

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: P458844

Luminaire Tested: **GALN-SA3D-735-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-21)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 15449 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

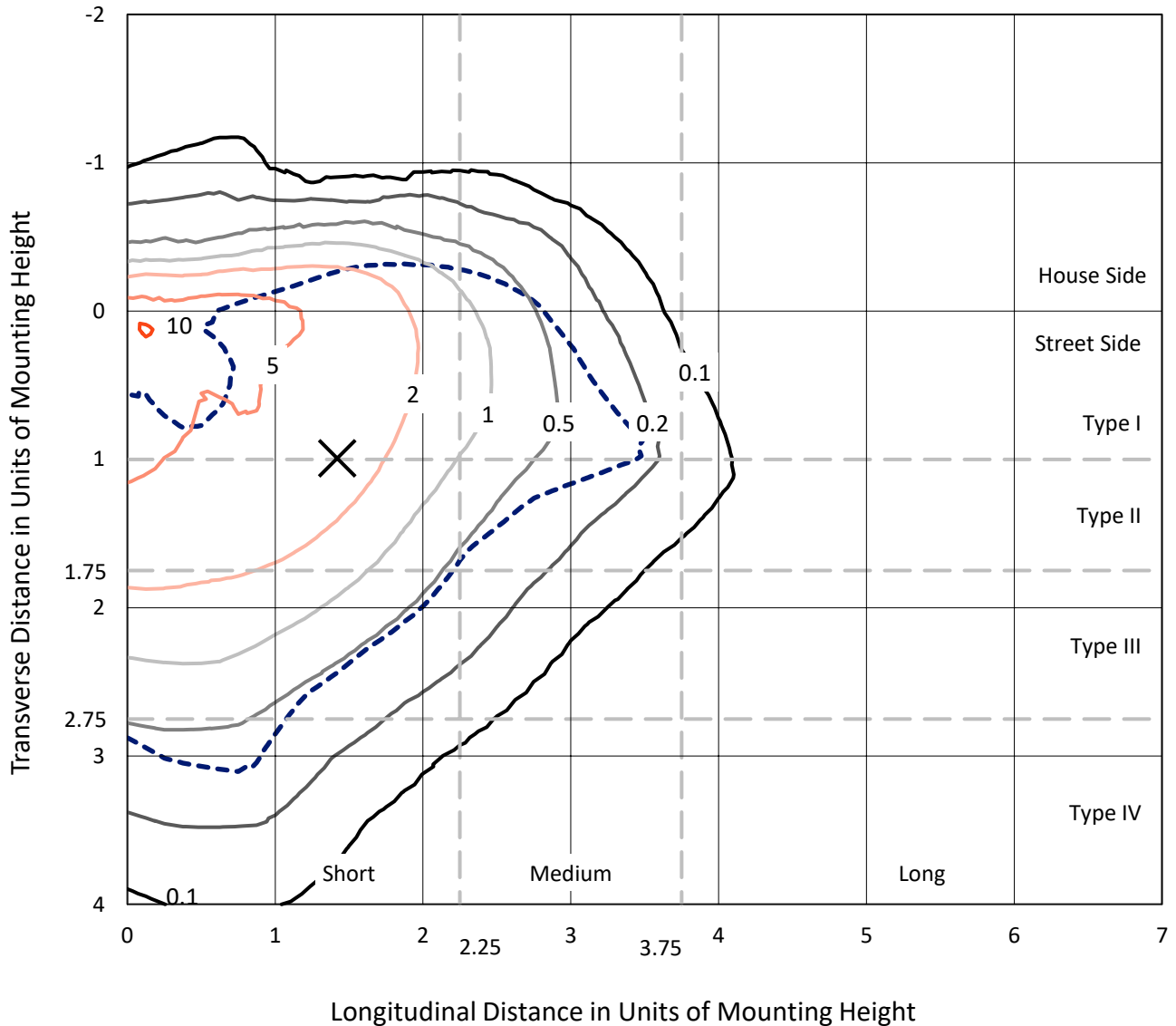
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

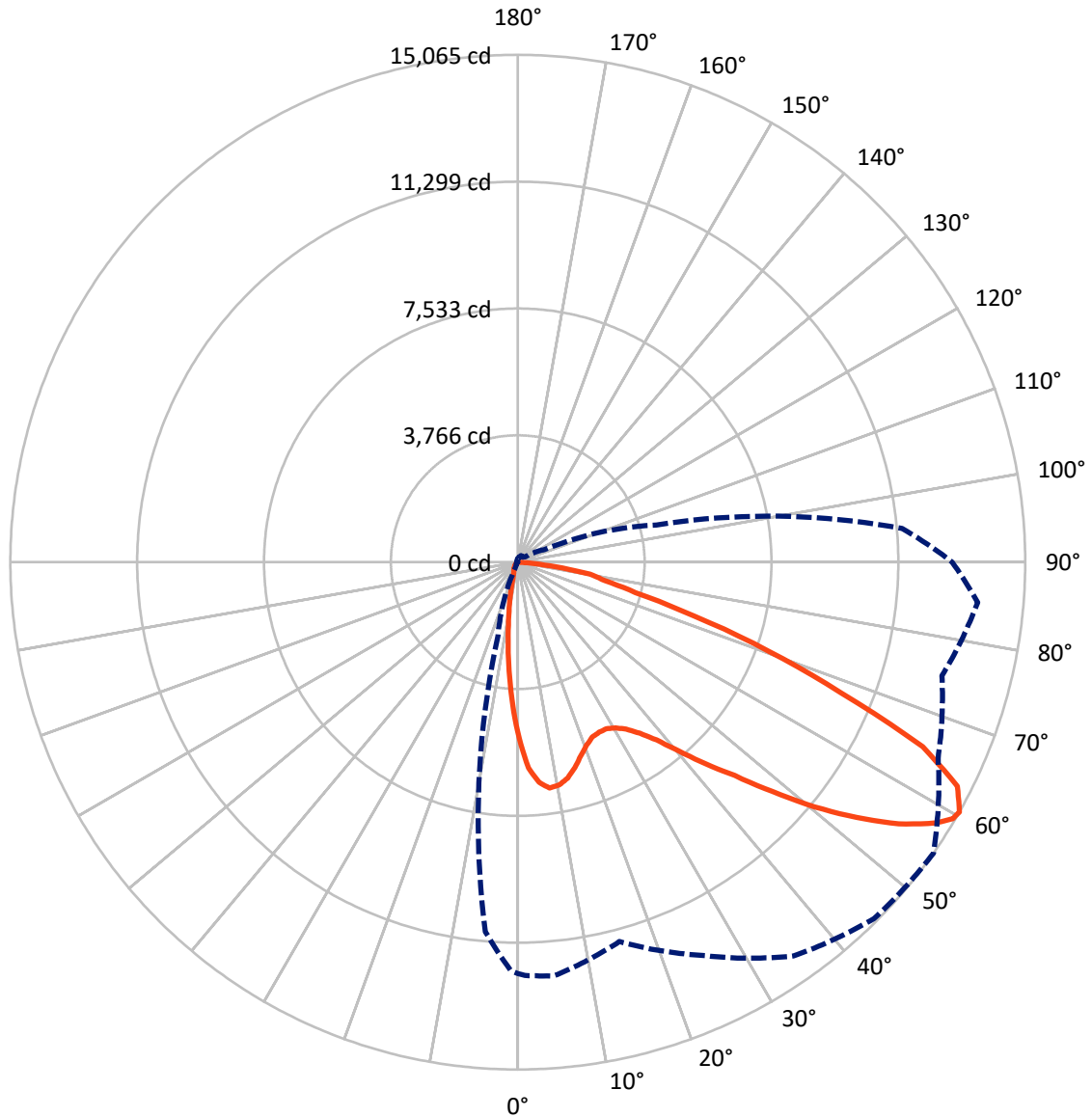
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2292.8	0.0	2292.8
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	13156.2	0.0	13156.2
	% Fixture	85.2	0.0	85.2
Total	Lumens	15449.0	0.0	15449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.4	2.5
10°-20°	762.8	4.9
20°-30°	1129.1	7.3
30°-40°	1683.0	10.9
40°-50°	2464.8	16.0
50°-60°	3558.4	23.0
60°-70°	3743.3	24.2
70°-80°	1539.9	10.0
80°-90°	180.3	1.2
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°	15449.0	100.0
0°-180°	15449.0	100.0

Coefficient of Utilization



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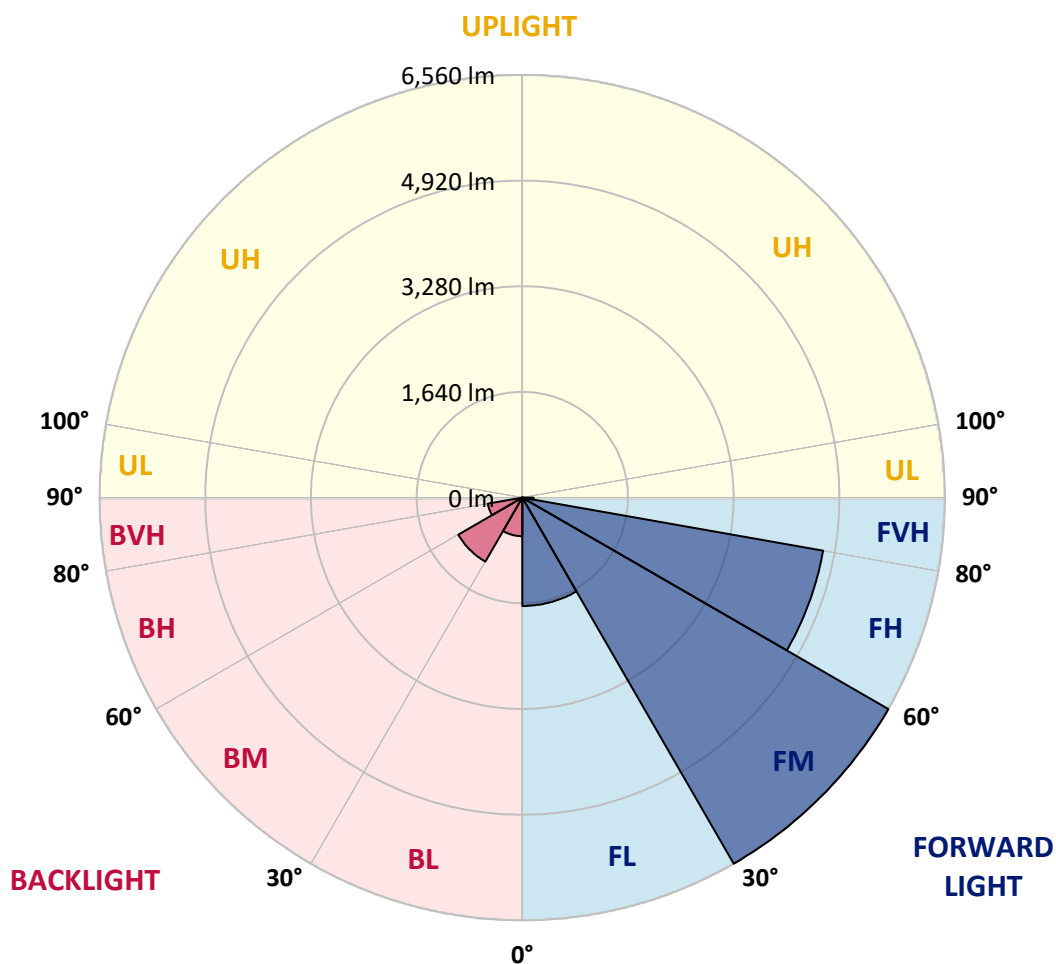
CATALOG NUMBER: GALN-SA3D-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1681.1	10.9			
FM	(30°-60°)	6559.7	42.5			
FH	(60°-80°)	4740.5	30.7			G2/5000
FVH	(80°-90°)	175.0	1.1			G2/225
BL	(0°-30°)	598.2	3.9	B2/1000		
BM	(30°-60°)	1146.6	7.4	B2/2500		
BH	(60°-80°)	542.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	5.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0
2.5°	5715.0	5705.5	5789.9	5927.8	6066.9	6139.5	6125.2	6119.3	6003.9	5919.5	5742.3
5°	5703.1	5751.8	5902.8	6276.2	6559.2	6696.0	6736.4	6566.4	6341.6	6015.8	5613.9
7.5°	5361.8	5422.4	5668.6	6252.5	6755.5	7052.7	7042.0	6769.7	6306.0	5801.8	5228.6
10°	4938.5	5009.8	5298.8	6007.5	6660.3	7052.7	7074.1	6729.3	6152.6	5505.7	4902.8
12.5°	4640.0	4724.4	5044.3	5779.2	6415.4	6801.8	6826.8	6577.1	6037.2	5391.5	4725.6
15°	4538.9	4618.6	4943.2	5663.8	6154.9	6363.0	6357.1	6330.9	5992.0	5418.9	4735.1
17.5°	4712.5	4777.9	5144.2	5716.2	5911.2	5889.8	5920.7	6046.7	6001.5	5648.4	5034.8
20°	5160.8	5227.4	5621.0	5876.7	5724.5	5588.9	5603.2	5813.7	6089.5	6080.0	5503.3
22.5°	5778.0	5891.0	6247.7	6188.2	5699.5	5402.2	5372.5	5646.0	6239.4	6577.1	6135.9
25°	6559.2	6673.4	6951.7	6685.3	5822.0	5358.2	5330.9	5594.9	6421.3	7062.3	6848.2
27.5°	7215.6	7302.5	7579.5	7169.3	6002.7	5377.3	5332.1	5602.0	6568.8	7474.9	7448.7
30°	7741.2	7805.5	7968.4	7395.2	6158.5	5460.5	5408.2	5706.6	6634.2	7675.8	7935.1
32.5°	8164.6	8272.8	8323.9	7636.6	6382.1	5617.5	5528.3	5907.6	6793.5	7924.4	8445.2
35°	8648.6	8773.4	8708.0	7867.3	6677.0	5862.4	5753.0	6233.4	7034.9	8153.9	9037.4
37.5°	9262.1	9406.0	9150.4	8109.9	6988.5	6231.0	6179.9	6691.2	7401.2	8482.1	9672.4
40°	9897.1	9980.4	9579.6	8404.8	7371.4	6767.3	6816.1	7371.4	7880.4	8875.7	10347.8
42.5°	10393.0	10471.5	10020.8	8652.1	7762.6	7403.5	7606.9	8191.9	8429.8	9278.8	10852.0
45°	10772.3	10838.9	10326.4	8922.1	8290.6	8325.1	8709.2	9037.4	8980.3	9524.9	11240.9
47.5°	11067.2	11124.3	10561.9	9212.2	9081.4	9452.4	10039.8	10179.0	9551.1	9791.3	11592.8
50°	11188.5	11205.2	10635.6	9582.0	9979.2	10888.9	11501.3	11416.8	10205.1	10087.4	11967.4
52.5°	11346.7	11343.1	10846.1	9934.0	10823.5	12173.1	12784.4	12592.9	10944.8	10530.9	12388.4
55°	11761.7	11766.5	11296.7	10433.4	11542.9	13210.1	13864.1	13725.0	11724.8	11280.1	12879.5
57.5°	12265.9	12283.7	11937.7	11017.3	12230.2	13961.6	14670.3	14616.8	12779.6	12113.7	13343.2
59°	12331.3	12367.0	12240.9	11428.7	12638.1	14192.3	14946.2	14998.5	13344.4	12663.1	13594.1
60°	12212.4	12271.8	12328.9	11661.8	12877.1	14275.5	14962.8	15065.1	13769.0	13036.4	13708.3
62.5°	11693.9	11787.9	12074.4	12378.9	13175.6	14016.3	14431.3	14645.3	14294.5	14017.5	13719.0
65°	11014.9	11063.7	11477.5	12506.1	12596.5	12805.8	12934.2	13208.9	13663.1	14395.6	13227.9
67.5°	9901.9	10045.8	10552.4	11767.6	10887.7	10640.3	10608.2	10334.7	11514.4	13494.3	12017.4
70°	8180.0	8244.2	8868.5	9647.4	8216.9	7836.4	7988.6	7886.3	8925.6	11616.6	9672.4
72.5°	6185.9	6330.9	6941.0	7690.1	5591.3	5097.8	5517.6	5479.5	6704.3	9335.9	6644.9
75°	4401.0	4494.9	5272.6	6018.2	3915.8	3317.7	3468.7	3610.2	4680.4	7371.4	3926.5
77.5°	3024.0	3104.8	3688.7	3980.0	2856.3	2736.2	2503.1	2639.9	3066.8	4373.6	2136.9
80°	1824.1	1820.6	2204.6	2276.0	1989.4	2310.5	1938.3	2176.1	1853.9	1871.7	827.6
82.5°	1184.4	1172.5	1348.5	1469.8	1107.1	1164.2	781.3	1126.1	1208.2	522.0	261.6
85°	530.4	552.9	648.1	855.0	485.2	258.0	159.3	346.0	514.9	262.8	0.0
87.5°	54.7	42.8	114.2	208.1	66.6	7.1	23.8	11.9	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°	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0
2.5°	5660.3	5591.3	5385.6	5192.9	5027.6	4825.5	4694.7	4489.0	4364.1	4326.1	4332.0
5°	5433.1	5234.6	4843.3	4530.6	4182.2	3983.6	3681.6	3391.4	3234.4	3176.2	3150.0
7.5°	4957.5	4744.6	4272.5	3781.4	3408.1	3059.6	2834.9	2579.2	2404.4	2260.5	2235.6
10°	4604.3	4324.9	3739.8	3211.8	2916.9	2655.3	2430.6	2174.9	1969.2	1805.1	1759.9
12.5°	4392.7	4079.9	3427.1	2984.7	2705.3	2436.5	2144.0	1847.9	1637.4	1460.3	1378.2
15°	4354.6	3991.9	3339.1	2821.8	2477.0	2152.3	1763.5	1443.6	1227.2	1059.5	1008.4
17.5°	4584.1	4150.1	3326.0	2651.8	2178.5	1718.3	1314.0	1048.8	805.0	711.1	674.2
20°	4993.2	4429.5	3324.8	2454.4	1871.7	1323.5	922.8	683.8	585.1	539.9	518.5
22.5°	5550.9	4810.0	3387.8	2284.3	1553.0	976.3	658.8	544.6	487.5	450.7	442.4
25°	6232.2	5373.7	3542.4	2169.0	1309.2	765.8	543.4	466.1	418.6	401.9	394.8
27.5°	6837.5	5913.6	3712.5	2050.1	1134.4	677.8	504.2	426.9	388.8	375.8	365.1
30°	7359.5	6403.5	3794.5	1893.1	994.1	620.7	511.3	456.6	406.7	367.4	349.6
32.5°	7794.8	6779.2	3848.0	1750.4	875.2	507.8	404.3	353.2	330.6	316.3	304.4
35°	8339.4	7185.9	3815.9	1669.5	814.6	462.6	368.6	304.4	266.4	237.8	225.9
37.5°	8910.2	7592.6	3760.0	1602.9	787.2	429.3	350.8	289.0	247.3	217.6	202.2
40°	9501.2	7969.6	3694.6	1541.1	762.2	407.9	340.1	275.9	234.3	202.2	185.5
42.5°	10042.2	8337.0	3668.5	1500.7	721.8	411.4	331.8	269.9	221.2	187.9	173.6
45°	10479.8	8685.4	3704.1	1479.3	677.8	405.5	334.1	262.8	210.5	178.4	164.1
47.5°	10947.1	9177.7	3819.5	1457.9	635.0	377.0	352.0	261.6	205.7	172.4	157.0
50°	11490.6	9808.0	4083.5	1405.6	582.7	346.0	374.6	260.4	199.8	165.3	149.8
52.5°	12214.8	10523.8	4355.8	1314.0	506.6	316.3	357.9	256.9	187.9	157.0	141.5
55°	12865.2	11277.7	4586.5	1205.8	410.3	273.5	322.3	241.4	167.7	142.7	128.4
57.5°	13134.0	11703.4	4579.3	1055.9	328.2	240.2	265.2	221.2	146.3	126.0	114.2
59°	13035.3	11649.9	4425.9	945.4	299.7	222.4	220.0	218.8	136.8	114.2	104.6
60°	12896.1	11454.9	4260.7	890.7	281.8	210.5	202.2	216.4	128.4	107.0	97.5
62.5°	12363.4	10646.3	3712.5	797.9	258.0	178.4	161.7	183.1	114.2	92.8	84.4
65°	11591.7	9403.7	3142.9	771.7	250.9	147.5	134.4	130.8	97.5	78.5	71.3
67.5°	10086.2	7957.7	2545.9	753.9	253.3	123.7	117.7	98.7	80.9	65.4	60.6
70°	8075.4	6204.9	2084.5	733.7	255.7	101.1	98.7	78.5	65.4	54.7	49.9
72.5°	4906.4	3678.0	1641.0	637.4	248.5	80.9	88.0	59.5	47.6	39.2	36.9
75°	3033.5	2517.4	1017.9	495.9	164.1	59.5	61.8	36.9	32.1	25.0	25.0
77.5°	1757.5	1589.9	363.9	178.4	72.5	35.7	27.4	19.0	17.8	10.7	10.7
80°	728.9	583.9	126.0	60.6	39.2	16.6	5.9	1.2	0.0	0.0	0.0
82.5°	212.9	189.1	34.5	27.4	11.9	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°	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0
2.5°	4230.9	4191.7	4173.9	4234.5	4178.6	4250.0	4195.3	4219.0	4289.2	4320.1	4399.8
5°	3166.7	3126.2	3107.2	3198.8	3194.0	3239.2	3234.4	3276.1	3311.7	3232.1	3314.1
7.5°	2205.8	2178.5	2223.7	2295.0	2371.1	2346.2	2346.2	2290.3	2309.3	2297.4	2293.8
10°	1677.9	1583.9	1560.1	1557.8	1586.3	1592.2	1560.1	1482.8	1511.4	1519.7	1569.7
12.5°	1319.9	1247.4	1136.8	1086.9	1073.8	1084.5	978.7	910.9	943.0	924.0	972.7
15°	946.5	887.1	821.7	765.8	750.3	728.9	613.6	532.7	523.2	526.8	535.1
17.5°	675.4	635.0	635.0	575.5	543.4	479.2	421.0	385.3	381.7	385.3	391.2
20°	498.2	476.8	474.5	459.0	423.3	380.5	340.1	333.0	330.6	336.5	338.9
22.5°	429.3	406.7	387.7	386.5	353.2	317.5	298.5	289.0	290.1	292.5	298.5
25°	384.1	360.3	340.1	328.2	304.4	279.4	261.6	256.9	256.9	260.4	261.6
27.5°	352.0	322.3	304.4	287.8	266.4	245.0	229.5	225.9	223.6	225.9	231.9
30°	329.4	299.7	277.1	252.1	235.4	215.2	202.2	197.4	196.2	197.4	202.2
32.5°	281.8	264.0	246.2	223.6	203.3	190.3	176.0	167.7	167.7	170.0	174.8
35°	212.9	203.3	202.2	196.2	179.6	165.3	148.6	140.3	140.3	145.1	147.5
37.5°	187.9	170.0	167.7	165.3	158.2	139.1	123.7	116.5	115.3	118.9	123.7
40°	171.2	151.0	140.3	137.9	139.1	117.7	101.1	93.9	93.9	95.1	99.9
42.5°	158.2	134.4	115.3	113.0	117.7	98.7	82.1	74.9	74.9	74.9	80.9
45°	147.5	120.1	97.5	85.6	92.8	80.9	66.6	59.5	57.1	59.5	61.8
47.5°	140.3	109.4	85.6	69.0	69.0	64.2	53.5	45.2	42.8	44.0	47.6
50°	134.4	99.9	72.5	55.9	49.9	51.1	40.4	34.5	32.1	32.1	35.7
52.5°	124.9	90.4	63.0	47.6	38.1	34.5	29.7	25.0	23.8	25.0	27.4
55°	113.0	82.1	54.7	39.2	29.7	23.8	21.4	17.8	16.6	17.8	21.4
57.5°	99.9	69.0	44.0	30.9	20.2	15.5	14.3	11.9	9.5	10.7	13.1
59°	91.6	61.8	38.1	25.0	15.5	10.7	10.7	8.3	5.9	7.1	10.7
60°	88.0	57.1	32.1	21.4	13.1	8.3	8.3	5.9	3.6	4.8	8.3
62.5°	74.9	47.6	25.0	13.1	5.9	1.2	3.6	1.2	0.0	1.2	3.6
65°	63.0	38.1	16.6	5.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2
67.5°	52.3	28.5	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	41.6	19.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	28.5	10.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	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°	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0	5231.0
2.5°	4404.5	4574.6	4679.2	4876.6	5078.8	5234.6	5429.6	5604.4	5676.9	5715.0
5°	3397.3	3634.0	3834.9	4135.8	4415.2	4755.3	5100.2	5506.9	5662.6	5703.1
7.5°	2384.2	2625.6	2836.1	3184.5	3582.9	4038.3	4554.4	5070.5	5297.6	5361.8
10°	1721.9	1979.9	2236.8	2585.2	2957.4	3450.9	3988.3	4626.9	4888.5	4938.5
12.5°	1086.9	1363.9	1781.3	2211.8	2605.4	3002.6	3565.0	4259.5	4548.4	4640.0
15°	630.2	837.1	1152.3	1713.5	2214.2	2739.8	3353.4	4121.5	4445.0	4538.9
17.5°	422.1	493.5	709.9	1139.2	1800.3	2497.2	3299.8	4234.5	4592.4	4712.5
20°	355.6	387.7	463.8	694.5	1386.5	2280.8	3314.1	4541.3	5011.0	5160.8
22.5°	312.7	342.5	391.2	499.4	968.0	2012.0	3381.9	4980.1	5586.5	5778.0
25°	275.9	305.6	348.4	413.8	650.5	1701.6	3530.5	5622.2	6348.8	6559.2
27.5°	245.0	272.3	309.2	365.1	500.6	1355.6	3662.5	6247.7	7044.4	7215.6
30°	216.4	239.0	274.7	317.5	416.2	1045.2	3729.1	6794.7	7551.0	7741.2
32.5°	187.9	209.3	243.8	278.3	342.5	796.7	3682.7	7196.6	8043.3	8164.6
35°	160.5	183.1	211.7	243.8	296.1	643.3	3450.9	7648.5	8553.4	8648.6
37.5°	137.9	157.0	186.7	211.7	267.6	514.9	3170.2	8055.2	9125.4	9262.1
40°	116.5	135.6	165.3	187.9	246.2	405.5	2916.9	8507.0	9728.3	9897.1
42.5°	95.1	117.7	143.9	180.7	211.7	309.2	2610.1	8873.3	10181.3	10393.0
45°	76.1	101.1	129.6	179.6	184.3	235.4	2314.0	9158.7	10582.1	10772.3
47.5°	60.6	85.6	124.9	167.7	151.0	186.7	2145.2	9457.2	10915.0	11067.2
50°	48.8	71.3	130.8	147.5	126.0	158.2	2140.4	9790.1	11087.5	11188.5
52.5°	39.2	58.3	110.6	113.0	107.0	139.1	2268.9	10164.7	11263.5	11346.7
55°	33.3	48.8	72.5	83.2	96.3	126.0	2365.2	10741.4	11683.2	11761.7
57.5°	26.2	41.6	55.9	66.6	85.6	115.3	2378.3	11186.2	12214.8	12265.9
59°	22.6	35.7	49.9	59.5	78.5	108.2	2324.8	11213.5	12249.2	12331.3
60°	19.0	32.1	44.0	55.9	72.5	102.3	2266.5	11014.9	12120.8	12212.4
62.5°	14.3	25.0	32.1	45.2	59.5	88.0	1990.6	10321.7	11629.7	11693.9
65°	9.5	17.8	23.8	33.3	46.4	76.1	1622.0	9422.7	10871.0	11014.9
67.5°	5.9	13.1	19.0	25.0	38.1	64.2	1155.8	8080.1	9809.1	9901.9
70°	3.6	8.3	14.3	20.2	29.7	51.1	686.1	6386.8	8161.0	8180.0
72.5°	2.4	5.9	9.5	14.3	23.8	46.4	333.0	4163.1	5958.7	6185.9
75°	1.2	3.6	5.9	10.7	19.0	38.1	159.3	2781.4	4335.6	4401.0
77.5°	0.0	1.2	3.6	7.1	14.3	29.7	92.8	1826.5	2956.2	3024.0
80°	0.0	0.0	2.4	5.9	10.7	19.0	55.9	1077.4	1790.8	1824.1
82.5°	0.0	0.0	1.2	4.8	7.1	14.3	28.5	473.3	1172.5	1184.4
85°	0.0	0.0	1.2	4.8	5.9	9.5	10.7	64.2	520.8	530.4
87.5°	0.0	0.0	1.2	5.9	5.9	5.9	5.9	3.6	44.0	54.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)