

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: P532449

Luminaire Tested: **GALN-SA7D-740-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-740-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29788 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

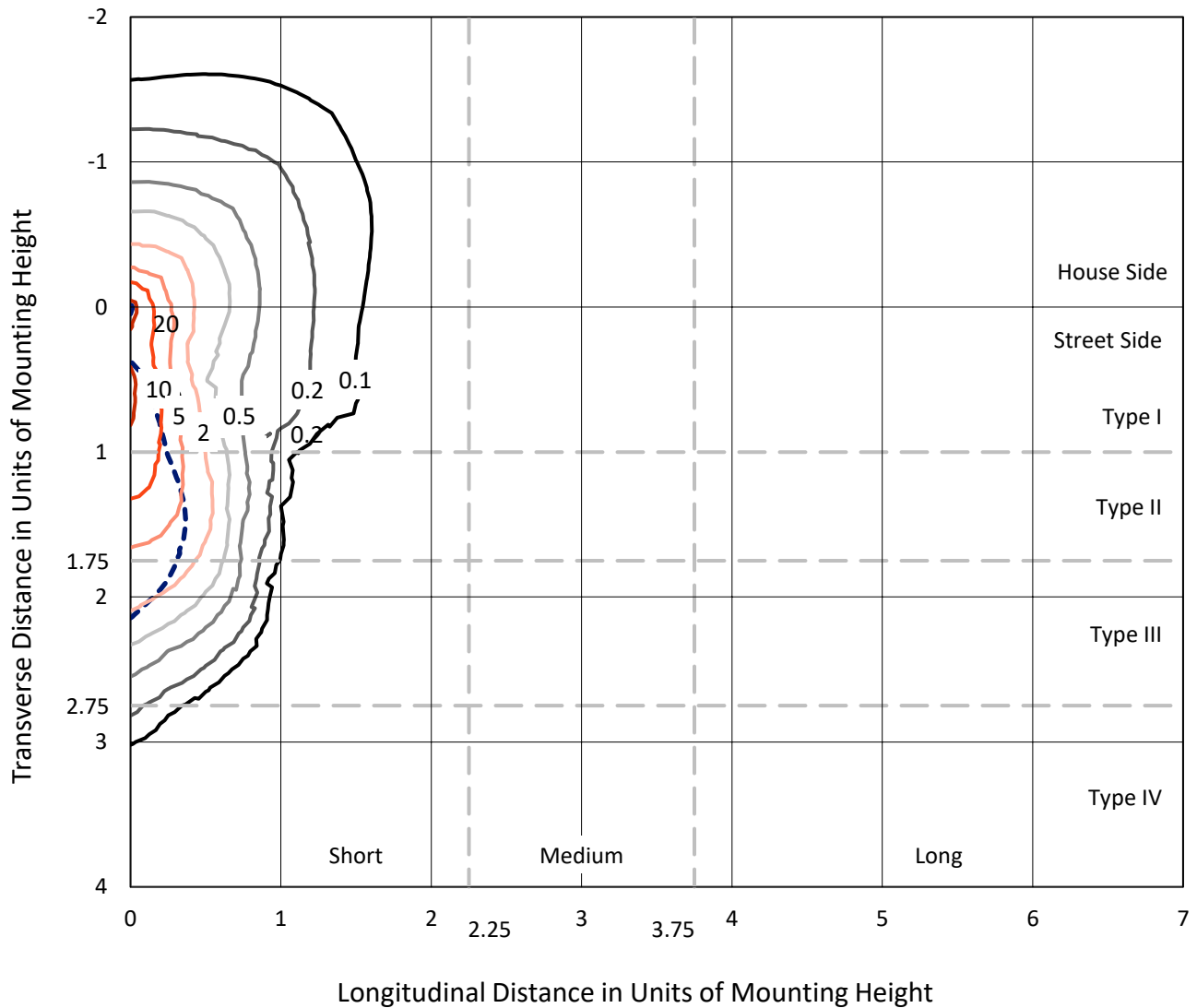
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

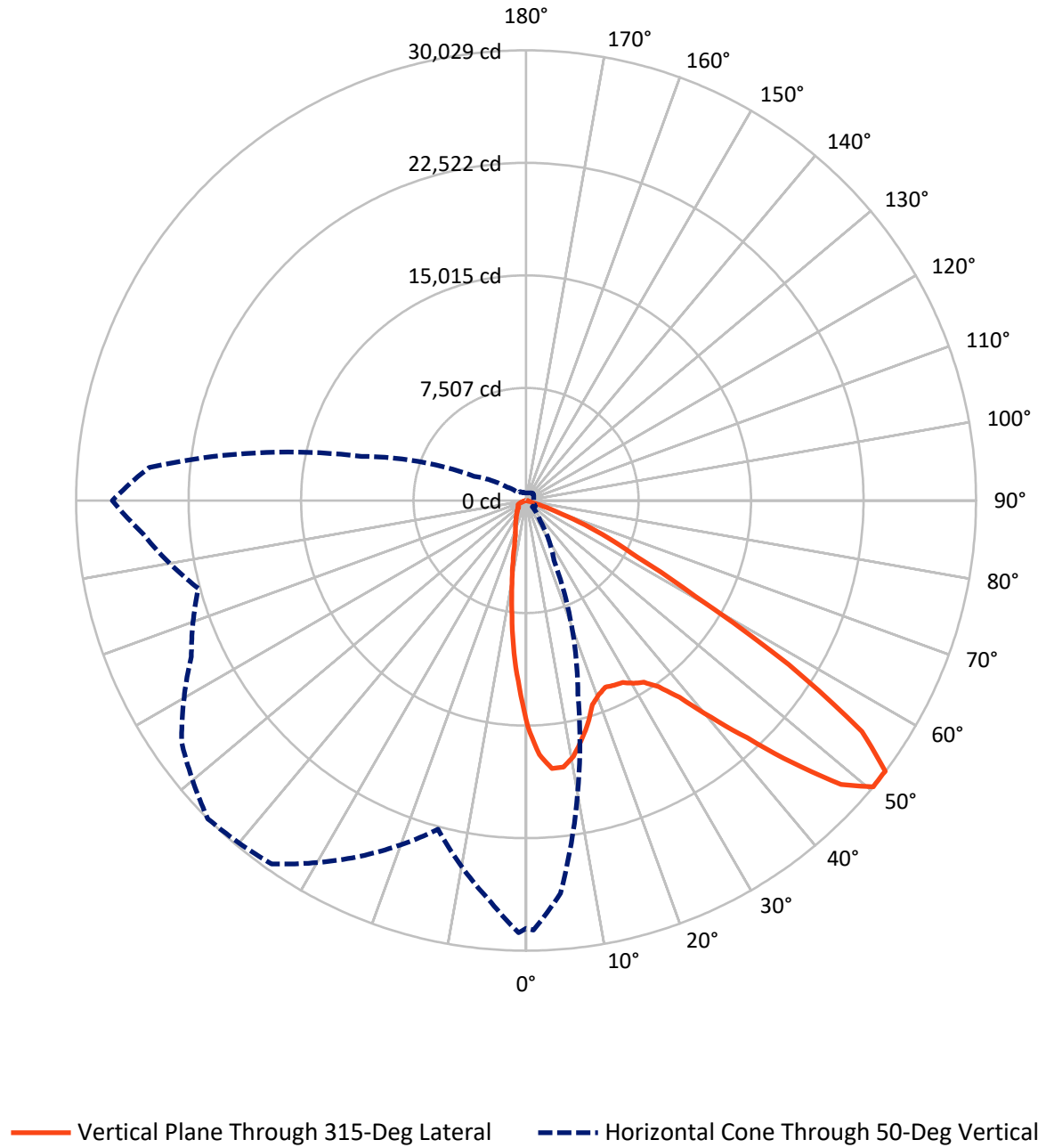
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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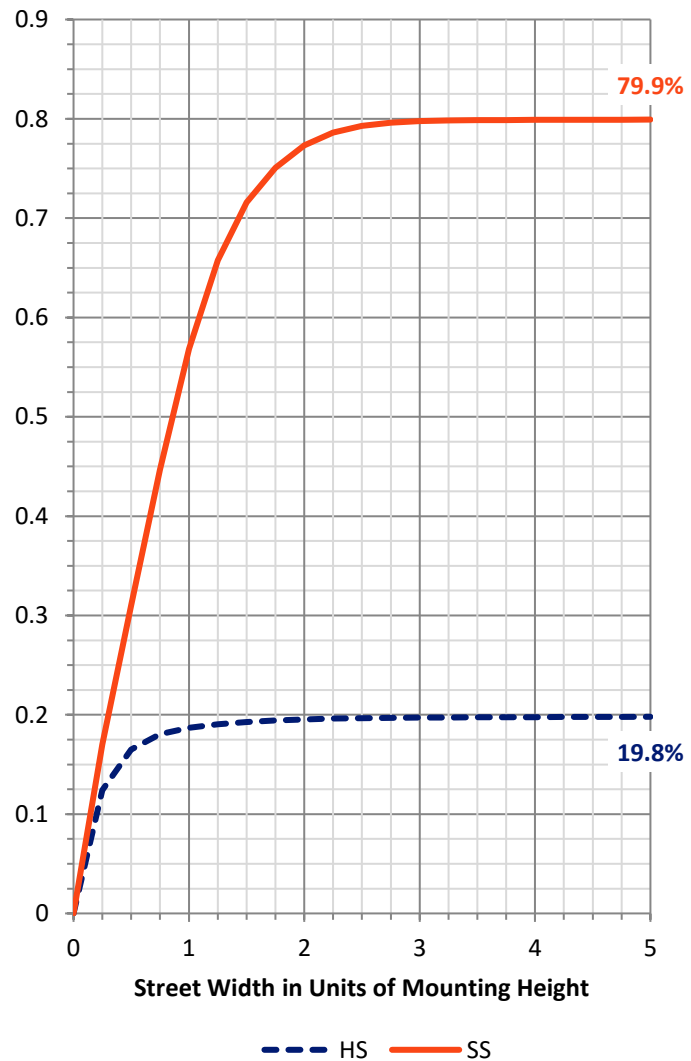
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5966.5	0.0	5966.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	23821.5	0.0	23821.5
	% Fixture	80.0	0.0	80.0
Total	Lumens	29788.0	0.0	29788.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1101.1	3.7
10°-20°	2188.4	7.3
20°-30°	3287.6	11.0
30°-40°	4934.6	16.6
40°-50°	6935.2	23.3
50°-60°	7480.8	25.1
60°-70°	3473.3	11.7
70°-80°	326.8	1.1
80°-90°	60.2	0.2
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°	29788.0	100.0
0°-180°	29788.0	100.0



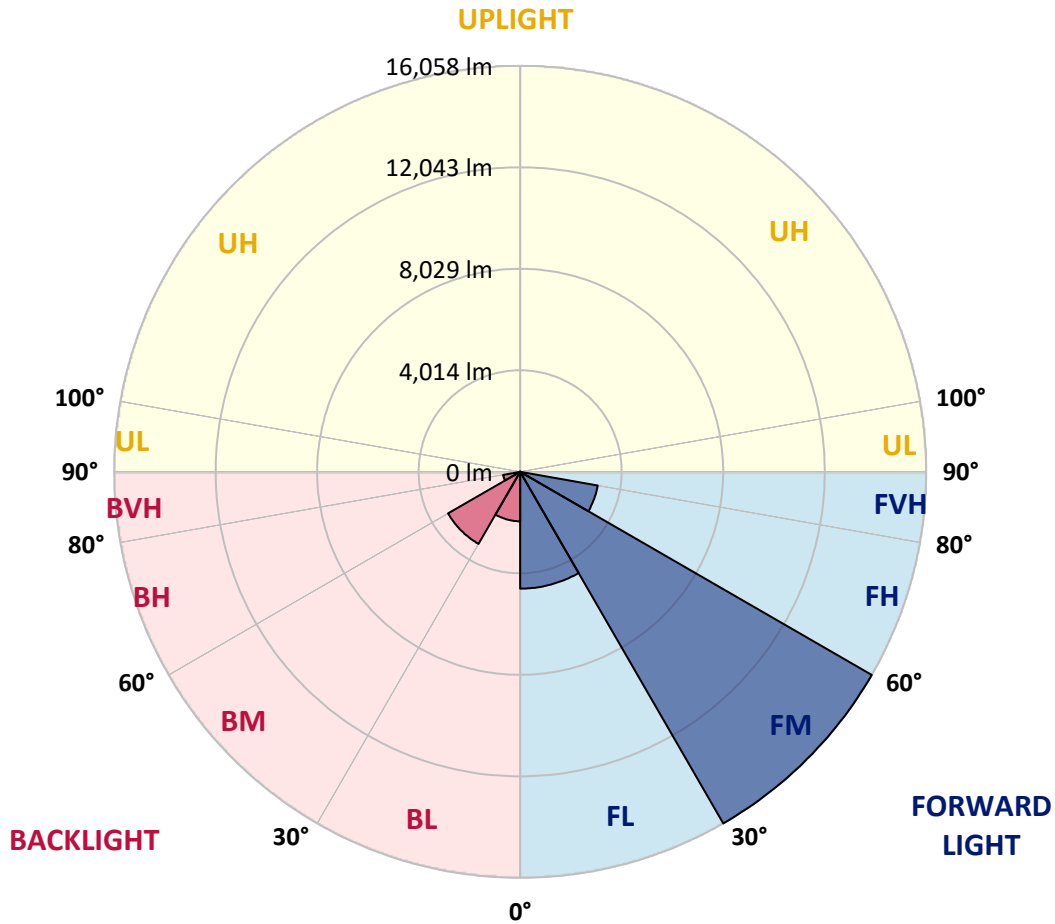
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4621.4	15.5			
FM (30°-60°)	16058.0	53.9			
FH (60°-80°)	3115.0	10.5			G2/5000
FVH (80°-90°)	27.1	0.1			G1/100
BL (0°-30°)	1955.7	6.6	B3/2500		
BM (30°-60°)	3292.6	11.1	B3/5000		
BH (60°-80°)	685.1	2.3	B2/1000		G2/1000
BVH (80°-90°)	33.1	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3
2.5°	15703.2	15460.9	15153.6	14899.4	14521.2	13758.8	13551.9	13303.7	13096.8	12819.1	12429.0
5°	14278.9	14202.0	14060.2	13102.7	12411.3	11489.3	10732.8	10413.6	9994.0	9651.2	9403.0
7.5°	13191.4	12884.1	12434.9	11471.5	10366.4	9379.4	8540.1	8049.6	7494.0	7304.9	6968.0
10°	12027.1	12098.0	11436.1	10082.7	8747.0	7949.1	7429.0	6956.2	6453.9	6122.9	5644.2
12.5°	11654.8	11424.3	10916.0	9243.4	8102.8	7358.1	6725.7	6140.6	5608.7	5076.8	4615.8
15°	11897.1	11542.5	10833.3	9066.1	7606.3	6678.4	5886.5	5094.5	4604.0	3924.3	3445.6
17.5°	12765.9	12482.2	11530.6	9255.3	7352.2	6028.3	4852.2	4036.6	3286.0	2671.4	2429.1
20°	14213.8	13812.0	12618.1	9497.6	6973.9	5242.3	3936.1	2931.4	2222.2	1962.2	1826.2
22.5°	15632.3	15413.6	13906.5	9964.5	6637.1	4544.9	2955.1	1974.0	1660.7	1613.5	1524.8
25°	18333.2	17677.2	15874.6	10809.6	6377.0	3888.9	2228.1	1589.8	1406.6	1371.1	1383.0
27.5°	19940.8	19391.1	17694.9	11371.1	6087.4	3386.5	1885.3	1459.8	1335.7	1258.9	1229.3
30°	21483.3	20845.0	18599.2	11702.0	5466.9	2854.6	1672.6	1400.7	1371.1	1258.9	1223.4
32.5°	22671.2	22044.8	19905.3	12198.5	5212.7	2511.8	1377.1	1093.4	1016.5	1004.7	1111.1
35°	24491.5	23823.7	21022.3	12470.4	5017.7	2334.5	1193.8	975.2	886.5	851.1	857.0
37.5°	26187.7	25732.7	22056.6	12576.7	4810.8	2281.3	1069.7	874.7	797.9	774.2	768.3
40°	27606.2	26589.6	23037.7	12689.0	4722.2	2180.8	992.9	797.9	744.7	709.2	709.2
42.5°	28256.3	27222.0	24136.9	12624.0	4698.5	2021.3	992.9	732.9	691.5	656.0	650.1
45°	28114.4	27694.8	24627.5	12594.5	4698.5	1861.7	904.2	715.1	656.0	608.7	596.9
47.5°	28480.9	27931.2	25242.1	12718.6	4604.0	1749.4	762.4	750.6	620.6	561.5	549.6
50°	28545.9	28652.3	26311.9	13362.8	4397.1	1607.6	596.9	738.8	596.9	508.3	496.5
52°	28971.4	28309.5	26636.9	13705.6	4178.5	1501.2	502.4	632.4	573.3	472.8	461.0
52.5°	28386.3	28817.8	26713.7	13829.7	4202.1	1430.2	484.6	620.6	561.5	472.8	443.3
55°	27730.3	28144.0	26400.5	14095.6	3853.4	1122.9	378.2	449.2	508.3	413.7	396.0
57.5°	24101.5	24521.1	22943.1	12907.7	3138.3	792.0	313.2	336.9	449.2	384.2	366.4
60°	21424.2	21122.8	19255.2	10768.2	2228.1	443.3	248.2	260.0	490.5	354.6	348.7
62.5°	19580.2	18936.0	16093.3	8315.5	1359.3	295.5	195.0	200.9	378.2	331.0	331.0
65°	14485.7	13764.7	10691.4	5029.5	667.8	206.9	147.8	159.6	236.4	283.7	283.7
67.5°	8268.3	7990.5	5165.4	2269.5	277.8	130.0	112.3	124.1	183.2	230.5	218.7
70°	3800.2	3410.1	1985.8	478.7	130.0	88.7	88.7	100.5	147.8	171.4	159.6
72.5°	1111.1	1052.0	484.6	76.8	53.2	53.2	59.1	76.8	112.3	130.0	118.2
75°	82.7	53.2	35.5	23.6	23.6	35.5	47.3	76.8	112.3	124.1	100.5
77.5°	5.9	11.8	5.9	5.9	17.7	35.5	53.2	94.6	147.8	153.7	112.3
80°	5.9	5.9	0.0	5.9	17.7	35.5	59.1	106.4	165.5	177.3	94.6
82.5°	0.0	0.0	0.0	5.9	23.6	47.3	70.9	112.3	153.7	189.1	100.5
85°	0.0	0.0	0.0	5.9	35.5	65.0	82.7	29.6	17.7	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°	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3
2.5°	12706.8	12553.1	12494.0	12547.2	12529.5	12511.7	12836.8	12765.9	12754.0	12860.4	12836.8
5°	9538.9	9267.1	10011.7	9710.3	10023.6	10212.7	10248.2	10265.9	10484.6	10254.1	10555.5
7.5°	6796.6	6867.6	6861.7	7062.6	7423.1	7742.3	7931.4	7783.6	7771.8	7742.3	7612.2
10°	5431.4	5307.3	5283.6	5236.4	5348.7	5620.5	5851.0	5667.8	5537.8	5715.1	5661.9
12.5°	4438.5	4267.1	4172.5	3983.4	3989.3	4172.5	4172.5	4172.5	4302.6	4403.0	4479.9
15°	3404.2	3262.4	3262.4	3073.3	3031.9	3037.8	3132.4	3144.2	3351.0	3410.1	3439.7
17.5°	2381.8	2304.9	2393.6	2470.4	2423.1	2435.0	2470.4	2482.3	2511.8	2488.2	2547.3
20°	1832.1	1820.3	1844.0	1979.9	2080.4	2139.5	2098.1	2039.0	2003.5	1920.8	1920.8
22.5°	1554.4	1578.0	1619.4	1731.7	1861.7	1897.1	1849.9	1713.9	1607.6	1595.7	1601.6
25°	1383.0	1406.6	1471.6	1542.5	1613.5	1672.6	1625.3	1524.8	1465.7	1412.5	1412.5
27.5°	1276.6	1288.4	1323.9	1377.1	1436.2	1483.4	1465.7	1412.5	1347.5	1323.9	1270.7
30°	1193.8	1211.6	1252.9	1264.8	1318.0	1341.6	1312.0	1300.2	1258.9	1229.3	1211.6
32.5°	1152.5	1146.6	1176.1	1187.9	1193.8	1211.6	1176.1	1193.8	1187.9	1140.7	1122.9
35°	868.8	916.1	992.9	1057.9	1075.6	1099.3	1093.4	1069.7	1004.7	951.5	886.5
37.5°	780.1	809.7	851.1	904.2	975.2	1004.7	992.9	933.8	857.0	821.5	809.7
40°	721.0	738.8	774.2	809.7	880.6	933.8	892.4	839.2	780.1	750.6	732.9
42.5°	667.8	673.8	691.5	726.9	780.1	862.9	792.0	721.0	697.4	679.7	667.8
45°	608.7	608.7	632.4	650.1	709.2	786.0	715.1	650.1	638.3	626.5	620.6
47.5°	561.5	567.4	579.2	602.8	650.1	703.3	656.0	602.8	573.3	567.4	555.6
50°	502.4	508.3	531.9	555.6	614.7	644.2	614.7	555.6	526.0	508.3	508.3
52°	455.1	472.8	496.5	543.7	585.1	632.4	596.9	531.9	496.5	478.7	466.9
52.5°	449.2	461.0	484.6	537.8	585.1	626.5	591.0	526.0	484.6	472.8	461.0
55°	401.9	419.6	461.0	526.0	579.2	626.5	579.2	520.1	461.0	431.4	419.6
57.5°	384.2	396.0	449.2	531.9	573.3	626.5	579.2	520.1	461.0	407.8	396.0
60°	366.4	390.1	449.2	514.2	567.4	632.4	585.1	514.2	449.2	384.2	384.2
62.5°	348.7	366.4	443.3	502.4	543.7	608.7	561.5	502.4	431.4	366.4	360.5
65°	301.4	331.0	390.1	419.6	466.9	526.0	478.7	437.3	378.2	325.1	319.1
67.5°	230.5	242.3	289.6	325.1	354.6	407.8	384.2	331.0	289.6	248.2	248.2
70°	159.6	171.4	206.9	224.6	254.1	283.7	266.0	224.6	195.0	171.4	165.5
72.5°	112.3	118.2	130.0	141.8	153.7	165.5	159.6	130.0	112.3	106.4	100.5
75°	88.7	100.5	106.4	100.5	94.6	88.7	88.7	76.8	65.0	59.1	59.1
77.5°	88.7	94.6	88.7	76.8	65.0	59.1	53.2	47.3	35.5	29.6	35.5
80°	76.8	76.8	76.8	65.0	59.1	53.2	47.3	41.4	35.5	29.6	29.6
82.5°	82.7	82.7	76.8	65.0	65.0	53.2	53.2	47.3	41.4	29.6	29.6
85°	0.0	0.0	0.0	11.8	29.6	53.2	53.2	47.3	41.4	35.5	35.5
87.5°	0.0	0.0	0.0	0.0	5.9	11.8	23.6	29.6	35.5	35.5	35.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3
2.5°	13049.5	13274.1	13699.7	14125.2	14385.2	14692.6	15248.1	15543.6	15927.8	16116.9	16489.2
5°	10514.1	11046.0	11235.1	11719.8	12239.9	12760.0	13587.4	14497.5	15254.0	15774.1	16447.9
7.5°	7671.3	7795.5	8528.3	8853.4	9704.4	10650.0	11778.9	12925.4	13882.9	14733.9	15248.1
10°	5750.5	6205.6	6666.6	7287.2	7972.8	8947.9	10029.5	11294.2	12535.4	13386.4	14036.5
12.5°	4621.7	4982.2	5596.9	6264.7	7109.9	7754.1	8841.5	10094.5	11702.0	12535.4	13392.3
15°	3498.8	3959.8	4657.2	5348.7	6241.1	6920.8	8020.0	9598.0	11666.6	12813.1	13551.9
17.5°	2594.5	2907.8	3534.3	4308.5	5218.6	6176.1	7659.5	9544.8	12062.6	13427.8	14190.2
20°	1985.8	2092.2	2488.2	3179.6	4166.6	5419.6	7074.4	9775.3	13232.8	14923.1	15697.3
22.5°	1607.6	1654.8	1808.5	2287.2	3244.7	4757.6	6796.6	9934.9	14550.7	16713.8	17748.1
25°	1400.7	1388.9	1489.4	1696.2	2535.4	4137.1	6442.0	10537.7	16164.2	18817.8	19745.7
27.5°	1276.6	1276.6	1323.9	1471.6	2104.0	3735.2	6217.4	10969.2	17789.5	20667.7	21170.1
30°	1211.6	1223.4	1359.3	1406.6	1749.4	3256.5	5845.1	11406.5	19343.8	21849.7	22541.2
32.5°	1122.9	1075.6	1046.1	1164.3	1471.6	2825.0	5472.8	11589.7	20602.7	23297.7	23888.7
35°	862.9	839.2	874.7	963.3	1264.8	2458.6	5059.1	11796.6	22050.7	24976.2	25094.4
37.5°	780.1	774.2	797.9	874.7	1063.8	2139.5	4763.6	11743.4	23155.9	26365.1	26045.9
40°	721.0	721.0	738.8	803.8	951.5	1914.9	4456.2	11696.1	24225.6	27925.3	26991.5
42.5°	673.8	673.8	703.3	744.7	904.2	1767.1	4225.7	11631.1	25123.9	28882.8	27547.1
45°	608.7	626.5	673.8	715.1	916.1	1666.7	4054.3	11382.9	25431.3	28870.9	27281.1
47.5°	561.5	585.1	632.4	691.5	827.4	1637.1	3936.1	11164.2	25324.9	28161.7	26447.8
50°	508.3	537.8	602.8	703.3	703.3	1578.0	3812.0	11359.3	25248.0	27612.1	25649.9
52°	472.8	496.5	579.2	685.6	614.7	1453.9	3735.2	11737.5	25561.3	27541.2	25295.3
52.5°	466.9	484.6	561.5	673.8	585.1	1430.2	3682.0	11826.2	25661.7	27363.9	25537.6
55°	413.7	437.3	514.2	526.0	478.7	1176.1	3510.6	12027.1	25165.3	27015.2	25307.1
57.5°	390.1	401.9	455.1	431.4	413.7	886.5	3020.1	11713.9	22352.1	23995.1	23545.9
60°	360.5	372.3	425.5	336.9	348.7	620.6	2269.5	10171.3	17949.0	19993.9	20803.6
62.5°	348.7	342.8	401.9	271.9	295.5	449.2	1601.6	8268.3	13829.7	16459.7	17860.4
65°	307.3	301.4	289.6	230.5	254.1	348.7	957.4	5395.9	9745.8	12452.6	13220.9
67.5°	236.4	248.2	212.8	183.2	212.8	271.9	531.9	2417.2	5112.3	7470.4	8091.0
70°	165.5	177.3	171.4	159.6	189.1	224.6	307.3	827.4	2115.8	3924.3	4326.2
72.5°	100.5	124.1	130.0	135.9	165.5	195.0	218.7	266.0	561.5	1388.9	1725.8
75°	59.1	82.7	100.5	118.2	135.9	165.5	183.2	189.1	195.0	260.0	419.6
77.5°	41.4	59.1	88.7	112.3	135.9	165.5	195.0	206.9	195.0	183.2	195.0
80°	35.5	59.1	82.7	106.4	141.8	171.4	195.0	195.0	189.1	165.5	177.3
82.5°	35.5	59.1	88.7	112.3	135.9	165.5	189.1	195.0	177.3	165.5	171.4
85°	41.4	65.0	94.6	118.2	147.8	135.9	124.1	100.5	94.6	76.8	82.7
87.5°	41.4	59.1	59.1	65.0	70.9	70.9	70.9	65.0	53.2	47.3	47.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3	15106.3
2.5°	16507.0	16979.8	16962.0	16973.9	16902.9	16424.2	16193.7	15608.6	15774.1	15703.2
5°	17139.4	17606.3	18008.1	17960.9	17417.1	16767.0	15803.7	14893.5	14645.3	14278.9
7.5°	16507.0	17629.9	18002.2	17949.0	17145.3	16311.9	14775.3	13865.1	13433.7	13191.4
10°	15502.2	16802.5	17263.5	17358.0	16814.3	15549.5	14137.0	12677.2	12446.7	12027.1
12.5°	14929.0	15874.6	16158.3	16412.4	16223.3	15277.7	13652.4	12251.7	11932.5	11654.8
15°	14462.1	15023.5	15141.7	15431.3	15543.6	15035.3	13906.5	12712.7	11926.6	11897.1
17.5°	14893.5	14663.0	14231.6	14320.2	14674.8	15041.3	14562.5	13622.8	12860.4	12765.9
20°	15608.6	14592.1	13616.9	13835.6	14131.1	15254.0	15555.4	14893.5	14456.2	14213.8
22.5°	16430.1	14716.2	13421.9	13528.3	14089.7	15732.7	17163.0	16796.6	15981.0	15632.3
25°	17949.0	15059.0	13575.5	13646.5	14414.8	16400.6	18616.9	18888.7	18404.1	18333.2
27.5°	19432.5	15945.5	13912.4	13752.9	14580.3	17050.7	19497.5	20957.3	20106.2	19940.8
30°	20189.0	16666.5	14414.8	14142.9	15265.8	17446.7	20029.4	22304.8	21560.1	21483.3
32.5°	21347.4	17322.6	14804.9	14456.2	15650.0	17937.2	21022.3	23776.4	23055.4	22671.2
35°	21832.0	18037.7	15661.8	15254.0	16749.3	18622.8	21530.6	25088.5	24863.9	24491.5
37.5°	22765.8	18806.0	16672.5	16648.8	18079.1	19515.2	22446.6	26873.3	26832.0	26187.7
40°	22842.6	19645.2	18268.2	19012.9	20135.8	21069.6	23250.4	27369.8	28043.5	27606.2
42.5°	22960.8	21116.9	21028.2	21642.9	22606.2	22405.3	23280.0	27488.0	28516.3	28256.3
45°	23014.0	22588.5	23835.5	24970.3	25372.2	24154.7	23002.2	27263.4	28764.6	28114.4
47.5°	22588.5	23853.3	26105.0	28297.7	28415.9	25230.3	22884.0	27032.9	28912.3	28480.9
50°	22647.6	24645.2	28067.2	30029.3	29597.9	26181.8	22700.8	26891.1	28835.5	28545.9
52°	22505.7	24662.9	28344.9	29993.9	29692.5	25655.8	22387.5	26347.3	28764.6	28971.4
52.5°	22665.3	24556.6	28055.3	30017.5	29627.4	25915.9	22346.2	26648.7	28805.9	28386.3
55°	22115.7	23291.8	26359.1	27192.5	27133.4	23522.3	21075.5	25649.9	27724.4	27730.3
57.5°	19988.0	20189.0	20673.6	20655.9	20384.0	18492.8	18025.9	23587.3	24716.1	24101.5
60°	17612.2	14781.2	13475.1	12943.2	12641.8	12334.4	15945.5	21577.9	21684.2	21424.2
62.5°	15218.6	10248.2	8510.6	8362.8	8433.7	9556.7	15413.6	20780.0	20141.7	19580.2
65°	12281.2	7470.4	6182.0	5987.0	6678.4	7890.0	12476.3	15933.7	14952.6	14485.7
67.5°	7712.7	5449.1	4178.5	3812.0	4645.4	5431.4	8197.3	10011.7	8912.5	8268.3
70°	4574.4	3043.7	1891.2	1696.2	1909.0	2896.0	4592.2	4994.1	4131.2	3800.2
72.5°	1802.6	1117.0	526.0	449.2	466.9	1016.5	1690.3	1648.9	1247.0	1111.1
75°	484.6	336.9	183.2	147.8	124.1	189.1	271.9	177.3	65.0	82.7
77.5°	224.6	200.9	159.6	124.1	94.6	70.9	35.5	11.8	11.8	5.9
80°	195.0	171.4	147.8	124.1	94.6	59.1	29.6	5.9	5.9	5.9
82.5°	183.2	159.6	135.9	112.3	88.7	59.1	29.6	5.9	0.0	0.0
85°	76.8	100.5	112.3	106.4	94.6	59.1	29.6	5.9	0.0	0.0
87.5°	41.4	35.5	29.6	23.6	17.7	11.8	11.8	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)