

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: P529329

Luminaire Tested: **GALN-SA4C-727-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529329
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-SA4C-727-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA 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: 12858 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G1

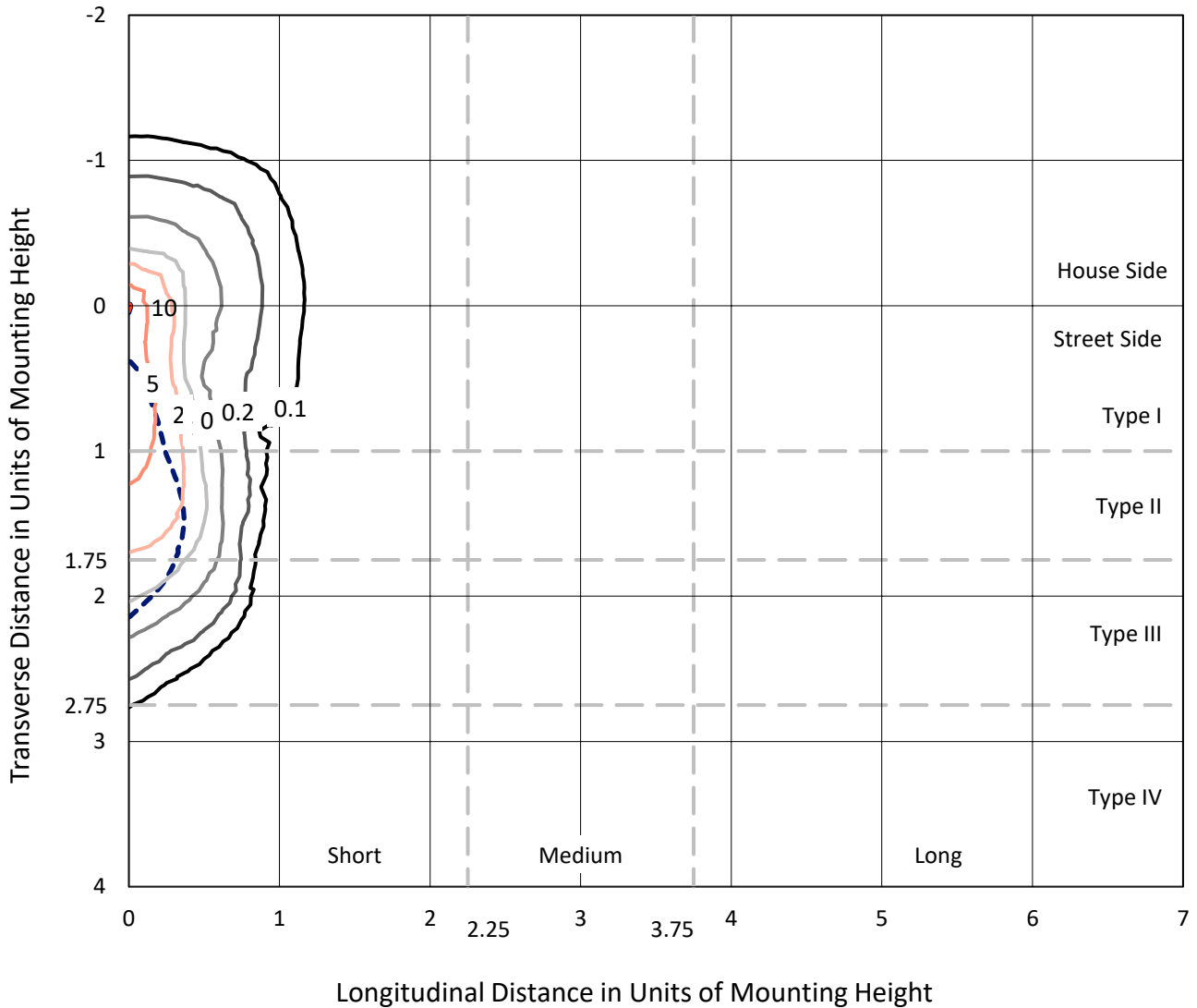
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

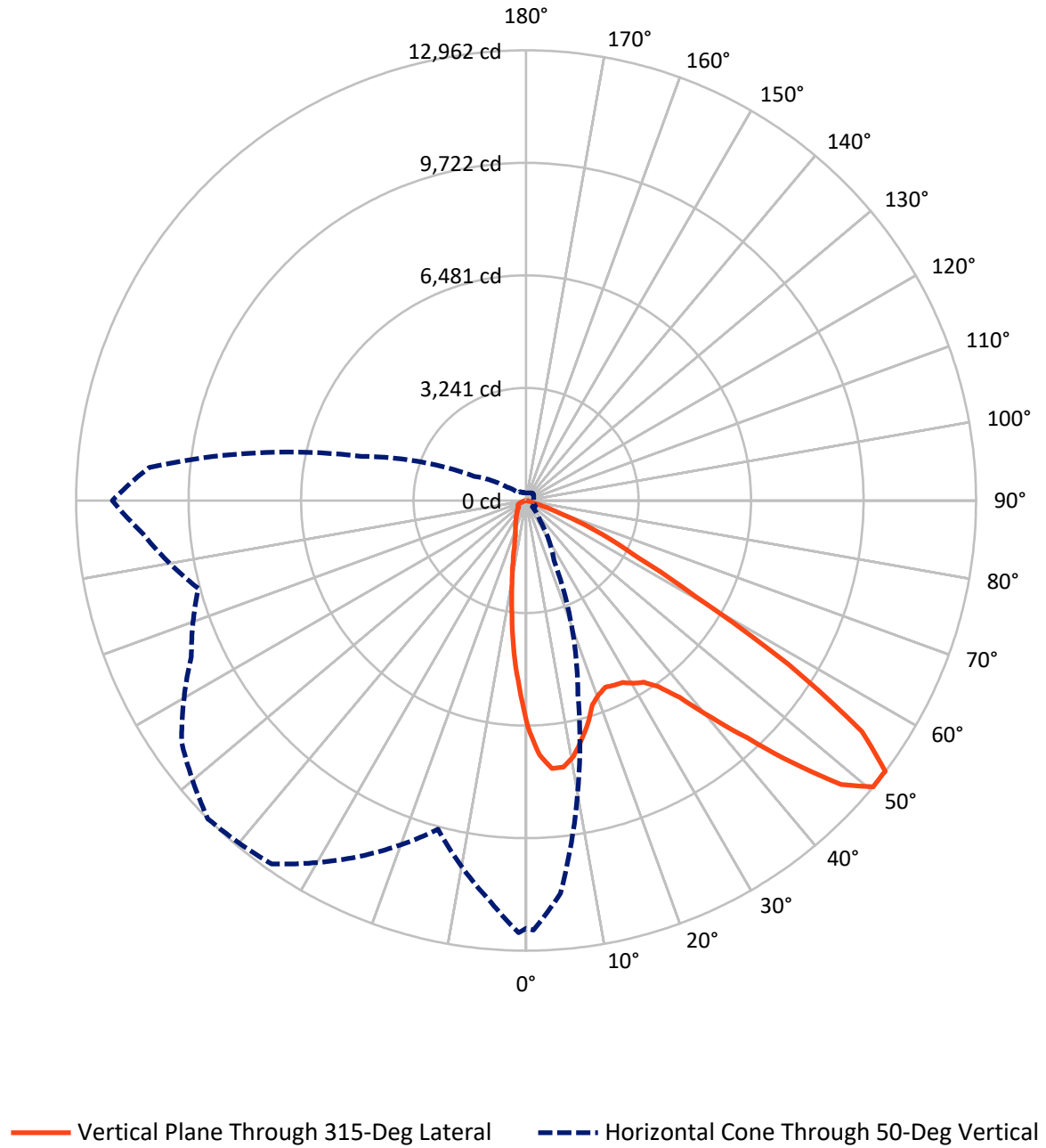
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	2575.5	0.0	2575.5
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	10282.6	0.0	10282.6
	% Fixture	80.0	0.0	80.0
Total	Lumens	12858.0	0.0	12858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.3	3.7
10°-20°	944.6	7.3
20°-30°	1419.1	11.0
30°-40°	2130.0	16.6
40°-50°	2993.6	23.3
50°-60°	3229.1	25.1
60°-70°	1499.3	11.7
70°-80°	141.1	1.1
80°-90°	26.0	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°	12858.0	100.0
0°-180°	12858.0	100.0

Coefficient of Utilization



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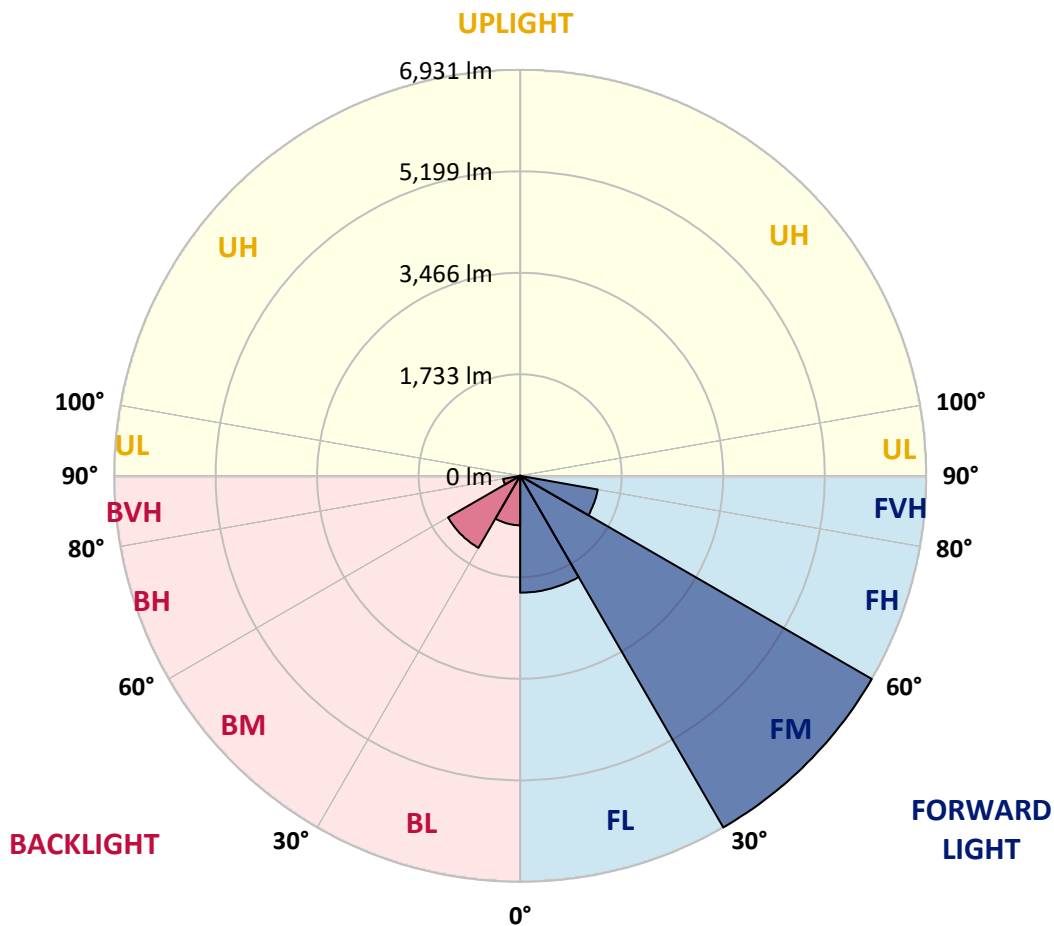
CATALOG NUMBER: GALN-SA4C-727-U-SLR-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1994.8	15.5			
FM (30°-60°)	6931.4	53.9			
FH (60°-80°)	1344.6	10.5			G1/1800
FVH (80°-90°)	11.7	0.1			G1/100
BL (0°-30°)	844.2	6.6	B2/1000		
BM (30°-60°)	1421.3	11.1	B2/2500		
BH (60°-80°)	295.7	2.3	B1/500		G1/500
BVH (80°-90°)	14.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6
2.5°	6778.3	6673.7	6541.0	6431.3	6268.1	5939.0	5849.7	5742.5	5653.3	5533.3	5365.0
5°	6163.5	6130.3	6069.1	5655.8	5357.3	4959.3	4632.8	4495.0	4313.9	4166.0	4058.8
7.5°	5694.1	5561.4	5367.5	4951.7	4474.6	4048.6	3686.3	3474.6	3234.8	3153.2	3007.8
10°	5191.5	5222.1	4936.4	4352.2	3775.6	3431.2	3206.7	3002.7	2785.8	2642.9	2436.3
12.5°	5030.8	4931.3	4711.9	3989.9	3497.6	3176.1	2903.2	2650.6	2421.0	2191.4	1992.4
15°	5135.4	4982.3	4676.2	3913.4	3283.3	2882.7	2540.9	2199.1	1987.3	1693.9	1487.3
17.5°	5510.4	5387.9	4977.2	3995.0	3173.6	2602.1	2094.5	1742.4	1418.4	1153.1	1048.5
20°	6135.4	5961.9	5446.6	4099.6	3010.3	2262.8	1699.0	1265.3	959.2	847.0	788.3
22.5°	6747.7	6653.3	6002.8	4301.2	2864.9	1961.8	1275.6	852.1	716.9	696.5	658.2
25°	7913.5	7630.4	6852.3	4666.0	2752.6	1678.6	961.8	686.2	607.2	591.9	597.0
27.5°	8607.4	8370.2	7638.0	4908.3	2627.6	1461.8	813.8	630.1	576.5	543.4	530.6
30°	9273.3	8997.8	8028.3	5051.2	2359.8	1232.2	722.0	604.6	591.9	543.4	528.1
32.5°	9786.0	9515.6	8592.1	5265.5	2250.1	1084.2	594.4	472.0	438.8	433.7	479.6
35°	10571.8	10283.5	9074.3	5382.8	2165.9	1007.7	515.3	420.9	382.7	367.4	369.9
37.5°	11304.0	11107.5	9520.7	5428.8	2076.6	984.7	461.8	377.6	344.4	334.2	331.6
40°	11916.2	11477.4	9944.2	5477.2	2038.3	941.4	428.6	344.4	321.4	306.1	306.1
42.5°	12196.8	11750.4	10418.7	5449.2	2028.1	872.5	428.6	316.3	298.5	283.2	280.6
45°	12135.6	11954.5	10630.5	5436.4	2028.1	803.6	390.3	308.7	283.2	262.8	257.7
47.5°	12293.8	12056.5	10895.8	5490.0	1987.3	755.1	329.1	324.0	267.9	242.4	237.3
50°	12321.8	12367.8	11357.5	5768.1	1898.0	693.9	257.7	318.9	257.7	219.4	214.3
52°	12505.5	12219.8	11497.8	5916.0	1803.6	648.0	216.8	273.0	247.5	204.1	199.0
52.5°	12253.0	12439.2	11531.0	5969.6	1813.8	617.4	209.2	267.9	242.4	204.1	191.3
55°	11969.8	12148.4	11395.8	6084.4	1663.3	484.7	163.3	193.9	219.4	178.6	170.9
57.5°	10403.4	10584.5	9903.4	5571.6	1354.6	341.8	135.2	145.4	193.9	165.8	158.2
60°	9247.8	9117.7	8311.5	4648.1	961.8	191.3	107.1	112.2	211.7	153.1	150.5
62.5°	8451.8	8173.7	6946.7	3589.4	586.8	127.6	84.2	86.7	163.3	142.9	142.9
65°	6252.8	5941.5	4615.0	2171.0	288.3	89.3	63.8	68.9	102.0	122.5	122.5
67.5°	3569.0	3449.1	2229.7	979.6	119.9	56.1	48.5	53.6	79.1	99.5	94.4
70°	1640.4	1472.0	857.2	206.6	56.1	38.3	38.3	43.4	63.8	74.0	68.9
72.5°	479.6	454.1	209.2	33.2	23.0	23.0	25.5	33.2	48.5	56.1	51.0
75°	35.7	23.0	15.3	10.2	10.2	15.3	20.4	33.2	48.5	53.6	43.4
77.5°	2.6	5.1	2.6	2.6	7.7	15.3	23.0	40.8	63.8	66.3	48.5
80°	2.6	2.6	0.0	2.6	7.7	15.3	25.5	45.9	71.4	76.5	40.8
82.5°	0.0	0.0	0.0	2.6	10.2	20.4	30.6	48.5	66.3	81.6	43.4
85°	0.0	0.0	0.0	2.6	15.3	28.1	35.7	12.8	7.7	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°	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6
2.5°	5484.9	5418.5	5393.0	5416.0	5408.3	5400.7	5541.0	5510.4	5505.3	5551.2	5541.0
5°	4117.5	4000.1	4321.6	4191.5	4326.7	4408.3	4423.6	4431.3	4525.7	4426.2	4556.3
7.5°	2933.8	2964.4	2961.8	3048.6	3204.2	3341.9	3423.6	3359.8	3354.7	3341.9	3285.8
10°	2344.5	2290.9	2280.7	2260.3	2308.8	2426.1	2525.6	2446.5	2390.4	2466.9	2444.0
12.5°	1915.9	1841.9	1801.1	1719.4	1722.0	1801.1	1801.1	1801.1	1857.2	1900.6	1933.7
15°	1469.4	1408.2	1408.2	1326.6	1308.7	1311.3	1352.1	1357.2	1446.5	1472.0	1484.7
17.5°	1028.1	994.9	1033.2	1066.4	1046.0	1051.1	1066.4	1071.5	1084.2	1074.0	1099.5
20°	790.8	785.7	795.9	854.6	898.0	923.5	905.6	880.1	864.8	829.1	829.1
22.5°	670.9	681.1	699.0	747.5	803.6	818.9	798.5	739.8	693.9	688.8	691.3
25°	597.0	607.2	635.2	665.8	696.5	722.0	701.6	658.2	632.7	609.7	609.7
27.5°	551.0	556.1	571.4	594.4	619.9	640.3	632.7	609.7	581.7	571.4	548.5
30°	515.3	523.0	540.8	545.9	568.9	579.1	566.3	561.2	543.4	530.6	523.0
32.5°	497.5	494.9	507.7	512.8	515.3	523.0	507.7	515.3	512.8	492.4	484.7
35°	375.0	395.4	428.6	456.6	464.3	474.5	472.0	461.8	433.7	410.7	382.7
37.5°	336.7	349.5	367.4	390.3	420.9	433.7	428.6	403.1	369.9	354.6	349.5
40°	311.2	318.9	334.2	349.5	380.1	403.1	385.2	362.3	336.7	324.0	316.3
42.5°	288.3	290.8	298.5	313.8	336.7	372.5	341.8	311.2	301.0	293.4	288.3
45°	262.8	262.8	273.0	280.6	306.1	339.3	308.7	280.6	275.5	270.4	267.9
47.5°	242.4	244.9	250.0	260.2	280.6	303.6	283.2	260.2	247.5	244.9	239.8
50°	216.8	219.4	229.6	239.8	265.3	278.1	265.3	239.8	227.0	219.4	219.4
52°	196.4	204.1	214.3	234.7	252.6	273.0	257.7	229.6	214.3	206.6	201.5
52.5°	193.9	199.0	209.2	232.2	252.6	270.4	255.1	227.0	209.2	204.1	199.0
55°	173.5	181.1	199.0	227.0	250.0	270.4	250.0	224.5	199.0	186.2	181.1
57.5°	165.8	170.9	193.9	229.6	247.5	270.4	250.0	224.5	199.0	176.0	170.9
60°	158.2	168.4	193.9	221.9	244.9	273.0	252.6	221.9	193.9	165.8	165.8
62.5°	150.5	158.2	191.3	216.8	234.7	262.8	242.4	216.8	186.2	158.2	155.6
65°	130.1	142.9	168.4	181.1	201.5	227.0	206.6	188.8	163.3	140.3	137.8
67.5°	99.5	104.6	125.0	140.3	153.1	176.0	165.8	142.9	125.0	107.1	107.1
70°	68.9	74.0	89.3	96.9	109.7	122.5	114.8	96.9	84.2	74.0	71.4
72.5°	48.5	51.0	56.1	61.2	66.3	71.4	68.9	56.1	48.5	45.9	43.4
75°	38.3	43.4	45.9	43.4	40.8	38.3	38.3	33.2	28.1	25.5	25.5
77.5°	38.3	40.8	38.3	33.2	28.1	25.5	23.0	20.4	15.3	12.8	15.3
80°	33.2	33.2	33.2	28.1	25.5	23.0	20.4	17.9	15.3	12.8	12.8
82.5°	35.7	35.7	33.2	28.1	28.1	23.0	23.0	20.4	17.9	12.8	12.8
85°	0.0	0.0	0.0	5.1	12.8	23.0	23.0	20.4	17.9	15.3	15.3
87.5°	0.0	0.0	0.0	0.0	2.6	5.1	10.2	12.8	15.3	15.3	15.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6
2.5°	5632.8	5729.8	5913.5	6097.1	6209.4	6342.0	6581.9	6709.4	6875.2	6956.9	7117.6
5°	4538.4	4768.0	4849.7	5058.8	5283.3	5507.8	5865.0	6257.9	6584.4	6808.9	7099.7
7.5°	3311.3	3364.9	3681.2	3821.6	4188.9	4597.1	5084.4	5579.3	5992.5	6359.9	6581.9
10°	2482.2	2678.7	2877.6	3145.5	3441.4	3862.4	4329.2	4875.2	5410.9	5778.3	6058.9
12.5°	1995.0	2150.6	2415.9	2704.2	3069.0	3347.1	3816.5	4357.3	5051.2	5410.9	5780.8
15°	1510.3	1709.2	2010.3	2308.8	2694.0	2987.3	3461.9	4143.0	5035.9	5530.8	5849.7
17.5°	1119.9	1255.1	1525.6	1859.8	2252.6	2665.9	3306.2	4120.0	5206.8	5796.1	6125.2
20°	857.2	903.1	1074.0	1372.5	1798.5	2339.4	3053.7	4219.5	5711.9	6441.5	6775.7
22.5°	693.9	714.3	780.6	987.3	1400.6	2053.6	2933.8	4288.4	6280.8	7214.5	7661.0
25°	604.6	599.5	642.9	732.2	1094.4	1785.8	2780.7	4548.6	6977.3	8122.7	8523.2
27.5°	551.0	551.0	571.4	635.2	908.2	1612.3	2683.8	4734.9	7678.8	8921.2	9138.1
30°	523.0	528.1	586.8	607.2	755.1	1405.7	2523.0	4923.6	8349.8	9431.4	9729.9
32.5°	484.7	464.3	451.5	502.6	635.2	1219.4	2362.3	5002.7	8893.2	10056.5	10311.6
35°	372.5	362.3	377.6	415.8	545.9	1061.3	2183.7	5092.0	9518.2	10781.0	10832.0
37.5°	336.7	334.2	344.4	377.6	459.2	923.5	2056.2	5069.0	9995.2	11380.5	11242.7
40°	311.2	311.2	318.9	347.0	410.7	826.6	1923.5	5048.6	10457.0	12054.0	11650.9
42.5°	290.8	290.8	303.6	321.4	390.3	762.8	1824.0	5020.6	10844.8	12467.3	11890.7
45°	262.8	270.4	290.8	308.7	395.4	719.4	1750.1	4913.4	10977.4	12462.2	11775.9
47.5°	242.4	252.6	273.0	298.5	357.2	706.7	1699.0	4819.0	10931.5	12156.0	11416.2
50°	219.4	232.2	260.2	303.6	303.6	681.1	1645.5	4903.2	10898.3	11918.8	11071.8
52°	204.1	214.3	250.0	295.9	265.3	627.6	1612.3	5066.5	11033.5	11888.2	10918.7
52.5°	201.5	209.2	242.4	290.8	252.6	617.4	1589.3	5104.8	11076.9	11811.6	11023.3
55°	178.6	188.8	221.9	227.0	206.6	507.7	1515.4	5191.5	10862.6	11661.1	10923.8
57.5°	168.4	173.5	196.4	186.2	178.6	382.7	1303.6	5056.3	9648.3	10357.5	10163.6
60°	155.6	160.7	183.7	145.4	150.5	267.9	979.6	4390.5	7747.7	8630.4	8979.9
62.5°	150.5	148.0	173.5	117.4	127.6	193.9	691.3	3569.0	5969.6	7104.8	7709.4
65°	132.7	130.1	125.0	99.5	109.7	150.5	413.3	2329.2	4206.8	5375.2	5706.8
67.5°	102.0	107.1	91.8	79.1	91.8	117.4	229.6	1043.4	2206.7	3224.6	3492.5
70°	71.4	76.5	74.0	68.9	81.6	96.9	132.7	357.2	913.3	1693.9	1867.4
72.5°	43.4	53.6	56.1	58.7	71.4	84.2	94.4	114.8	242.4	599.5	744.9
75°	25.5	35.7	43.4	51.0	58.7	71.4	79.1	81.6	84.2	112.2	181.1
77.5°	17.9	25.5	38.3	48.5	58.7	71.4	84.2	89.3	84.2	79.1	84.2
80°	15.3	25.5	35.7	45.9	61.2	74.0	84.2	84.2	81.6	71.4	76.5
82.5°	15.3	25.5	38.3	48.5	58.7	71.4	81.6	84.2	76.5	71.4	74.0
85°	17.9	28.1	40.8	51.0	63.8	58.7	53.6	43.4	40.8	33.2	35.7
87.5°	17.9	25.5	25.5	28.1	30.6	30.6	30.6	28.1	23.0	20.4	20.4
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°	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6	6520.6
2.5°	7125.2	7329.3	7321.7	7326.8	7296.2	7089.5	6990.0	6737.5	6808.9	6778.3
5°	7398.2	7599.7	7773.2	7752.8	7518.1	7237.5	6821.7	6428.8	6321.6	6163.5
7.5°	7125.2	7609.9	7770.7	7747.7	7400.8	7041.1	6377.8	5984.9	5798.7	5694.1
10°	6691.6	7252.8	7451.8	7492.6	7257.9	6712.0	6102.2	5472.1	5372.6	5191.5
12.5°	6444.1	6852.3	6974.7	7084.4	7002.8	6594.6	5893.1	5288.4	5150.7	5030.8
15°	6242.6	6484.9	6535.9	6660.9	6709.4	6490.0	6002.8	5487.4	5148.1	5135.4
17.5°	6428.8	6329.3	6143.1	6181.3	6334.4	6492.6	6285.9	5880.3	5551.2	5510.4
20°	6737.5	6298.7	5877.7	5972.1	6099.7	6584.4	6714.5	6428.8	6240.0	6135.4
22.5°	7092.1	6352.3	5793.6	5839.5	6081.8	6791.0	7408.4	7250.2	6898.2	6747.7
25°	7747.7	6500.2	5859.9	5890.5	6222.1	7079.3	8036.0	8153.3	7944.1	7913.5
27.5°	8388.0	6882.9	6005.3	5936.4	6293.6	7359.9	8416.1	9046.2	8678.9	8607.4
30°	8714.6	7194.1	6222.1	6104.8	6589.5	7530.9	8645.7	9627.9	9306.4	9273.3
32.5°	9214.6	7477.3	6390.5	6240.0	6755.3	7742.6	9074.3	10263.1	9951.9	9786.0
35°	9423.8	7786.0	6760.4	6584.4	7229.8	8038.5	9293.7	10829.4	10732.5	10571.8
37.5°	9826.9	8117.6	7196.7	7186.5	7803.8	8423.8	9689.1	11599.9	11582.0	11304.0
40°	9860.0	8479.9	7885.5	8206.9	8691.6	9094.7	10036.1	11814.2	12105.0	11916.2
42.5°	9911.0	9115.1	9076.8	9342.1	9758.0	9671.2	10048.8	11865.2	12309.1	12196.8
45°	9934.0	9750.3	10288.6	10778.4	10951.9	10426.4	9928.9	11768.3	12416.2	12135.6
47.5°	9750.3	10296.3	11268.2	12214.7	12265.7	10890.7	9877.9	11668.8	12480.0	12293.8
50°	9775.8	10638.1	12115.2	12962.2	12775.9	11301.4	9798.8	11607.5	12446.8	12321.8
52°	9714.6	10645.8	12235.1	12946.9	12816.8	11074.4	9663.6	11372.8	12416.2	12505.5
52.5°	9783.5	10599.8	12110.1	12957.1	12788.7	11186.6	9645.7	11502.9	12434.1	12253.0
55°	9546.2	10053.9	11377.9	11737.6	11712.1	10153.4	9097.2	11071.8	11967.2	11969.8
57.5°	8627.8	8714.6	8923.8	8916.1	8798.8	7982.4	7780.9	10181.5	10668.7	10403.4
60°	7602.3	6380.3	5816.5	5586.9	5456.8	5324.2	6882.9	9314.1	9360.0	9247.8
62.5°	6569.1	4423.6	3673.6	3609.8	3640.4	4125.1	6653.3	8969.7	8694.2	8451.8
65°	5301.2	3224.6	2668.5	2584.3	2882.7	3405.7	5385.4	6877.8	6454.3	6252.8
67.5°	3329.2	2352.1	1803.6	1645.5	2005.2	2344.5	3538.4	4321.6	3847.1	3569.0
70°	1974.6	1313.8	816.4	732.2	824.0	1250.0	1982.2	2155.7	1783.2	1640.4
72.5°	778.1	482.2	227.0	193.9	201.5	438.8	729.6	711.8	538.3	479.6
75°	209.2	145.4	79.1	63.8	53.6	81.6	117.4	76.5	28.1	35.7
77.5°	96.9	86.7	68.9	53.6	40.8	30.6	15.3	5.1	5.1	2.6
80°	84.2	74.0	63.8	53.6	40.8	25.5	12.8	2.6	2.6	2.6
82.5°	79.1	68.9	58.7	48.5	38.3	25.5	12.8	2.6	0.0	0.0
85°	33.2	43.4	48.5	45.9	40.8	25.5	12.8	2.6	0.0	0.0
87.5°	17.9	15.3	12.8	10.2	7.7	5.1	5.1	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)