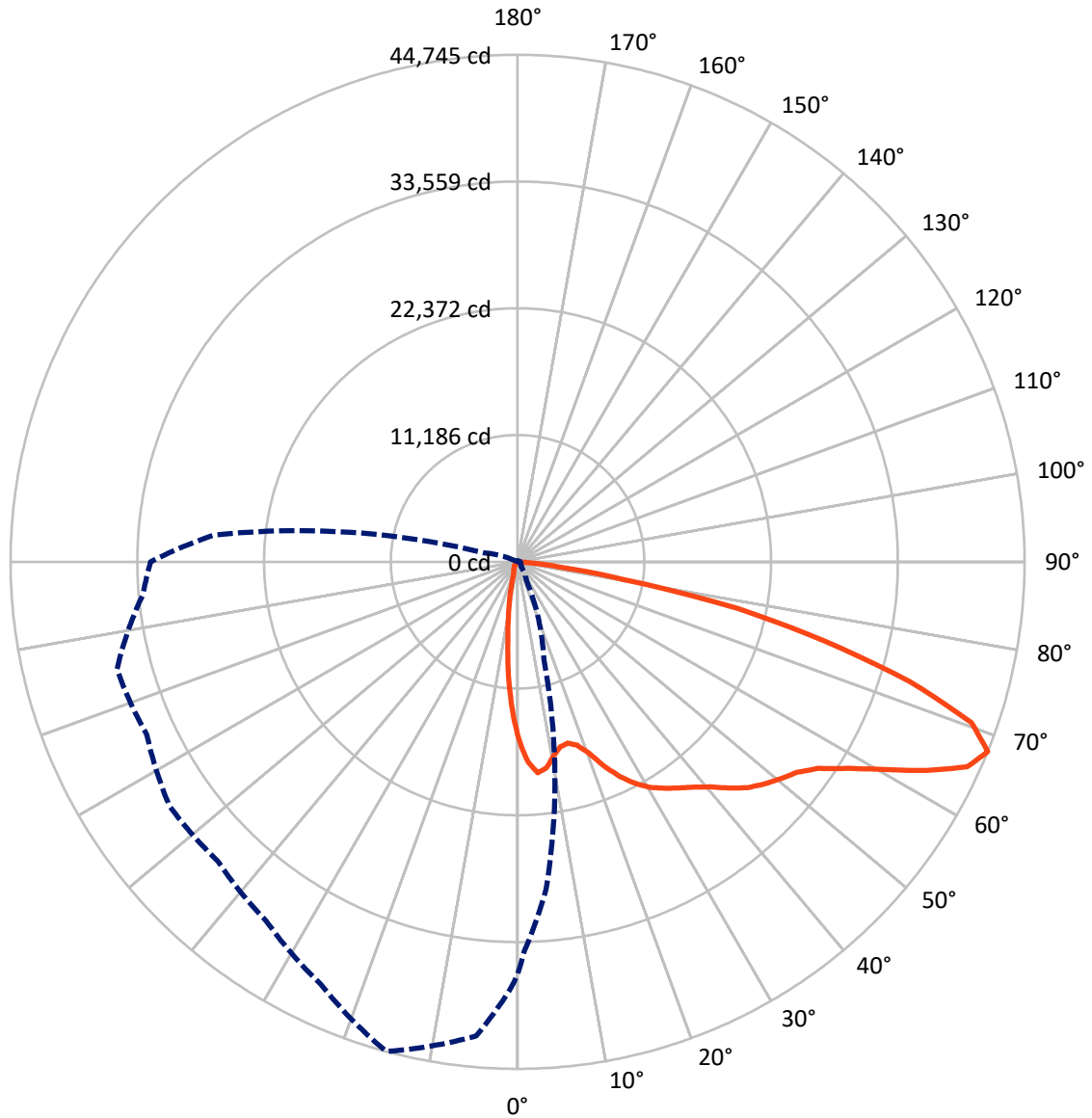
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.2 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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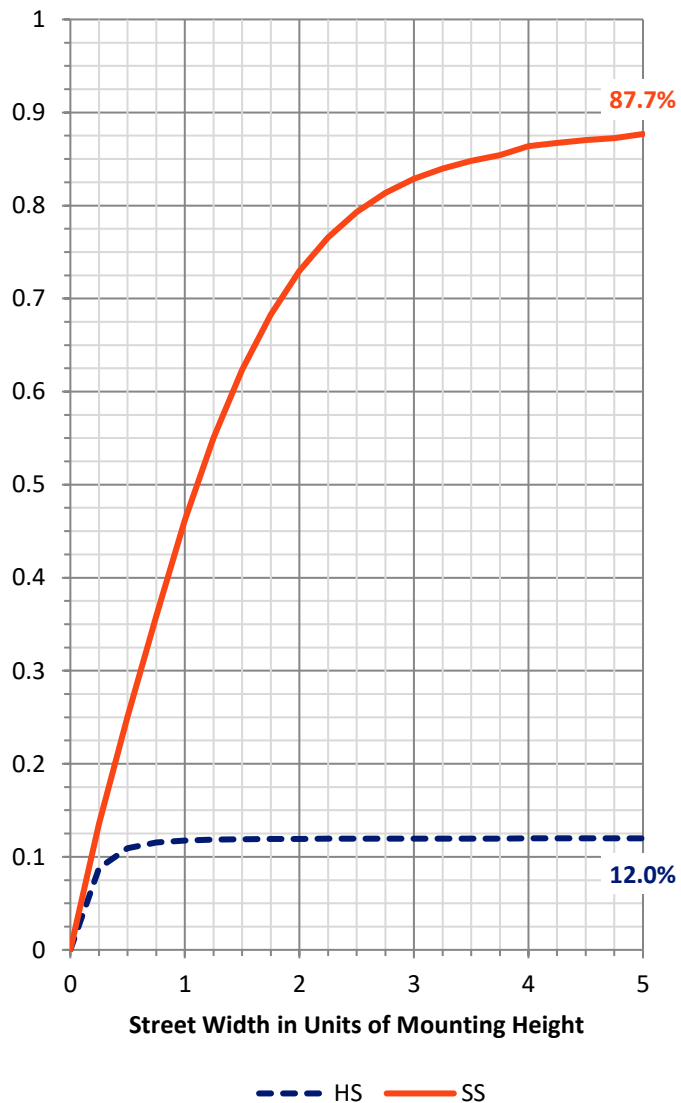
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5851.2	0.0	5851.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	42492.4	0.0	42492.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	48343.6	0.0	48343.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1208.6	2.5
10°-20°	2405.8	5.0
20°-30°	3416.2	7.1
30°-40°	5045.9	10.4
40°-50°	7277.3	15.1
50°-60°	10215.8	21.1
60°-70°	11908.6	24.6
70°-80°	6087.9	12.6
80°-90°	777.5	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°	48343.6	100.0
0°-180°	48343.6	100.0

Coefficient of Utilization

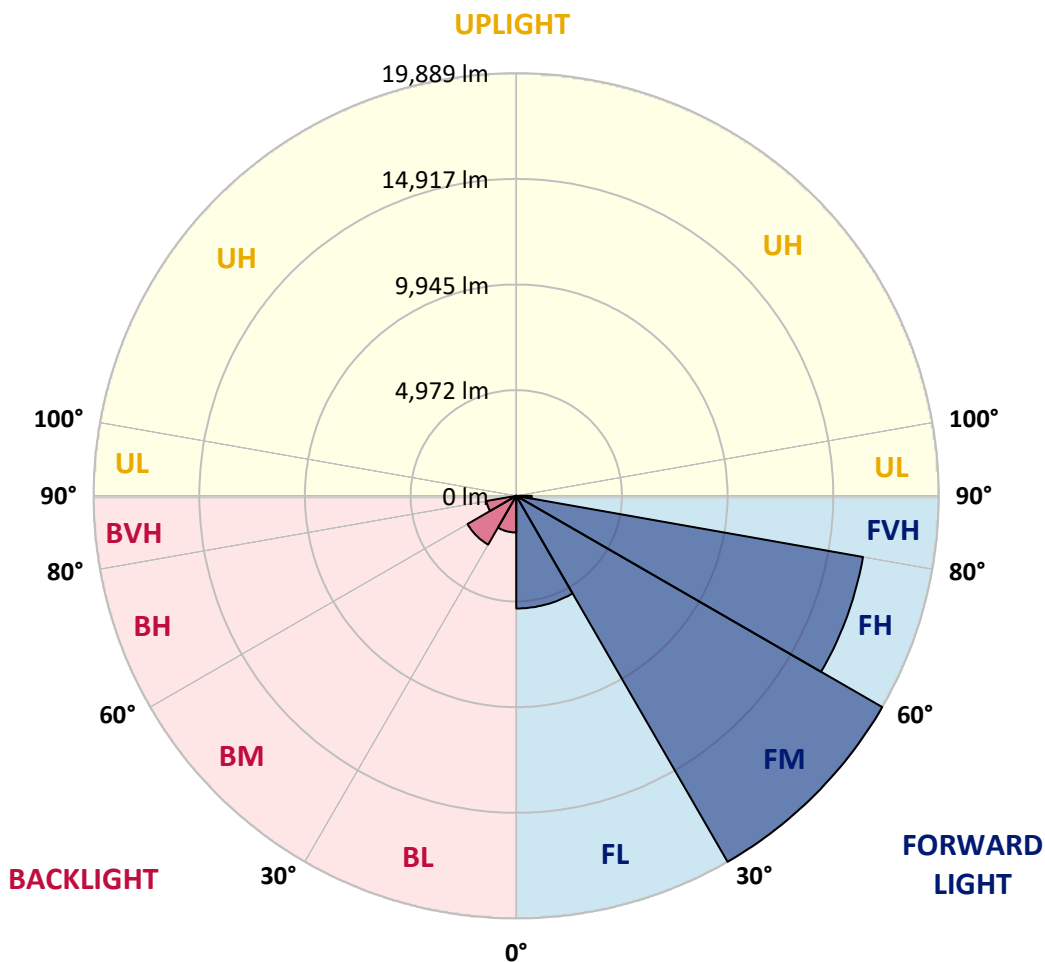


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5302.3	11.0			
FM	(30°-60°)	19889.3	41.1			
FH	(60°-80°)	16570.5	34.3			G5
FVH	(80°-90°)	730.3	1.5			G4/750
BL	(0°-30°)	1728.2	3.6	B3/2500		
BM	(30°-60°)	2649.6	5.5	B3/5000		
BH	(60°-80°)	1426.1	2.9	B3/2500		G3/2500
BVH	(80°-90°)	47.2	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°	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8
2.5°	17243.4	17110.6	16963.9	16485.3	16041.0	15532.5	15118.0	14829.4	14467.6	13998.1	13878.9
5°	17119.7	16977.7	16517.4	15452.4	14520.2	13613.4	12738.4	12225.4	11588.7	10942.9	10782.6
7.5°	15876.1	15727.2	15063.0	13604.1	12349.1	11039.0	9903.1	9200.0	8480.8	7889.9	7576.2
10°	14582.1	14419.5	13672.9	11902.5	10356.6	9172.5	8338.8	7667.8	6987.6	6355.5	5851.6
12.5°	13691.1	13478.2	12667.5	10661.2	9314.5	8510.6	7731.9	6928.0	6007.4	5329.5	4775.2
15°	13317.9	13075.1	12218.6	10182.5	8945.7	8002.2	6987.6	6000.5	4921.7	4145.4	3636.9
17.5°	13606.5	13290.4	12372.0	10150.4	8483.1	7198.3	5915.7	4756.9	3586.6	2801.0	2439.2
20°	14586.6	14172.1	13006.4	10141.3	7922.0	6243.2	4617.1	3307.2	2363.5	1900.9	1710.8
22.5°	16130.3	15582.9	13917.9	10214.6	7342.6	5240.1	3334.7	2246.7	1775.0	1534.4	1422.3
25°	17994.6	17360.1	15230.2	10473.4	6834.1	4264.4	2423.1	1775.0	1497.8	1321.5	1227.6
27.5°	19767.3	19251.9	16888.4	10846.7	6440.3	3476.6	1967.3	1504.7	1280.2	1163.4	1087.9
30°	21537.7	20889.5	18590.1	11291.0	5966.1	2942.9	1729.1	1371.9	1147.4	1023.8	975.6
32.5°	22824.8	22286.5	19923.0	11611.6	5460.0	2594.8	1545.9	1255.1	1071.8	945.9	874.9
35°	24338.6	23729.4	21065.8	11682.6	5134.8	2375.0	1390.1	1129.1	929.9	817.6	742.1
37.5°	25973.9	25215.8	22385.0	11526.9	4880.6	2267.4	1273.4	1071.8	868.0	753.5	673.3
40°	27783.1	26926.6	23651.5	11302.5	4630.9	2230.7	1184.1	1028.3	819.9	703.1	620.7
42.5°	29688.7	28678.6	24748.5	11066.5	4472.9	2104.7	1174.9	984.8	783.2	657.3	574.9
45°	31289.6	30265.8	25875.4	10988.6	4360.7	1967.3	1213.8	955.0	758.1	620.7	540.5
47.5°	32565.2	31596.4	27029.7	11162.7	4296.5	1841.4	1106.2	994.0	744.3	588.6	510.8
50°	34088.2	32991.2	28655.7	11682.6	4202.6	1715.4	1000.9	1138.3	744.3	568.0	485.5
52.5°	35998.4	34912.7	30469.6	12488.8	4014.8	1541.3	900.1	1140.6	751.2	540.5	453.5
55°	38400.8	37613.0	33059.9	13372.8	3714.8	1284.8	778.7	980.3	723.7	490.1	423.7
57.5°	40704.8	40061.2	35421.2	13977.5	3314.0	1003.1	677.9	790.1	661.9	430.6	377.9
59°	41334.6	40631.5	36286.9	14005.0	3014.0	874.9	627.5	652.7	648.2	403.1	350.4
60°	41334.6	40588.0	36536.5	13858.4	2796.4	803.9	595.4	581.8	675.7	384.7	334.3
62.5°	40585.8	39536.7	35725.8	12866.7	2281.1	684.8	519.9	481.0	606.9	345.8	295.5
65°	39028.3	37500.8	32963.7	11073.4	2033.8	627.5	448.9	394.0	421.4	304.6	258.8
67.5°	36431.1	34360.8	28981.0	8945.7	1935.3	611.5	387.1	334.3	318.3	261.1	226.7
70°	31857.5	29560.4	24146.2	7033.4	1850.5	604.7	325.2	281.7	256.5	219.8	192.4
72.5°	23186.6	20791.0	17142.6	5498.9	1800.1	618.4	261.1	235.9	210.7	171.8	148.9
75°	13262.9	11694.1	9635.1	3632.4	1534.4	590.9	201.6	196.9	151.2	123.7	103.0
77.5°	6852.5	6644.1	5773.7	1394.8	735.2	258.8	132.8	114.5	89.3	75.5	61.9
80°	2956.7	2924.7	2530.7	403.1	194.7	144.3	75.5	48.1	41.3	32.0	25.2
82.5°	1021.4	1021.4	900.1	135.2	87.0	71.0	9.1	0.0	0.0	0.0	0.0
85°	206.2	231.3	162.6	0.0	29.8	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°	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8
2.5°	13734.7	13457.6	13439.3	13265.2	13047.6	12949.2	12891.9	12992.7	13116.3	13130.1	13315.5
5°	10661.2	10370.3	10491.6	10182.5	10244.3	10182.5	10081.8	10100.0	10155.0	9983.2	10196.3
7.5°	7486.8	7267.0	7406.7	7324.3	7434.2	7477.7	7415.9	7324.3	7054.1	7021.9	7207.5
10°	5643.2	5393.6	5244.7	5089.0	5123.3	5194.3	5171.4	5105.0	4933.2	4942.4	5121.0
12.5°	4534.7	4255.3	3959.8	3577.4	3483.5	3536.2	3483.5	3444.6	3279.7	3293.4	3451.4
15°	3439.9	3211.0	2901.8	2594.8	2427.7	2443.7	2297.1	2194.1	2091.0	1967.3	2063.6
17.5°	2322.3	2182.6	2091.0	1999.4	1800.1	1754.4	1568.8	1369.6	1291.7	1234.5	1275.7
20°	1644.4	1568.8	1532.2	1527.6	1413.1	1355.9	1174.9	1051.3	1012.3	1000.9	1026.0
22.5°	1374.1	1319.2	1266.5	1236.7	1179.5	1113.1	975.6	913.8	886.4	872.6	890.9
25°	1195.5	1154.3	1099.3	1048.9	1026.0	955.0	856.6	810.7	792.5	778.7	787.8
27.5°	1062.7	1026.0	961.9	929.9	911.5	849.7	765.0	728.3	712.3	707.7	705.4
30°	957.4	923.0	863.5	826.7	794.7	739.7	689.3	652.7	636.7	632.1	627.5
32.5°	852.0	824.5	785.6	748.9	714.6	664.2	620.7	590.9	565.7	561.1	558.8
35°	719.2	691.7	671.1	668.8	636.7	588.6	556.5	517.6	497.0	490.1	492.4
37.5°	638.9	602.3	556.5	572.5	563.4	529.0	485.5	446.6	426.0	421.4	421.4
40°	588.6	549.7	497.0	469.5	497.0	490.1	421.4	382.5	361.9	359.6	355.0
42.5°	540.5	501.5	442.0	396.2	410.0	430.6	364.1	327.5	306.9	302.3	295.5
45°	506.1	464.9	398.5	345.8	318.3	361.9	311.5	265.7	254.2	245.1	240.4
47.5°	474.1	435.1	359.6	300.1	254.2	261.1	249.7	217.6	203.8	194.7	192.4
50°	446.6	405.4	325.2	256.5	210.7	192.4	201.6	171.8	160.3	151.2	146.5
52.5°	414.5	375.6	288.6	222.2	176.3	151.2	153.4	135.2	123.7	116.8	114.5
55°	389.4	350.4	258.8	194.7	155.8	123.7	109.9	105.4	98.5	93.9	91.6
57.5°	355.0	318.3	229.1	164.9	132.8	100.8	84.8	84.8	82.4	77.9	75.5
59°	334.3	302.3	210.7	148.9	121.4	87.0	75.5	77.9	75.5	71.0	68.7
60°	318.3	288.6	196.9	137.4	114.5	80.1	68.7	73.3	71.0	66.4	64.1
62.5°	281.7	261.1	169.4	114.5	100.8	64.1	57.3	61.9	61.9	59.5	57.3
65°	247.3	224.4	144.3	96.2	93.9	55.0	45.8	55.0	57.3	52.6	48.1
67.5°	215.3	192.4	125.9	77.9	87.0	43.5	34.4	45.8	61.9	48.1	43.5
70°	183.2	160.3	98.5	61.9	91.6	29.8	27.5	41.3	73.3	52.6	41.3
72.5°	142.0	123.7	68.7	45.8	98.5	20.6	20.6	34.4	82.4	57.3	38.9
75°	98.5	80.1	41.3	27.5	80.1	13.8	13.8	32.0	77.9	52.6	36.6
77.5°	57.3	43.5	13.8	2.3	41.3	0.0	2.3	22.9	55.0	32.0	16.0
80°	20.6	9.1	0.0	0.0	25.2	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°	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8
2.5°	13363.7	13672.9	13950.0	14369.1	14866.1	15438.6	15931.0	16460.1	16957.1	17163.2	17305.2
5°	10239.8	10622.3	11068.8	11684.9	12504.8	13514.8	14460.7	15530.3	16680.0	17254.9	17795.4
7.5°	7239.5	7628.8	8183.1	8838.2	9829.8	11032.2	12268.9	13746.1	15303.6	16212.7	17108.2
10°	5205.8	5684.4	6202.1	7097.6	8105.2	9245.8	10519.1	12168.2	13904.2	14911.9	15990.6
12.5°	3543.0	4088.1	4871.3	5874.5	7058.6	8176.2	9282.4	10855.9	12871.3	13869.8	15026.4
15°	2125.3	2427.7	3256.8	4418.0	5870.0	7262.4	8474.0	10052.0	12200.2	13423.2	14625.6
17.5°	1310.0	1449.8	1900.9	2853.7	4379.0	6140.2	7800.6	9779.4	12296.4	13785.0	15072.3
20°	1044.4	1099.3	1243.6	1685.6	2901.8	4903.5	7042.6	9724.4	13082.0	14914.2	16295.2
22.5°	907.0	959.6	1055.8	1225.3	1825.4	3671.3	6323.4	9774.8	14208.8	16606.7	18219.0
25°	799.3	845.1	936.7	1076.4	1337.5	2585.7	5553.9	9999.3	15676.8	18706.9	20420.0
27.5°	714.6	753.5	838.2	966.5	1147.4	1804.7	4681.3	10271.8	17417.4	20855.1	22545.3
30°	636.7	671.1	746.6	865.7	996.3	1387.9	3724.0	10457.4	19160.4	22545.3	24063.7
32.5°	570.3	595.4	664.2	765.0	865.7	1106.2	2830.8	10427.6	20454.4	23951.6	25156.3
35°	501.5	526.8	586.3	673.3	753.5	913.8	2226.1	9871.1	21581.2	25410.5	26406.7
37.5°	426.0	458.0	515.3	593.2	648.2	803.9	1800.1	9200.0	22724.0	27077.8	27801.5
40°	361.9	394.0	444.3	529.0	563.4	762.7	1383.3	8382.3	24008.8	28942.1	29331.4
42.5°	300.1	329.8	382.5	455.8	531.4	657.3	1023.8	7447.9	25243.3	30536.0	30726.2
45°	242.8	272.6	327.5	400.8	568.0	545.0	792.5	6447.1	26239.6	31862.1	31923.9
47.5°	192.4	219.8	277.1	377.9	529.0	435.1	565.7	5661.5	27075.4	32897.3	32734.7
50°	148.9	171.8	231.3	432.9	462.6	359.6	428.2	5400.5	27824.4	33538.6	33117.2
52.5°	116.8	137.4	190.1	405.4	359.6	297.7	359.6	5645.5	28850.4	34070.0	33332.4
55°	93.9	114.5	148.9	231.3	245.1	251.9	306.9	5874.5	30620.8	35315.8	34603.5
57.5°	77.9	98.5	121.4	162.6	185.5	213.0	272.6	5899.7	32707.2	37386.3	36712.8
59°	71.0	89.3	109.9	144.3	162.6	194.7	256.5	5762.3	33442.4	38139.7	37803.0
60°	66.4	84.8	103.0	132.8	151.2	183.2	247.3	5631.8	33474.4	38112.2	38268.0
62.5°	57.3	75.5	91.6	112.3	128.3	155.8	222.2	5148.5	32118.6	36864.0	37988.6
65°	50.4	66.4	82.4	96.2	109.9	139.7	201.6	4266.8	29803.2	34850.9	36076.2
67.5°	45.8	57.3	75.5	84.8	98.5	123.7	178.7	3041.5	26910.5	32388.9	33183.6
70°	41.3	55.0	68.7	77.9	89.3	107.7	153.4	1747.5	22724.0	28784.0	29349.7
72.5°	38.9	52.6	61.9	73.3	80.1	96.2	139.7	822.2	16638.7	23058.3	24535.6
75°	34.4	48.1	57.3	68.7	75.5	87.0	119.1	394.0	11066.5	16686.8	18365.6
77.5°	20.6	38.9	52.6	61.9	66.4	75.5	98.5	226.7	7063.2	11549.8	13604.1
80°	0.0	13.8	38.9	52.6	57.3	64.1	75.5	178.7	3778.9	6598.2	7919.7
82.5°	0.0	0.0	27.5	41.3	38.9	43.5	57.3	112.3	1704.0	4312.6	4860.0
85°	0.0	0.0	9.1	32.0	27.5	20.6	38.9	38.9	373.3	2182.6	2723.1
87.5°	0.0	0.0	0.0	2.3	13.8	9.1	16.0	4.6	2.3	162.6	659.6
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°	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8	15747.8
2.5°	17802.2	17971.7	18258.0	18393.1	18326.7	18045.0	17708.3	17364.8	17163.2	17243.4
5°	18896.9	19769.5	20273.4	20440.6	20161.2	19529.1	18702.3	17612.1	17225.1	17119.7
7.5°	18896.9	20539.0	21578.8	21762.1	21139.1	19900.1	18349.5	16647.9	16082.2	15876.1
10°	18232.8	20468.1	21917.8	22208.7	21338.4	19485.6	17408.3	15466.1	14795.1	14582.1
12.5°	17483.8	19891.0	21418.5	21819.4	21104.8	19073.3	16755.6	14666.8	13876.7	13691.1
15°	17023.5	19180.9	20445.1	20736.1	20433.7	18832.8	16599.8	14426.3	13496.5	13317.9
17.5°	17188.5	18631.2	19087.0	19256.5	19460.3	18748.0	17023.5	14953.1	13775.9	13606.5
20°	17809.0	18051.8	17815.9	18028.9	18578.6	18830.5	18033.6	16226.5	14813.4	14586.6
22.5°	18862.6	17751.9	17089.9	17174.7	17843.4	19103.1	19577.1	18045.0	16414.3	16130.3
25°	20090.1	17994.6	16686.8	16611.3	17298.4	19462.6	20988.0	20023.7	18308.4	17994.6
27.5°	21633.8	18539.7	16604.4	16528.8	17108.2	19799.3	22160.6	21979.7	20303.2	19767.3
30°	22824.8	19075.6	16849.5	16675.4	17298.4	20032.9	23101.8	23640.1	21892.6	21537.7
32.5°	23679.0	19707.7	17248.0	16996.0	17834.3	20436.0	23827.9	25160.8	23362.9	22824.8
35°	24329.4	20394.7	17891.5	17477.0	18571.7	21047.5	24508.1	26780.0	24927.2	24338.6
37.5°	24938.6	21359.0	18896.9	18402.3	19728.3	22032.3	25227.2	28616.8	26677.0	25973.9
40°	25788.3	22451.4	20447.5	20007.7	21672.7	23374.4	26125.0	30531.5	28667.2	27783.1
42.5°	26638.1	23624.0	22034.6	22153.7	24098.1	25005.1	27283.9	32556.1	30632.3	29688.7
45°	27414.4	24833.3	24295.1	24844.7	26349.5	26793.7	28435.9	33726.4	32201.1	31289.6
47.5°	28106.1	26344.9	26541.8	28005.3	28909.9	28412.9	29297.0	34736.4	33369.1	32565.2
50°	28909.9	28300.8	29503.1	31573.5	31857.5	29878.7	30080.3	35931.9	34734.1	34088.2
52.5°	29789.4	30362.0	32782.8	34608.1	34516.5	31470.5	30868.1	37271.7	36605.3	35998.4
55°	30788.0	32027.0	35670.8	37448.0	37370.1	33247.7	32173.6	38927.6	38950.4	38400.8
57.5°	32269.7	33460.7	37631.3	39745.2	39875.7	35299.8	34385.9	40782.7	41071.3	40704.8
59°	33332.4	34390.6	38407.7	40704.8	41236.2	36887.0	36002.9	41859.1	41669.1	41334.6
60°	34120.4	34981.5	38792.4	41206.4	42026.3	37963.4	37196.1	42491.2	41740.0	41334.6
62.5°	36069.3	36268.6	39486.4	41774.3	42935.5	40354.4	40553.6	43567.6	41247.6	40585.8
65°	36978.5	37081.6	39477.2	40757.4	42056.0	42216.3	43599.7	43599.7	40045.2	39028.3
67.5°	36598.4	36101.4	37519.1	37386.3	38682.5	41110.2	44744.8	42001.1	37745.7	36431.1
70°	33506.6	31594.2	30964.4	31021.6	32013.3	35757.8	42477.5	37296.9	33394.3	31857.5
72.5°	27879.4	23292.0	21736.8	23511.8	23770.6	27480.8	36199.8	28087.7	24627.1	23186.6
75°	22423.9	16418.9	13890.4	15763.8	16203.6	20110.8	28003.1	17493.0	14385.1	13262.9
77.5°	16109.7	11785.7	9967.2	9836.7	10404.6	12754.5	19870.3	8803.8	7342.6	6852.5
80°	9151.9	7757.1	8352.6	7880.8	8167.1	7974.7	9440.5	3861.4	3162.9	2956.7
82.5°	5524.1	4585.1	4965.2	4133.9	5230.9	4555.4	3636.9	1236.7	1074.2	1021.4
85°	3593.4	2505.6	1305.5	874.9	1802.5	2910.9	813.1	336.7	258.8	206.2
87.5°	1239.1	638.9	64.1	27.5	192.4	542.8	29.8	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)