

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: P533695

Luminaire Tested: **GALN-SA9A-827-U-SLL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-23)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-SLL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16848 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G1

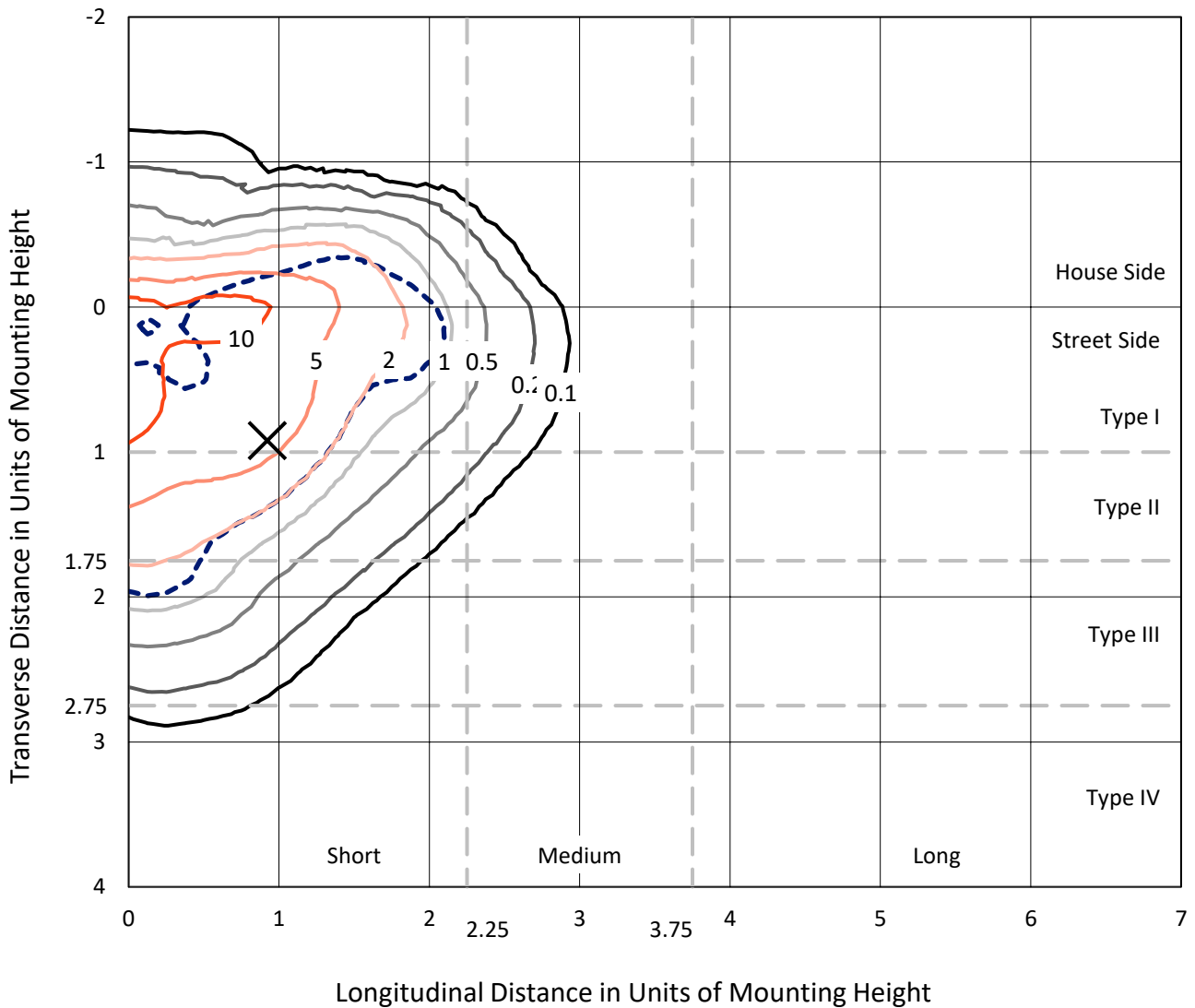
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

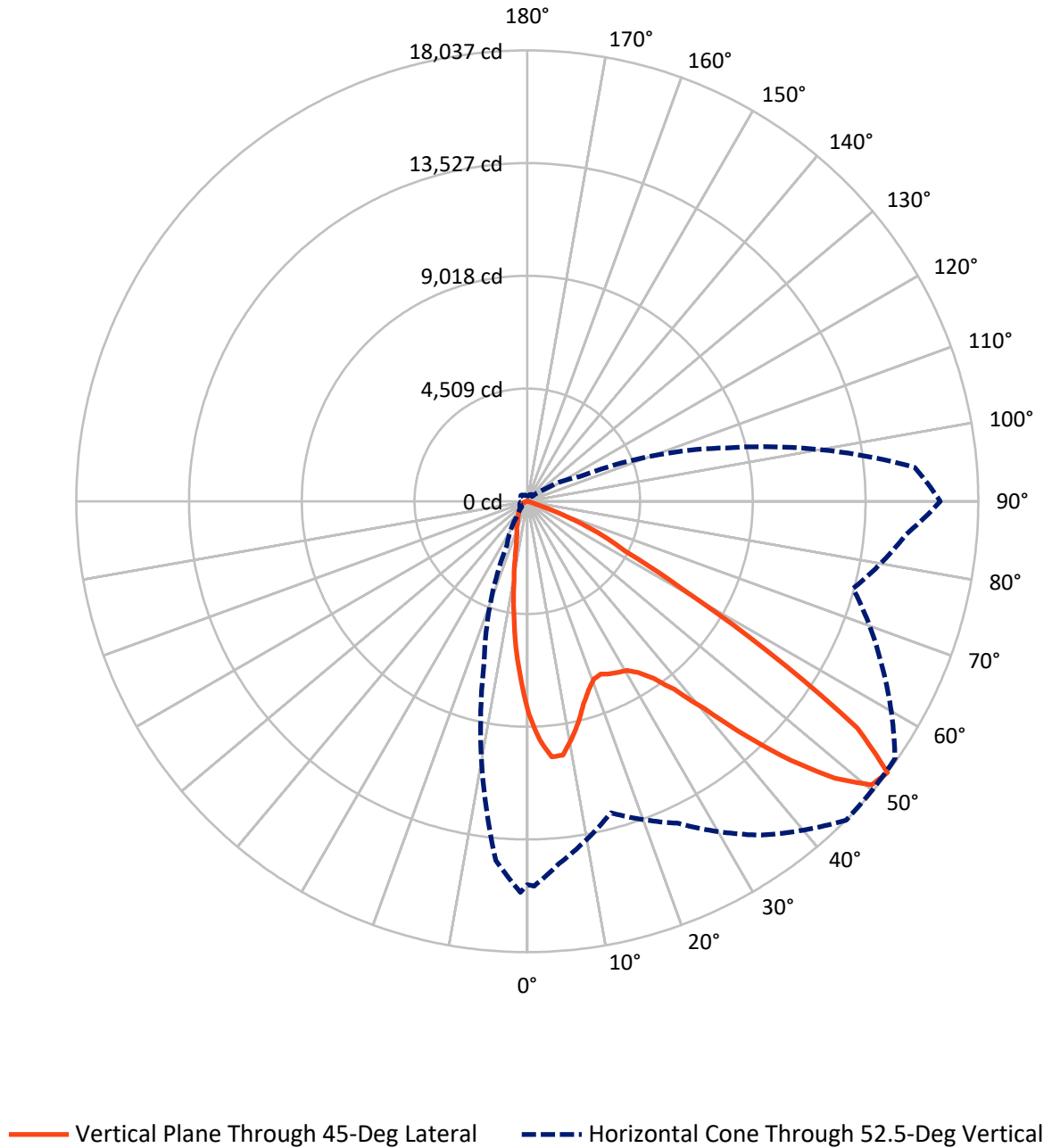
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	3419.3	0.0	3419.3
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	13428.7	0.0	13428.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	16848.0	0.0	16848.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	623.0	3.7
10°-20°	1229.2	7.3
20°-30°	1870.6	11.1
30°-40°	2795.8	16.6
40°-50°	3981.5	23.6
50°-60°	4280.0	25.4
60°-70°	1896.6	11.3
70°-80°	153.4	0.9
80°-90°	17.9	0.1
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°	16848.0	100.0
0°-180°	16848.0	100.0

Coefficient of Utilization

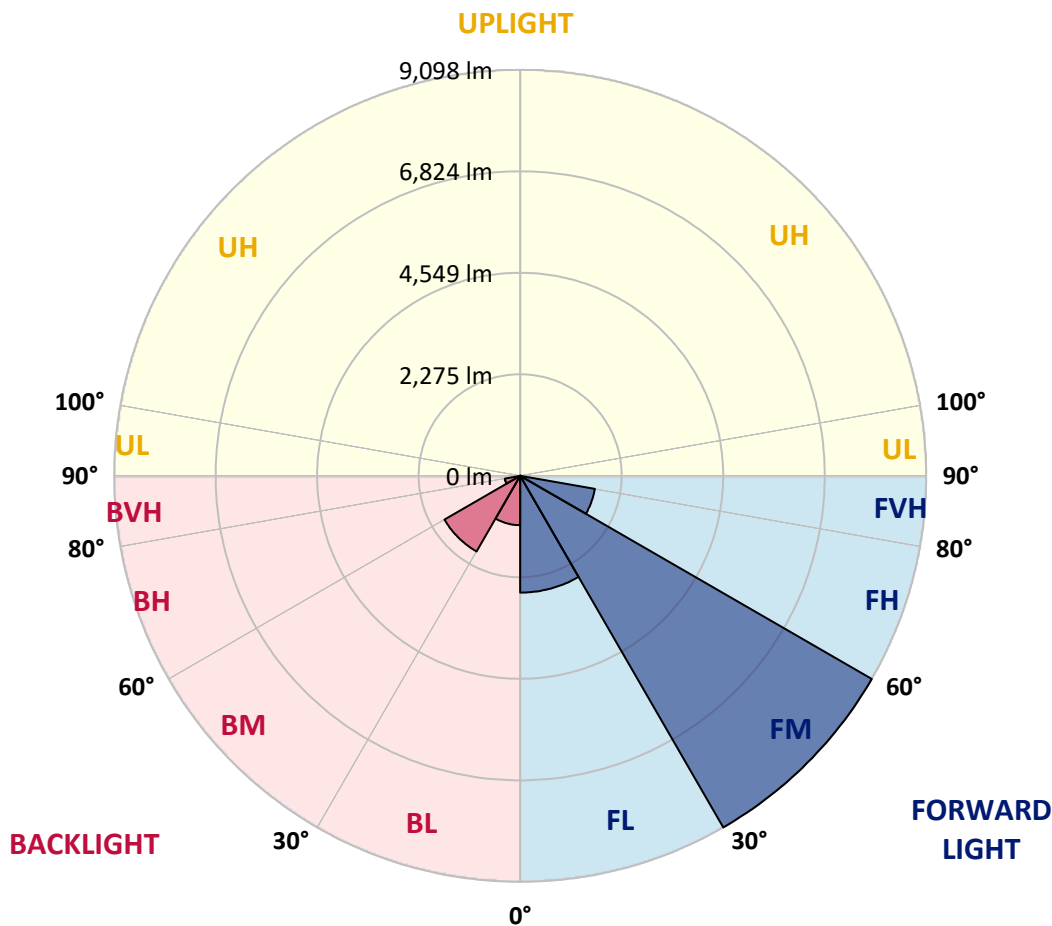


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.8	15.5			
FM (30°-60°)	9098.4	54.0			
FH (60°-80°)	1700.2	10.1			G1/1800
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	1105.9	6.6	B3/2500		
BM (30°-60°)	1958.9	11.6	B2/2500		
BH (60°-80°)	349.9	2.1	B1/500		G1/500
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7
2.5°	9039.8	9066.3	9212.1	9394.3	9490.4	9709.1	9556.7	9596.5	9513.6	9222.0	8993.4
5°	8764.7	8761.4	8947.0	9397.7	9825.1	10259.2	10272.5	10040.5	9632.9	9185.6	8546.0
7.5°	7936.3	8065.5	8257.7	8976.8	9768.8	10093.5	10249.3	9977.6	9351.3	8711.7	8019.2
10°	7310.0	7376.3	7701.0	8569.2	9149.1	9583.2	9679.3	9523.6	9043.1	8244.5	7469.1
12.5°	6948.8	6982.0	7363.0	8092.1	8705.1	9026.5	9072.9	9145.8	8801.2	8052.3	7121.1
15°	6952.1	6978.7	7492.3	8102.0	8343.9	8257.7	8410.2	8406.9	8556.0	8015.8	7412.7
17.5°	7452.5	7482.3	7946.3	8247.8	8141.8	7939.6	7929.7	8082.1	8396.9	8469.8	7853.5
20°	8314.1	8383.7	8725.0	8708.4	8111.9	7704.4	7591.7	7707.7	8440.0	8854.2	8741.5
22.5°	9473.9	9570.0	9808.6	9351.3	8247.8	7545.3	7508.8	7734.2	8725.0	9712.5	9748.9
25°	10819.2	10981.6	11097.6	10511.1	8731.6	7820.3	7648.0	8035.7	9109.4	10643.6	11031.3
27.5°	11710.6	11879.6	11853.1	11014.7	9056.3	7893.2	7747.4	8108.6	9444.0	10865.6	11700.7
30°	12406.5	12509.2	12694.8	11286.5	9381.1	8098.7	7850.2	8416.8	9553.4	11250.0	12509.2
32.5°	13218.4	13287.9	13301.2	11766.9	9881.5	8357.2	8168.3	8801.2	10037.2	11617.8	13225.0
35°	14036.8	14139.6	13924.2	12360.1	10189.6	8837.6	8698.5	9467.2	10424.9	11998.9	14013.6
37.5°	14924.9	14977.9	14480.9	12605.3	10630.4	9619.7	9543.5	10186.3	11097.6	12688.2	14888.5
40°	15670.5	15720.2	15074.0	12906.9	11094.3	10713.2	10908.7	11558.2	12012.2	13135.5	15325.9
42.5°	16084.7	16200.7	15272.8	12741.2	12025.4	11952.5	12820.7	13049.4	13072.5	13261.4	15716.9
45°	16197.4	16144.3	14944.8	12877.0	12840.6	13990.4	14779.1	15080.6	14126.3	13493.4	15816.3
47.5°	15677.1	15746.7	14461.0	12757.7	13910.9	15534.6	16555.2	17115.3	14911.7	13291.3	15571.1
50°	15256.3	15166.8	14305.2	12671.6	14199.2	16263.6	17837.6	17963.6	15634.0	13539.8	15302.7
52.5°	15339.1	15395.5	14553.8	12900.2	14205.8	16306.7	18036.5	17950.3	15657.2	13483.4	15206.6
55°	15514.7	15266.2	14447.7	12396.6	13254.8	15103.8	16008.5	15875.9	14451.0	12883.7	14971.3
57.5°	13387.3	13771.7	13284.6	11067.8	10878.9	11379.2	11362.7	11770.3	10779.5	11087.6	13629.2
60°	10865.6	10931.9	11114.2	9467.2	7528.7	7356.4	7117.8	6859.4	7253.7	9480.5	12396.6
62.5°	9556.7	9477.2	10126.7	8612.3	5315.2	4450.3	4410.5	4569.6	5596.8	9043.1	11627.8
65°	6945.5	7044.9	7515.5	6683.7	3989.7	3396.5	3336.9	3807.4	4529.8	7247.1	8874.1
67.5°	4241.5	4433.7	4476.8	4122.2	2707.3	2150.6	2064.4	2491.9	3270.6	4688.9	5202.5
70°	1958.4	2190.4	2409.1	2250.0	1567.4	884.8	835.1	1047.1	1650.2	2697.4	2760.3
72.5°	593.2	596.5	835.1	871.5	507.0	198.8	175.6	232.0	560.0	891.4	937.8
75°	43.1	46.4	112.7	129.2	96.1	49.7	53.0	63.0	119.3	198.8	149.1
77.5°	3.3	3.3	3.3	16.6	29.8	33.1	43.1	49.7	63.0	72.9	66.3
80°	3.3	0.0	3.3	13.3	23.2	33.1	39.8	46.4	49.7	56.3	49.7
82.5°	0.0	0.0	0.0	9.9	23.2	33.1	36.5	49.7	56.3	66.3	56.3
85°	0.0	0.0	0.0	9.9	23.2	36.5	33.1	16.6	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°	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7
2.5°	9033.1	8903.9	8609.0	8459.9	8108.6	8058.9	7714.3	7658.0	7542.0	7479.0	7326.6
5°	8264.4	8108.6	7628.1	7223.9	6753.3	6425.3	6173.4	5944.8	5812.2	5689.6	5746.0
7.5°	7638.1	7184.1	6650.6	5974.6	5431.2	5079.9	4695.5	4380.7	4195.1	4069.2	4099.0
10°	6982.0	6687.0	5944.8	5185.9	4529.8	4281.3	3979.8	3737.9	3476.1	3250.7	3144.7
12.5°	6776.5	6339.1	5408.0	4635.9	4138.8	3896.9	3552.3	3273.9	2939.3	2664.2	2568.1
15°	6813.0	6392.1	5262.2	4437.0	3850.5	3433.0	3022.1	2677.5	2309.6	2117.5	2018.0
17.5°	7406.1	6677.1	5358.3	4228.3	3449.6	2869.7	2362.7	1925.3	1650.2	1451.4	1408.3
20°	8135.1	7293.5	5563.7	4075.9	3121.5	2283.1	1726.4	1348.7	1120.0	1086.9	1077.0
22.5°	9202.1	8300.8	6004.4	3973.1	2720.5	1779.5	1183.0	980.9	917.9	911.3	914.6
25°	10693.3	9563.3	6484.9	3887.0	2419.0	1371.9	967.6	831.7	811.9	801.9	818.5
27.5°	11339.5	10325.5	6740.1	3701.4	2144.0	1236.0	954.3	825.1	768.8	752.2	762.2
30°	12138.1	10832.5	7141.0	3383.3	1739.7	1017.3	891.4	898.0	871.5	788.7	762.2
32.5°	13198.5	11465.4	7343.2	3158.0	1554.1	841.7	652.8	599.8	669.4	682.6	705.8
35°	13877.8	12108.3	7445.9	3025.4	1458.0	719.1	553.4	503.7	487.1	490.4	503.7
37.5°	15140.3	12976.5	7575.1	2886.2	1385.1	626.3	500.4	454.0	430.8	430.8	444.0
40°	15895.8	13665.7	7750.7	2810.0	1312.2	570.0	454.0	414.2	394.3	394.3	401.0
42.5°	16084.7	14007.0	7691.1	2783.5	1229.4	556.7	414.2	384.4	361.2	357.9	354.6
45°	16422.7	14527.3	7701.0	2753.7	1143.2	507.0	391.0	357.9	324.7	321.4	318.1
47.5°	16793.8	14901.7	7720.9	2637.7	1060.4	424.2	407.6	331.4	291.6	285.0	285.0
50°	16475.7	15199.9	7893.2	2521.7	954.3	344.6	401.0	311.5	258.5	248.5	251.8
52.5°	16515.5	15551.2	8257.7	2359.4	821.8	275.0	324.7	294.9	235.3	218.7	222.0
55°	15879.3	15180.1	8307.4	2187.0	642.9	212.1	248.5	258.5	198.8	192.2	192.2
57.5°	13669.0	12853.8	7329.9	1772.8	424.2	175.6	178.9	225.3	172.3	165.7	169.0
60°	11697.4	10318.9	5898.4	1169.7	265.1	139.2	129.2	228.6	152.4	149.1	159.1
62.5°	10663.5	8479.8	4473.5	725.7	182.3	106.0	89.5	185.6	132.5	132.5	145.8
65°	7704.4	5696.3	2601.3	381.1	129.2	82.8	66.3	106.0	109.4	112.7	119.3
67.5°	4771.7	2876.3	1096.8	185.6	86.2	56.3	43.1	66.3	72.9	72.9	79.5
70°	2356.0	1146.5	364.5	106.0	66.3	46.4	29.8	36.5	36.5	33.1	36.5
72.5°	729.0	344.6	92.8	66.3	46.4	29.8	16.6	13.3	6.6	0.0	3.3
75°	82.8	66.3	59.6	46.4	29.8	13.3	3.3	0.0	0.0	0.0	0.0
77.5°	49.7	56.3	56.3	46.4	29.8	9.9	0.0	0.0	0.0	0.0	0.0
80°	39.8	43.1	46.4	43.1	26.5	13.3	0.0	0.0	0.0	0.0	0.0
82.5°	49.7	56.3	63.0	56.3	36.5	16.6	6.6	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	9.9	3.3	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°	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7
2.5°	7263.6	7190.7	7293.5	7141.0	7137.7	7141.0	7097.9	7058.2	7121.1	7290.1	7306.7
5°	5543.8	5699.6	5749.3	5911.6	5822.2	5689.6	5716.1	5626.7	5845.4	5941.5	5865.2
7.5°	4036.1	4026.1	4360.8	4380.7	4423.8	4427.1	4420.5	4244.8	4065.9	4105.7	4225.0
10°	3131.4	2962.4	3124.8	3108.3	3214.3	3184.5	3227.5	3038.7	3101.6	3101.6	3177.8
12.5°	2551.5	2372.6	2342.8	2299.7	2342.8	2359.4	2375.9	2339.5	2445.5	2495.2	2548.2
15°	1948.5	1849.0	1822.5	1739.7	1752.9	1799.3	1839.1	1855.7	1822.5	1898.8	1905.4
17.5°	1414.9	1411.6	1428.2	1424.9	1411.6	1401.7	1398.4	1355.3	1342.0	1348.7	1375.2
20°	1073.6	1100.1	1156.5	1212.8	1242.6	1206.2	1156.5	1083.6	1053.8	1060.4	1063.7
22.5°	917.9	957.7	1033.9	1096.8	1126.7	1060.4	970.9	908.0	894.7	891.4	888.1
25°	831.7	878.1	934.5	954.3	951.0	911.3	845.0	818.5	811.9	805.2	775.4
27.5°	785.3	801.9	811.9	835.1	845.0	818.5	801.9	762.2	755.5	755.5	735.6
30°	758.8	748.9	762.2	745.6	758.8	739.0	742.3	742.3	725.7	732.3	732.3
32.5°	705.8	709.1	709.1	676.0	685.9	662.7	685.9	705.8	709.1	712.4	739.0
35°	516.9	576.6	606.4	606.4	616.3	599.8	596.5	573.3	543.4	513.6	500.4
37.5°	454.0	477.2	516.9	540.1	556.7	543.4	513.6	477.2	460.6	447.3	434.1
40°	404.3	424.2	450.7	477.2	510.3	493.7	447.3	430.8	410.9	410.9	397.6
42.5°	364.5	374.4	391.0	430.8	467.2	434.1	401.0	387.7	377.8	374.4	371.1
45°	328.1	331.4	347.9	381.1	424.2	391.0	357.9	341.3	344.6	347.9	344.6
47.5°	294.9	301.5	311.5	351.3	377.8	361.2	324.7	314.8	314.8	314.8	318.1
50°	255.2	271.7	291.6	324.7	344.6	334.7	304.9	291.6	285.0	285.0	288.3
52.5°	228.6	241.9	268.4	308.2	334.7	318.1	288.3	268.4	255.2	251.8	258.5
55°	198.8	222.0	265.1	294.9	331.4	314.8	281.7	258.5	235.3	232.0	232.0
57.5°	178.9	215.4	255.2	291.6	321.4	308.2	281.7	251.8	222.0	218.7	218.7
60°	169.0	208.8	248.5	281.7	321.4	301.5	278.4	245.2	212.1	212.1	208.8
62.5°	159.1	195.5	235.3	268.4	308.2	291.6	268.4	235.3	202.1	202.1	195.5
65°	132.5	169.0	195.5	225.3	268.4	251.8	228.6	205.4	178.9	172.3	175.6
67.5°	92.8	116.0	142.5	172.3	198.8	192.2	182.3	165.7	142.5	139.2	135.9
70°	46.4	63.0	86.2	116.0	139.2	132.5	125.9	112.7	99.4	96.1	96.1
72.5°	6.6	19.9	36.5	53.0	72.9	76.2	72.9	69.6	66.3	63.0	66.3
75°	0.0	0.0	0.0	13.3	29.8	36.5	43.1	49.7	49.7	43.1	53.0
77.5°	0.0	0.0	0.0	0.0	3.3	16.6	33.1	43.1	53.0	46.4	63.0
80°	0.0	0.0	0.0	0.0	3.3	19.9	33.1	46.4	53.0	46.4	66.3
82.5°	0.0	0.0	0.0	0.0	3.3	23.2	33.1	43.1	49.7	46.4	59.6
85°	0.0	0.0	0.0	0.0	9.9	19.9	13.3	6.6	3.3	3.3	9.9
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°	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7	8542.7
2.5°	7399.5	7634.8	7886.6	7982.7	8280.9	8506.3	8658.7	8986.8	9036.5	9039.8
5°	5944.8	6064.1	6494.9	6697.0	7141.0	7485.6	7853.5	8383.7	8738.2	8764.7
7.5°	4225.0	4556.3	4738.6	5265.5	5812.2	6352.4	6899.1	7515.5	7926.4	7936.3
10°	3399.9	3615.2	3940.0	4334.3	4794.9	5345.0	6074.0	6789.8	7207.3	7310.0
12.5°	2737.1	3114.9	3486.0	3893.6	4244.8	4659.1	5444.4	6398.8	6743.4	6948.8
15°	2107.5	2452.1	2889.5	3366.7	3764.4	4317.8	5212.5	6302.7	6882.6	6952.1
17.5°	1554.1	1862.3	2266.6	2717.2	3313.7	4099.0	5252.2	6789.8	7336.5	7452.5
20°	1116.7	1295.7	1613.8	2137.3	2896.2	3843.9	5292.0	7283.5	8115.3	8314.1
22.5°	884.8	957.7	1166.4	1630.3	2428.9	3575.5	5573.6	8227.9	9185.6	9473.9
25°	768.8	808.5	908.0	1285.7	2134.0	3549.0	6024.3	9361.2	10610.5	10819.2
27.5°	742.3	748.9	835.1	1179.7	1975.0	3373.3	6196.6	10166.4	11498.5	11710.6
30°	782.0	888.1	894.7	997.4	1680.0	3025.4	6286.1	10945.2	12250.7	12406.5
32.5°	676.0	642.9	666.1	772.1	1477.9	2823.3	6455.1	11624.5	13109.0	13218.4
35°	470.5	493.7	546.8	669.4	1292.3	2611.2	6498.2	12373.4	13924.2	14036.8
37.5°	434.1	447.3	490.4	570.0	1136.6	2491.9	6438.5	12920.1	14769.2	14924.9
40°	404.3	420.8	444.0	516.9	1020.6	2359.4	6355.7	13413.9	15286.1	15670.5
42.5°	381.1	394.3	414.2	493.7	921.2	2226.8	6239.7	14109.7	15750.0	16084.7
45°	354.6	374.4	397.6	480.5	864.9	2137.3	6153.5	14066.7	16018.4	16197.4
47.5°	328.1	361.2	387.7	447.3	848.3	2094.3	6190.0	13904.3	15799.7	15677.1
50°	301.5	344.6	391.0	371.1	808.5	2008.1	6233.1	14126.3	15279.5	15256.3
52.5°	278.4	328.1	364.5	304.9	719.1	1925.3	6650.6	14417.9	15647.3	15339.1
55°	245.2	294.9	291.6	245.2	583.2	1862.3	6978.7	14424.5	15398.8	15514.7
57.5°	222.0	261.8	228.6	205.4	430.8	1557.4	6445.1	12095.0	13181.9	13387.3
60°	205.4	255.2	172.3	162.4	281.7	1123.3	5626.7	9367.8	10477.9	10865.6
62.5°	188.9	241.9	135.9	132.5	195.5	798.6	4625.9	7840.2	9029.8	9556.7
65°	165.7	172.3	109.4	102.7	139.2	430.8	2816.6	5398.0	6750.0	6945.5
67.5°	135.9	132.5	89.5	82.8	92.8	208.8	1242.6	2704.0	3913.5	4241.5
70°	109.4	109.4	76.2	66.3	66.3	96.1	324.7	1077.0	1769.5	1958.4
72.5°	79.5	82.8	59.6	53.0	49.7	46.4	53.0	215.4	463.9	593.2
75°	69.6	72.9	59.6	46.4	36.5	29.8	23.2	19.9	26.5	43.1
77.5°	76.2	76.2	63.0	43.1	33.1	23.2	13.3	6.6	6.6	3.3
80°	96.1	99.4	82.8	56.3	39.8	26.5	16.6	6.6	3.3	3.3
82.5°	102.7	112.7	92.8	69.6	49.7	29.8	16.6	3.3	0.0	0.0
85°	26.5	43.1	72.9	63.0	49.7	29.8	16.6	3.3	0.0	0.0
87.5°	0.0	3.3	9.9	9.9	13.3	13.3	9.9	3.3	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)