

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: P455944

Luminaire Tested: **GALN-SA7A-830-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455944
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-SA7A-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA 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: 18177 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 215
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

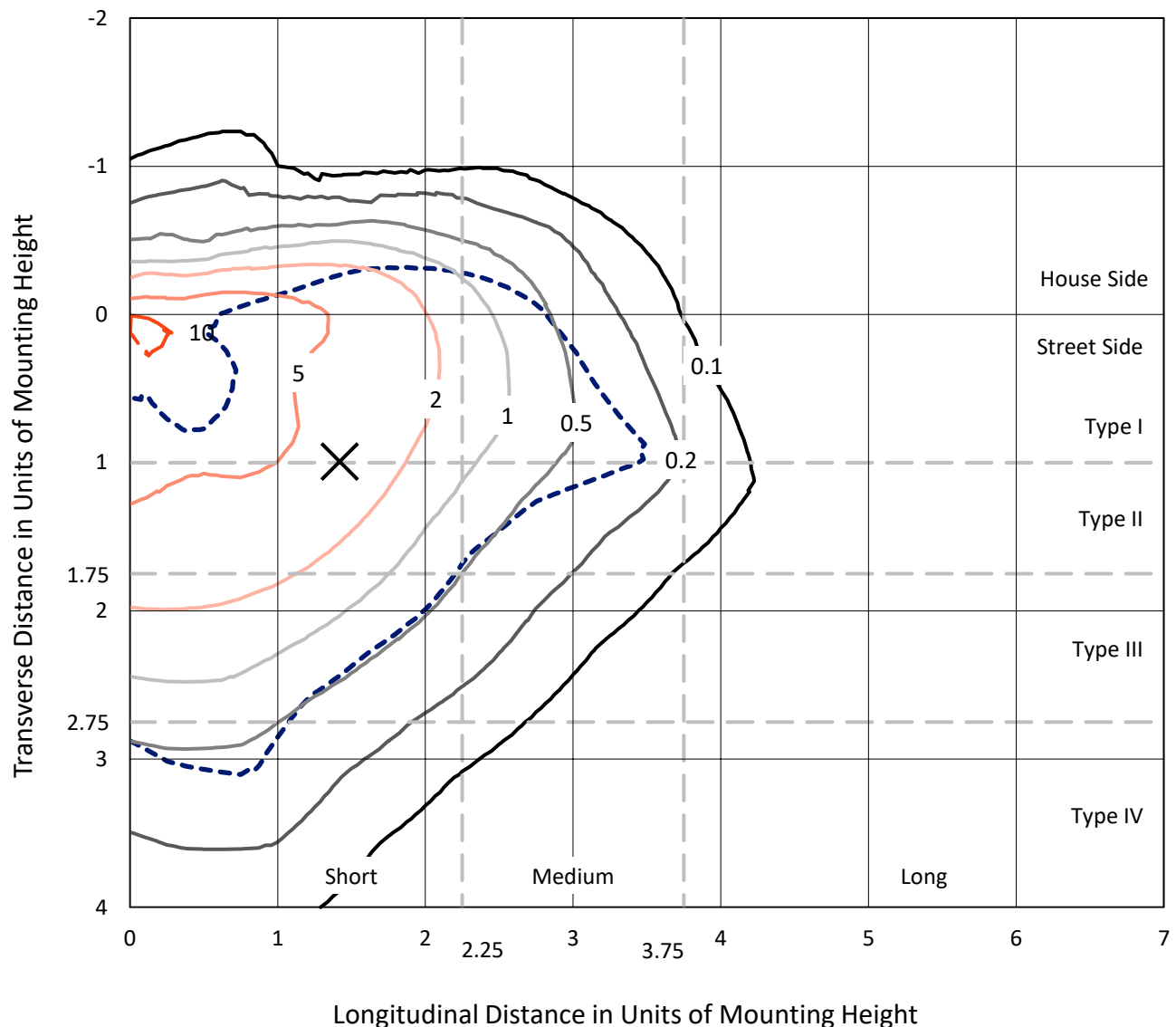


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

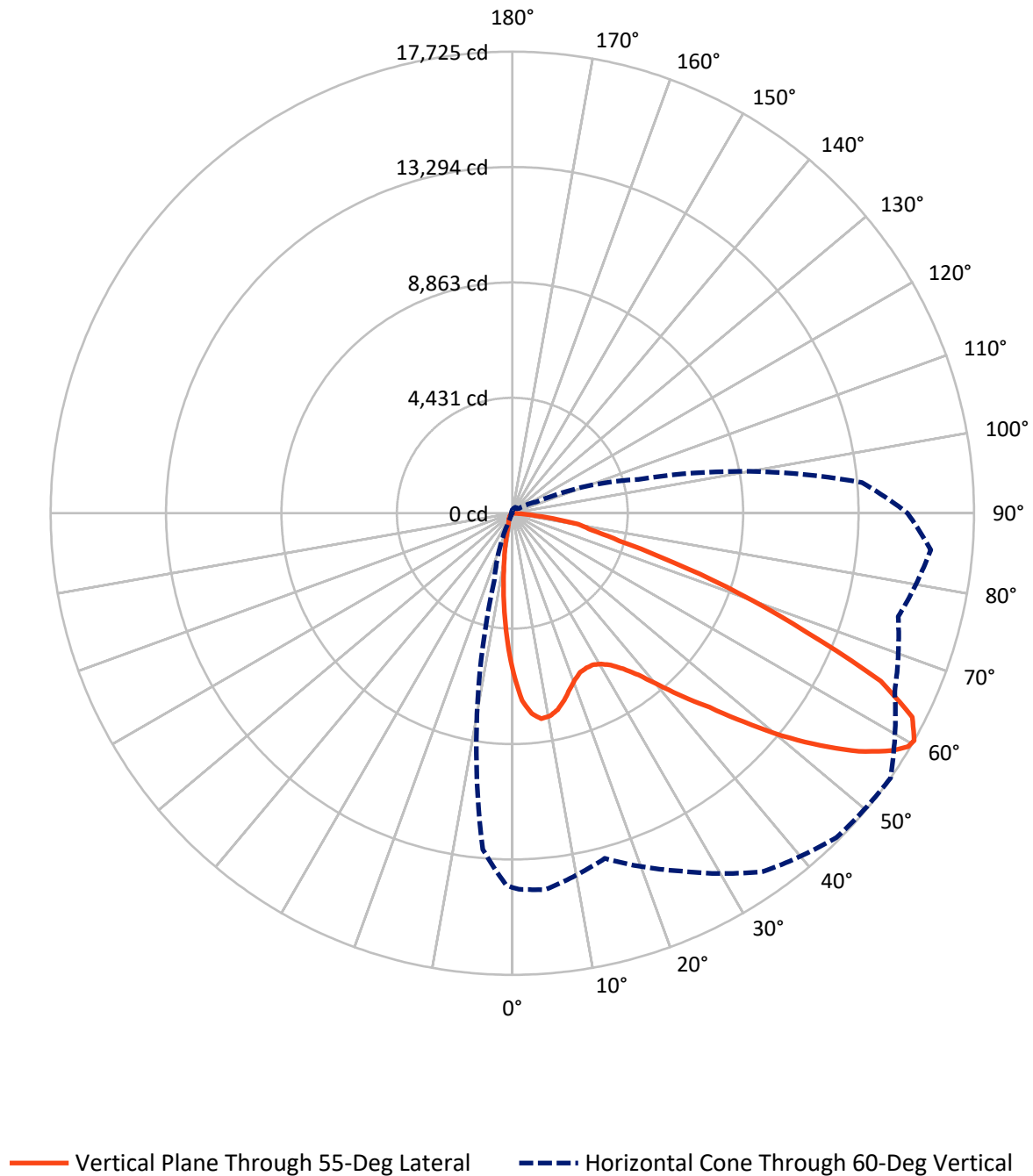


Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2697.6	0.0	2697.6
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	15479.4	0.0	15479.4
	% Fixture	85.2	0.0	85.2
Total	Lumens	18177.0	0.0	18177.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.8	2.5
10°-20°	897.5	4.9
20°-30°	1328.5	7.3
30°-40°	1980.2	10.9
40°-50°	2900.1	16.0
50°-60°	4186.8	23.0
60°-70°	4404.3	24.2
70°-80°	1811.8	10.0
80°-90°	212.2	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°	18177.0	100.0
0°-180°	18177.0	100.0

Coefficient of Utilization



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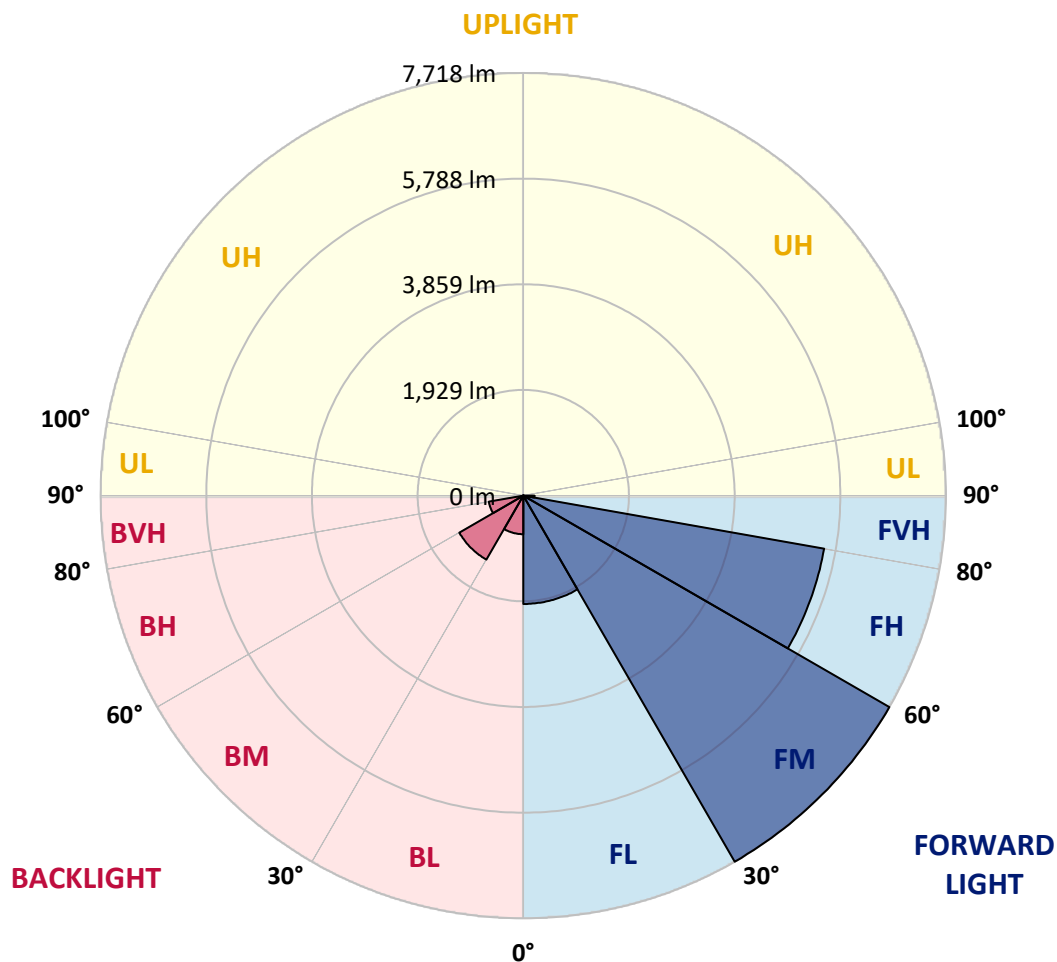
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.9	10.9			
FM	(30°-60°)	7718.0	42.5			
FH	(60°-80°)	5577.5	30.7			G3/7500
FVH	(80°-90°)	206.0	1.1			G2/225
BL	(0°-30°)	703.8	3.9	B2/1000		
BM	(30°-60°)	1349.1	7.4	B2/2500		
BH	(60°-80°)	638.5	3.5	B2/1000		G2/1000
BVH	(80°-90°)	6.2	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-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7
2.5°	6724.1	6712.9	6812.3	6974.6	7138.3	7223.6	7206.8	7199.8	7064.1	6964.8	6756.3
5°	6710.1	6767.5	6945.2	7384.5	7717.5	7878.4	7926.0	7725.9	7461.5	7078.1	6605.2
7.5°	6308.6	6379.9	6669.6	7356.5	7948.3	8298.1	8285.5	7965.1	7419.5	6826.3	6151.9
10°	5810.5	5894.4	6234.4	7068.3	7836.4	8298.1	8323.3	7917.6	7239.0	6477.9	5768.5
12.5°	5459.3	5558.7	5935.0	6799.7	7548.2	8002.9	8032.3	7738.5	7103.3	6343.6	5560.1
15°	5340.4	5434.1	5816.1	6664.0	7241.8	7486.6	7479.6	7448.9	7050.1	6375.7	5571.3
17.5°	5544.7	5621.6	6052.5	6725.5	6955.0	6929.8	6966.2	7114.5	7061.3	6645.8	5923.8
20°	6072.1	6150.5	6613.6	6914.4	6735.3	6575.8	6592.6	6840.2	7164.8	7153.6	6475.1
22.5°	6798.3	6931.2	7350.9	7281.0	6705.9	6356.2	6321.2	6643.0	7341.1	7738.5	7219.4
25°	7717.5	7851.8	8179.2	7865.8	6850.0	6304.4	6272.2	6582.8	7555.2	8309.3	8057.5
27.5°	8489.8	8591.9	8917.9	8435.2	7062.7	6326.8	6273.6	6591.2	7728.7	8794.8	8764.0
30°	9108.2	9183.8	9375.4	8701.1	7246.0	6424.7	6363.1	6714.3	7805.6	9031.3	9336.3
32.5°	9606.3	9733.6	9793.8	8985.1	7509.0	6609.4	6504.5	6950.8	7993.1	9323.7	9936.5
35°	10175.7	10322.6	10245.7	9256.5	7856.0	6897.6	6768.9	7334.1	8277.1	9593.7	10633.2
37.5°	10897.7	11067.0	10766.1	9541.9	8222.6	7331.3	7271.2	7872.8	8708.1	9979.8	11380.4
40°	11644.8	11742.7	11271.2	9888.9	8673.1	7962.3	8019.7	8673.1	9271.9	10443.0	12175.0
42.5°	12228.2	12320.6	11790.3	10179.9	9133.4	8710.9	8950.1	9638.5	9918.3	10917.3	12768.3
45°	12674.5	12752.9	12149.9	10497.5	9754.6	9795.2	10247.1	10633.2	10566.1	11206.9	13225.8
47.5°	13021.5	13088.7	12426.9	10838.9	10685.0	11121.5	11812.7	11976.4	11237.6	11520.3	13639.9
50°	13164.2	13183.8	12513.6	11274.0	11741.3	12811.6	13532.2	13432.8	12007.2	11868.6	14080.6
52.5°	13350.3	13346.1	12761.3	11688.2	12734.7	14322.7	15041.8	14816.6	12877.4	12390.5	14575.9
55°	13838.6	13844.2	13291.5	12275.8	13581.2	15542.7	16312.2	16148.5	13795.2	13272.0	15153.8
57.5°	14431.8	14452.8	14045.7	12962.7	14389.8	16426.9	17260.8	17197.9	15036.2	14252.7	15699.4
59°	14508.8	14550.7	14402.4	13446.8	14869.7	16698.4	17585.4	17647.0	15700.8	14899.1	15994.6
60°	14368.9	14438.8	14506.0	13721.1	15151.0	16796.3	17605.0	17725.3	16200.3	15338.4	16128.9
62.5°	13758.8	13869.4	14206.6	14564.7	15502.1	16491.3	16979.6	17231.4	16818.7	16492.7	16141.5
65°	12959.9	13017.3	13504.2	14714.4	14820.8	15067.0	15218.1	15541.3	16075.8	16937.6	15563.7
67.5°	11650.4	11819.7	12415.7	13845.6	12810.2	12519.2	12481.5	12159.7	13547.6	15877.1	14139.4
70°	9624.5	9700.0	10434.6	11351.0	9667.8	9220.1	9399.2	9278.9	10501.7	13667.9	11380.4
72.5°	7278.2	7448.9	8166.6	9048.0	6578.6	5998.0	6491.9	6447.1	7888.2	10984.4	7818.2
75°	5178.1	5288.6	6203.7	7080.9	4607.3	3903.5	4081.2	4247.7	5506.9	8673.1	4619.9
77.5°	3557.9	3653.1	4340.0	4682.8	3360.7	3219.4	2945.1	3106.0	3608.3	5145.9	2514.2
80°	2146.2	2142.0	2593.9	2677.9	2340.7	2718.5	2280.5	2560.4	2181.2	2202.2	973.8
82.5°	1393.5	1379.5	1586.6	1729.3	1302.6	1369.7	919.2	1325.0	1421.5	614.2	307.8
85°	624.0	650.6	762.5	1006.0	570.8	303.6	187.5	407.1	605.8	309.2	0.0
87.5°	64.4	50.4	134.3	244.8	78.4	8.4	28.0	14.0	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°	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7
2.5°	6659.8	6578.6	6336.6	6109.9	5915.4	5677.6	5523.7	5281.6	5134.7	5090.0	5097.0
5°	6392.5	6158.9	5698.6	5330.6	4920.7	4687.0	4331.6	3990.3	3805.6	3737.0	3706.2
7.5°	5832.9	5582.4	5027.0	4449.2	4009.8	3599.9	3335.5	3034.7	2829.0	2659.7	2630.3
10°	5417.4	5088.6	4400.2	3779.0	3432.0	3124.2	2859.8	2559.0	2316.9	2123.8	2070.7
12.5°	5168.3	4800.3	4032.2	3511.8	3183.0	2866.8	2522.6	2174.2	1926.6	1718.1	1621.6
15°	5123.5	4696.8	3928.7	3320.1	2914.3	2532.4	2074.9	1698.5	1443.9	1246.6	1186.4
17.5°	5393.6	4882.9	3913.3	3120.0	2563.2	2021.7	1546.0	1234.0	947.2	836.7	793.3
20°	5874.9	5211.7	3911.9	2887.8	2202.2	1557.2	1085.7	804.5	688.4	635.2	610.0
22.5°	6531.0	5659.4	3986.1	2687.7	1827.2	1148.7	775.1	640.8	573.6	530.3	520.5
25°	7332.7	6322.6	4167.9	2552.0	1540.4	901.0	639.4	548.5	492.5	472.9	464.5
27.5°	8044.9	6957.8	4368.0	2412.1	1334.8	797.5	593.2	502.3	457.5	442.1	429.5
30°	8659.1	7534.2	4464.6	2227.4	1169.7	730.3	601.6	537.3	478.5	432.3	411.3
32.5°	9171.2	7976.3	4527.5	2059.5	1029.7	597.4	475.7	415.5	389.0	372.2	358.2
35°	9812.0	8454.8	4489.7	1964.3	958.4	544.3	433.7	358.2	313.4	279.8	265.8
37.5°	10483.5	8933.3	4424.0	1886.0	926.2	505.1	412.7	340.0	291.0	256.0	237.8
40°	11178.9	9376.8	4347.0	1813.2	896.8	479.9	400.1	324.6	275.6	237.8	218.3
42.5°	11815.5	9809.2	4316.3	1765.7	849.3	484.1	390.4	317.6	260.2	221.1	204.3
45°	12330.4	10219.1	4358.2	1740.5	797.5	477.1	393.1	309.2	247.6	209.9	193.1
47.5°	12880.2	10798.3	4493.9	1715.3	747.1	443.5	414.1	307.8	242.0	202.9	184.7
50°	13519.6	11539.9	4804.5	1653.7	685.6	407.1	440.7	306.4	235.1	194.5	176.3
52.5°	14371.7	12382.1	5124.9	1546.0	596.0	372.2	421.1	302.2	221.1	184.7	166.5
55°	15137.0	13269.2	5396.4	1418.7	482.7	321.8	379.2	284.0	197.3	167.9	151.1
57.5°	15453.2	13770.0	5388.0	1242.4	386.2	282.6	312.0	260.2	172.1	148.3	134.3
59°	15337.0	13707.1	5207.5	1112.3	352.6	261.6	258.8	257.4	160.9	134.3	123.1
60°	15173.3	13477.6	5013.0	1047.9	331.6	247.6	237.8	254.6	151.1	125.9	114.7
62.5°	14546.5	12526.2	4368.0	938.8	303.6	209.9	190.3	215.5	134.3	109.1	99.3
65°	13638.5	11064.2	3697.8	908.0	295.2	173.5	158.1	153.9	114.7	92.3	83.9
67.5°	11867.2	9362.8	2995.5	887.0	298.0	145.5	138.5	116.1	95.1	77.0	71.4
70°	9501.4	7300.6	2452.6	863.3	300.8	118.9	116.1	92.3	77.0	64.4	58.8
72.5°	5772.7	4327.4	1930.8	749.9	292.4	95.1	103.5	70.0	56.0	46.2	43.4
75°	3569.1	2961.9	1197.6	583.4	193.1	70.0	72.8	43.4	37.8	29.4	29.4
77.5°	2067.9	1870.6	428.1	209.9	85.3	42.0	32.2	22.4	21.0	12.6	12.6
80°	857.7	687.0	148.3	71.4	46.2	19.6	7.0	1.4	0.0	0.0	0.0
82.5°	250.4	222.5	40.6	32.2	14.0	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°	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7
2.5°	4978.0	4931.9	4910.9	4982.2	4916.5	5000.4	4936.1	4964.0	5046.6	5083.0	5176.7
5°	3725.8	3678.3	3655.9	3763.6	3758.0	3811.2	3805.6	3854.5	3896.5	3802.8	3899.3
7.5°	2595.3	2563.2	2616.3	2700.3	2789.8	2760.4	2760.4	2694.7	2717.1	2703.1	2698.9
10°	1974.1	1863.6	1835.6	1832.8	1866.4	1873.4	1835.6	1744.7	1778.3	1788.1	1846.8
12.5°	1553.0	1467.7	1337.5	1278.8	1263.4	1276.0	1151.5	1071.7	1109.5	1087.1	1144.5
15°	1113.7	1043.7	966.8	901.0	882.8	857.7	721.9	626.8	615.6	619.8	629.6
17.5°	794.7	747.1	747.1	677.2	639.4	563.8	495.3	453.3	449.1	453.3	460.3
20°	586.2	561.0	558.2	540.1	498.1	447.7	400.1	391.8	389.0	395.9	398.7
22.5°	505.1	478.5	456.1	454.7	415.5	373.6	351.2	340.0	341.4	344.2	351.2
25°	451.9	423.9	400.1	386.2	358.2	328.8	307.8	302.2	302.2	306.4	307.8
27.5°	414.1	379.2	358.2	338.6	313.4	288.2	270.0	265.8	263.0	265.8	272.8
30°	387.6	352.6	326.0	296.6	277.0	253.2	237.8	232.3	230.9	232.3	237.8
32.5°	331.6	310.6	289.6	263.0	239.2	223.9	207.1	197.3	197.3	200.1	205.7
35°	250.4	239.2	237.8	230.9	211.3	194.5	174.9	165.1	165.1	170.7	173.5
37.5°	221.1	200.1	197.3	194.5	186.1	163.7	145.5	137.1	135.7	139.9	145.5
40°	201.5	177.7	165.1	162.3	163.7	138.5	118.9	110.5	110.5	111.9	117.5
42.5°	186.1	158.1	135.7	132.9	138.5	116.1	96.5	88.1	88.1	88.1	95.1
45°	173.5	141.3	114.7	100.7	109.1	95.1	78.4	70.0	67.2	70.0	72.8
47.5°	165.1	128.7	100.7	81.1	81.1	75.6	63.0	53.2	50.4	51.8	56.0
50°	158.1	117.5	85.3	65.8	58.8	60.2	47.6	40.6	37.8	37.8	42.0
52.5°	146.9	106.3	74.2	56.0	44.8	40.6	35.0	29.4	28.0	29.4	32.2
55°	132.9	96.5	64.4	46.2	35.0	28.0	25.2	21.0	19.6	21.0	25.2
57.5°	117.5	81.1	51.8	36.4	23.8	18.2	16.8	14.0	11.2	12.6	15.4
59°	107.7	72.8	44.8	29.4	18.2	12.6	12.6	9.8	7.0	8.4	12.6
60°	103.5	67.2	37.8	25.2	15.4	9.8	9.8	7.0	4.2	5.6	9.8
62.5°	88.1	56.0	29.4	15.4	7.0	1.4	4.2	1.4	0.0	1.4	4.2
65°	74.2	44.8	19.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	61.6	33.6	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	49.0	22.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	33.6	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	21.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.4	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°	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7	6154.7
2.5°	5182.3	5382.4	5505.5	5737.7	5975.6	6158.9	6388.3	6594.0	6679.3	6724.1
5°	3997.3	4275.7	4512.1	4866.1	5194.9	5595.0	6000.8	6479.3	6662.6	6710.1
7.5°	2805.2	3089.2	3336.9	3746.8	4215.5	4751.4	5358.6	5965.8	6233.0	6308.6
10°	2025.9	2329.5	2631.7	3041.7	3479.6	4060.2	4692.6	5443.9	5751.7	5810.5
12.5°	1278.8	1604.8	2095.9	2602.3	3065.4	3532.8	4194.5	5011.6	5351.6	5459.3
15°	741.5	985.0	1355.7	2016.1	2605.1	3223.5	3945.5	4849.3	5229.9	5340.4
17.5°	496.7	580.6	835.3	1340.3	2118.3	2938.1	3882.5	4982.2	5403.4	5544.7
20°	418.3	456.1	545.7	817.1	1631.4	2683.5	3899.3	5343.2	5895.8	6072.1
22.5°	368.0	402.9	460.3	587.6	1138.9	2367.3	3979.1	5859.5	6573.0	6798.3
25°	324.6	359.6	409.9	486.9	765.3	2002.1	4154.0	6615.0	7469.8	7717.5
27.5°	288.2	320.4	363.8	429.5	589.0	1595.0	4309.3	7350.9	8288.3	8489.8
30°	254.6	281.2	323.2	373.6	489.7	1229.8	4387.6	7994.5	8884.3	9108.2
32.5°	221.1	246.2	286.8	327.4	402.9	937.4	4333.0	8467.4	9463.6	9606.3
35°	188.9	215.5	249.0	286.8	348.4	756.9	4060.2	8999.1	10063.8	10175.7
37.5°	162.3	184.7	219.7	249.0	314.8	605.8	3730.0	9477.6	10736.8	10897.7
40°	137.1	159.5	194.5	221.1	289.6	477.1	3432.0	10009.2	11446.1	11644.8
42.5°	111.9	138.5	169.3	212.7	249.0	363.8	3071.0	10440.2	11979.2	12228.2
45°	89.5	118.9	152.5	211.3	216.9	277.0	2722.7	10775.9	12450.7	12674.5
47.5°	71.4	100.7	146.9	197.3	177.7	219.7	2524.0	11127.1	12842.4	13021.5
50°	57.4	83.9	153.9	173.5	148.3	186.1	2518.4	11518.9	13045.3	13164.2
52.5°	46.2	68.6	130.1	132.9	125.9	163.7	2669.5	11959.6	13252.4	13350.3
55°	39.2	57.4	85.3	97.9	113.3	148.3	2782.8	12638.2	13746.2	13838.6
57.5°	30.8	49.0	65.8	78.4	100.7	135.7	2798.2	13161.4	14371.7	14431.8
59°	26.6	42.0	58.8	70.0	92.3	127.3	2735.3	13193.6	14412.2	14508.8
60°	22.4	37.8	51.8	65.8	85.3	120.3	2666.7	12959.9	14261.1	14368.9
62.5°	16.8	29.4	37.8	53.2	70.0	103.5	2342.1	12144.3	13683.3	13758.8
65°	11.2	21.0	28.0	39.2	54.6	89.5	1908.4	11086.5	12790.7	12959.9
67.5°	7.0	15.4	22.4	29.4	44.8	75.6	1359.9	9506.9	11541.3	11650.4
70°	4.2	9.8	16.8	23.8	35.0	60.2	807.3	7514.6	9602.1	9624.5
72.5°	2.8	7.0	11.2	16.8	28.0	54.6	391.8	4898.3	7010.9	7278.2
75°	1.4	4.2	7.0	12.6	22.4	44.8	187.5	3272.5	5101.2	5178.1
77.5°	0.0	1.4	4.2	8.4	16.8	35.0	109.1	2149.0	3478.2	3557.9
80°	0.0	0.0	2.8	7.0	12.6	22.4	65.8	1267.6	2107.1	2146.2
82.5°	0.0	0.0	1.4	5.6	8.4	16.8	33.6	556.8	1379.5	1393.5
85°	0.0	0.0	1.4	5.6	7.0	11.2	12.6	75.6	612.8	624.0
87.5°	0.0	0.0	1.4	7.0	7.0	7.0	7.0	4.2	51.8	64.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)