

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: P652066

Luminaire Tested: **GALN-SA8A-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652066
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-SA8A-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 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: 22303.3 lumens
Efficiency: N/A
Efficacy: 91.4 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

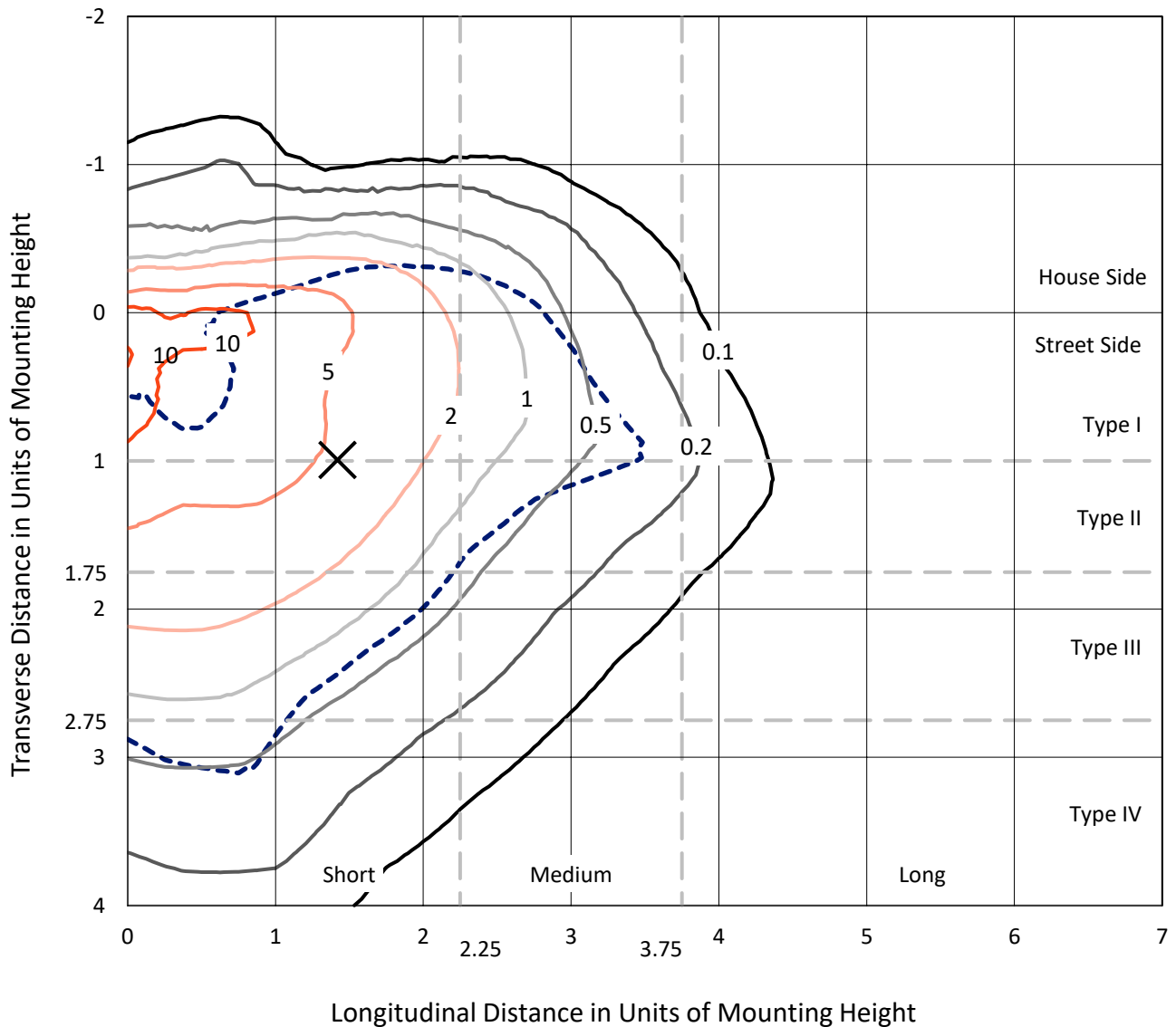
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

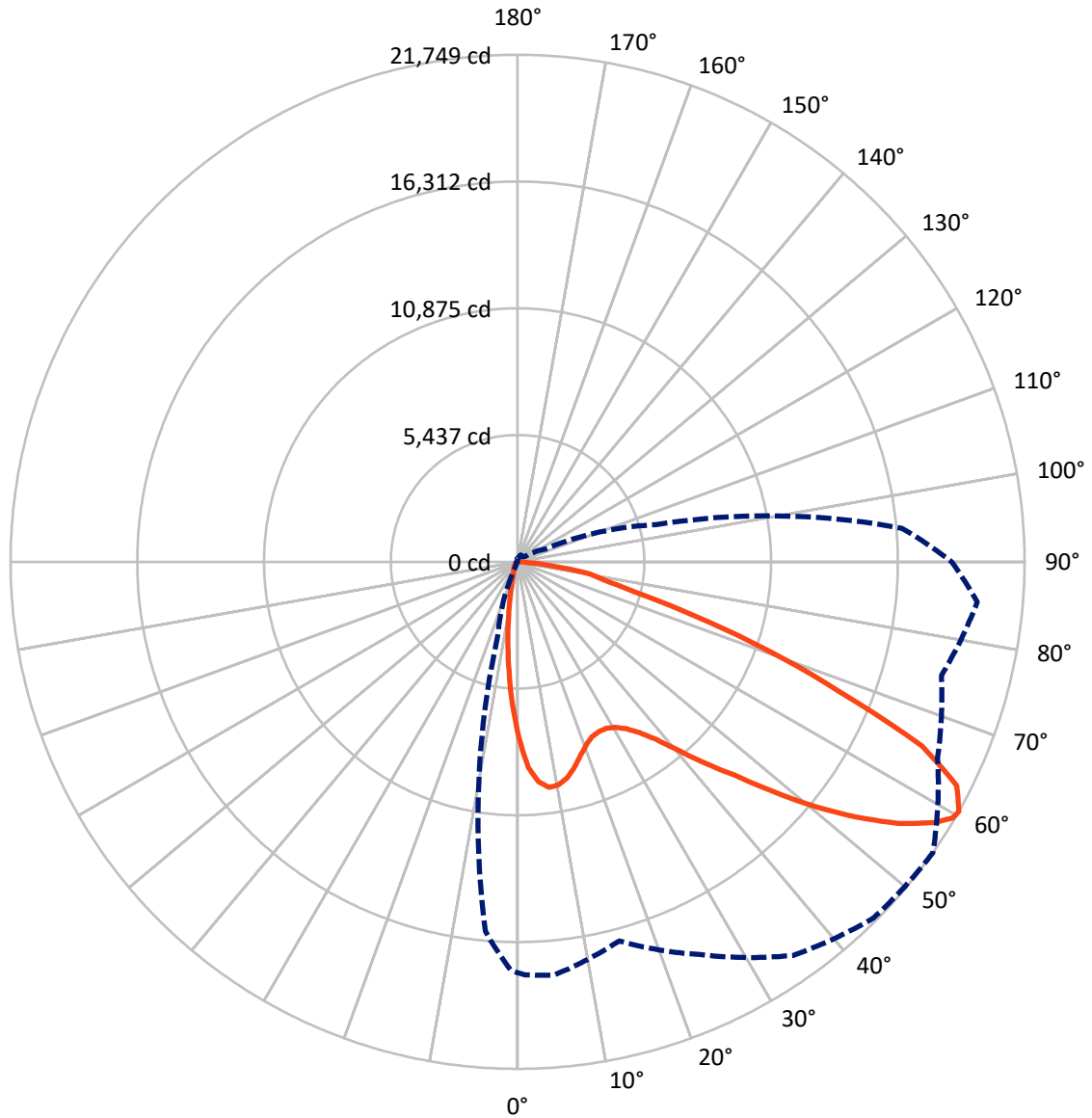
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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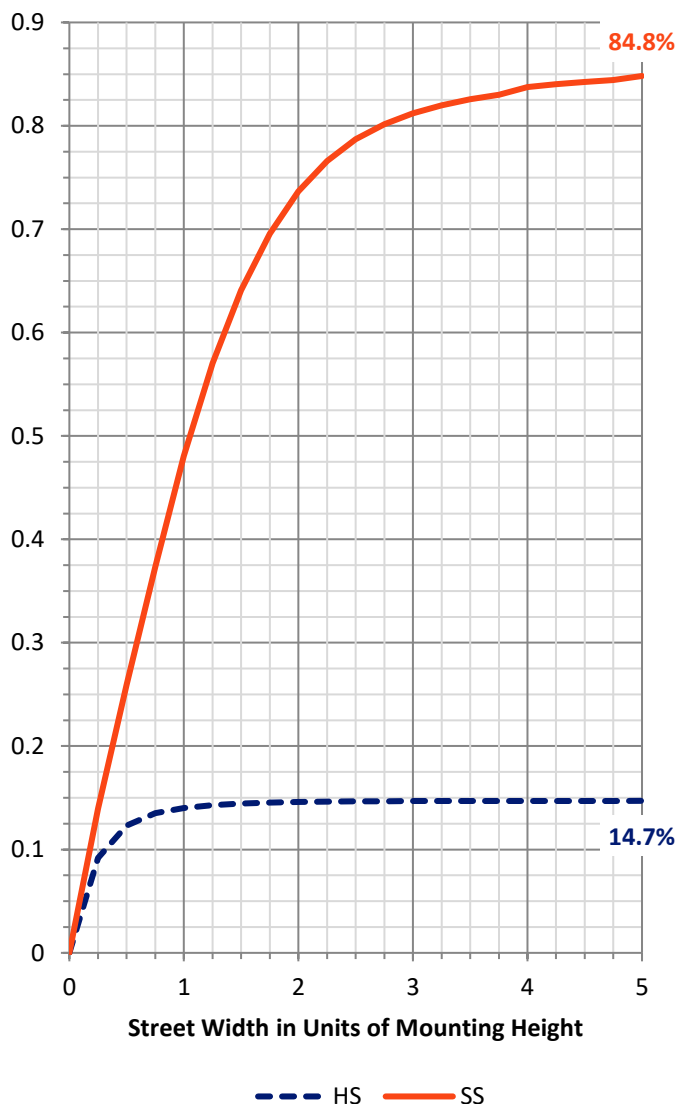
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3310.0	0.0	3310.0
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	18993.3	0.0	18993.3
	% Fixture	85.2	0.0	85.2
Total	Lumens	22303.3	0.0	22303.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.2	2.5
10°-20°	1101.2	4.9
20°-30°	1630.0	7.3
30°-40°	2429.7	10.9
40°-50°	3558.4	16.0
50°-60°	5137.2	23.0
60°-70°	5404.1	24.2
70°-80°	2223.0	10.0
80°-90°	260.4	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°	22303.3	100.0
0°-180°	22303.3	100.0

Coefficient of Utilization

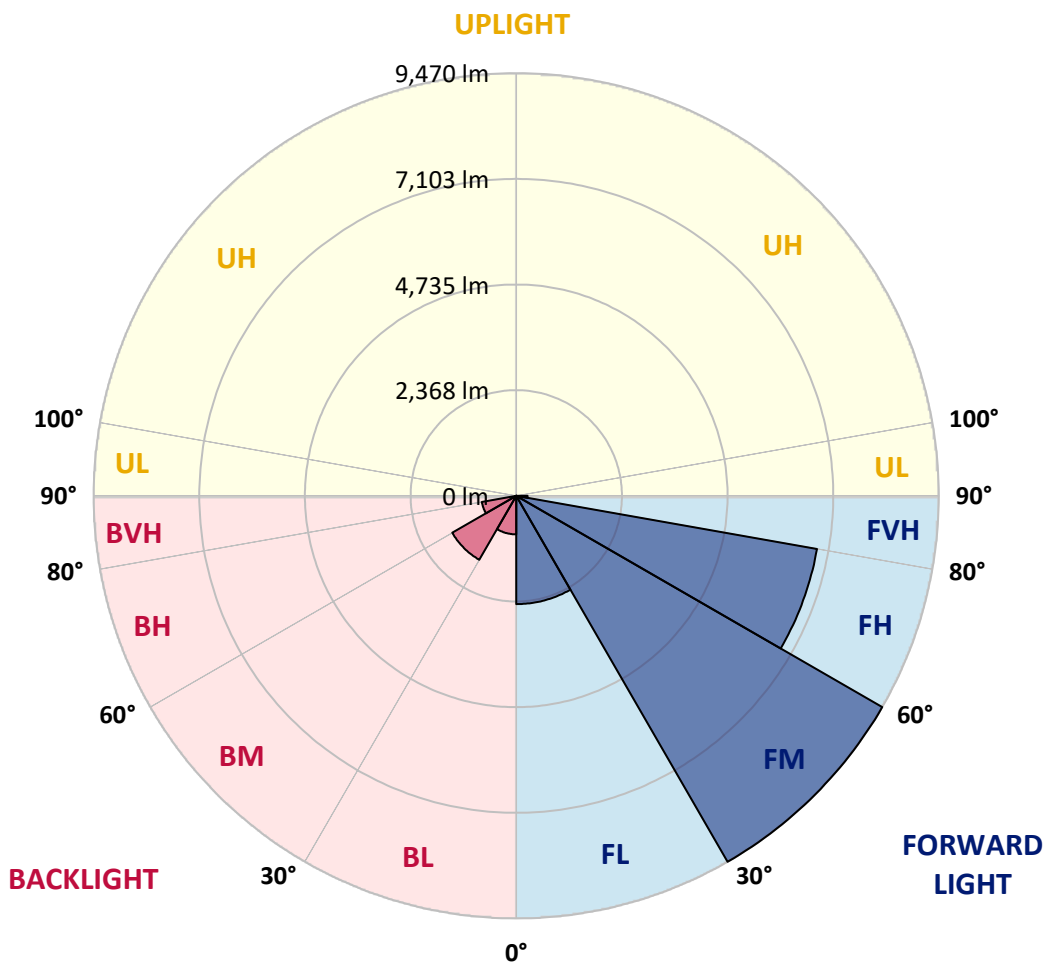


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.9	10.9			
FM (30°-60°)	9470.0	42.5			
FH (60°-80°)	6843.7	30.7			G3/7500
FVH (80°-90°)	252.7	1.1			G3/500
BL (0°-30°)	863.6	3.9	B2/1000		
BM (30°-60°)	1655.3	7.4	B2/2500		
BH (60°-80°)	783.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	7.7	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°	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8
2.5°	8250.5	8236.8	8358.7	8557.8	8758.7	8863.4	8842.8	8834.2	8667.7	8545.8	8290.0
5°	8233.4	8303.8	8521.8	9060.8	9469.4	9666.9	9725.2	9479.8	9155.3	8684.8	8104.6
7.5°	7740.6	7828.2	8183.6	9026.5	9752.7	10181.8	10166.4	9773.3	9103.7	8375.9	7548.4
10°	7129.5	7232.5	7649.7	8672.9	9615.3	10181.8	10212.8	9714.9	8882.3	7948.4	7078.0
12.5°	6698.6	6820.5	7282.3	8343.2	9261.7	9819.6	9855.7	9495.1	8715.8	7783.6	6822.3
15°	6552.7	6667.7	7136.4	8176.7	8885.8	9186.2	9177.6	9139.8	8650.5	7823.1	6836.0
17.5°	6803.4	6897.8	7426.5	8252.2	8533.8	8502.9	8547.5	8729.5	8664.2	8154.4	7268.6
20°	7450.6	7546.7	8114.9	8484.0	8264.3	8068.6	8089.2	8393.0	8791.3	8777.6	7945.0
22.5°	8341.5	8504.6	9019.6	8933.8	8228.3	7799.0	7756.1	8151.0	9007.6	9495.1	8858.3
25°	9469.4	9634.2	10035.9	9651.4	8405.0	7735.5	7696.1	8077.1	9270.3	10195.6	9886.5
27.5°	10417.0	10542.4	10942.3	10350.1	8666.0	7763.0	7697.8	8087.5	9483.1	10791.3	10753.5
30°	11175.8	11268.6	11503.7	10676.2	8890.9	7883.2	7807.6	8238.5	9577.6	11081.4	11455.7
32.5°	11787.0	11943.2	12017.0	11024.8	9213.7	8109.8	7981.0	8528.7	9807.6	11440.2	12192.1
35°	12485.7	12666.0	12571.5	11357.8	9639.4	8463.4	8305.5	8999.0	10156.1	11771.6	13047.0
37.5°	13371.5	13579.2	13210.2	11708.0	10089.1	8995.6	8921.7	9660.0	10684.8	12245.4	13963.8
40°	14288.3	14408.4	13829.9	12133.8	10641.9	9769.8	9840.2	10641.9	11376.7	12813.6	14938.9
42.5°	15004.1	15117.4	14466.8	12490.9	11206.7	10688.3	10981.9	11826.5	12169.8	13395.5	15666.7
45°	15551.8	15647.9	14908.0	12880.5	11968.9	12018.7	12573.2	13047.0	12964.7	13750.9	16228.1
47.5°	15977.5	16059.9	15247.9	13299.4	13110.6	13646.2	14494.2	14695.1	13788.7	14135.4	16736.3
50°	16152.6	16176.6	15354.3	13833.3	14406.7	15720.0	16604.1	16482.2	14732.9	14562.9	17277.1
52.5°	16380.9	16375.8	15658.2	14341.5	15625.5	17574.0	18456.4	18180.1	15800.7	15203.3	17884.8
55°	16980.0	16986.9	16308.8	15062.5	16664.2	19071.0	20015.2	19814.4	16926.8	16284.8	18593.8
57.5°	17707.9	17733.7	17234.1	15905.4	17656.5	20156.0	21179.2	21101.9	18449.6	17488.2	19263.3
59°	17802.4	17853.8	17671.9	16499.4	18245.2	20489.0	21577.5	21653.0	19265.0	18281.3	19625.5
60°	17630.7	17716.5	17798.9	16835.9	18590.3	20609.2	21601.4	21749.1	19877.9	18820.4	19790.3
62.5°	16882.2	17017.8	17431.6	17871.0	19021.2	20235.0	20834.1	21143.1	20636.6	20236.6	19805.8
65°	15902.0	15972.4	16569.8	18054.8	18185.2	18487.4	18672.7	19069.3	19725.1	20782.6	19096.8
67.5°	14295.1	14502.8	15234.1	16988.6	15718.3	15361.2	15314.9	14920.0	16623.0	19481.3	17349.2
70°	11809.3	11902.0	12803.3	13927.7	11862.6	11313.1	11532.9	11385.3	12885.7	16770.6	13963.8
72.5°	8930.3	9139.8	10020.5	11102.0	8072.0	7359.6	7965.5	7910.6	9678.8	13478.0	9593.0
75°	6353.6	6489.2	7611.9	8688.3	5653.1	4789.7	5007.7	5211.9	6757.0	10641.9	5668.6
77.5°	4365.6	4482.4	5325.3	5745.9	4123.6	3950.2	3613.7	3811.1	4427.4	6314.1	3085.0
80°	2633.4	2628.3	3182.8	3285.8	2872.1	3335.6	2798.3	3141.6	2676.4	2702.1	1194.8
82.5°	1709.8	1692.7	1946.7	2121.8	1598.2	1680.7	1127.9	1625.7	1744.1	753.6	377.7
85°	765.6	798.3	935.6	1234.3	700.4	372.6	230.0	499.6	743.4	379.4	0.0
87.5°	79.0	61.8	164.8	300.4	96.1	10.3	34.3	17.2	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°	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8
2.5°	8171.6	8072.0	7775.0	7496.9	7258.3	6966.4	6777.6	6480.6	6300.4	6245.4	6254.0
5°	7843.7	7557.0	6992.2	6540.7	6037.7	5751.0	5315.0	4896.0	4669.5	4585.4	4547.6
7.5°	7157.0	6849.7	6168.1	5459.2	4920.1	4417.1	4092.6	3723.5	3471.2	3263.5	3227.4
10°	6647.1	6243.7	5399.1	4636.9	4211.1	3833.4	3509.0	3139.9	2842.9	2606.0	2540.7
12.5°	6341.6	5890.0	4947.6	4308.9	3905.5	3517.6	3095.2	2667.8	2363.9	2108.1	1989.6
15°	6286.6	5763.0	4820.5	4073.8	3575.9	3107.2	2545.9	2084.1	1771.7	1529.6	1455.8
17.5°	6617.9	5991.4	4801.7	3828.3	3145.0	2480.7	1897.0	1514.1	1162.2	1026.6	973.4
20°	7208.5	6394.8	4799.9	3543.3	2702.1	1910.7	1332.1	987.1	844.6	779.4	748.5
22.5°	8013.6	6944.1	4890.9	3297.8	2242.0	1409.4	951.1	786.3	703.8	650.6	638.7
25°	8997.4	7757.9	5114.1	3131.3	1890.1	1105.6	784.6	673.0	604.3	580.3	569.9
27.5°	9871.2	8537.2	5359.6	2959.6	1637.8	978.5	727.9	616.3	561.4	542.4	527.1
30°	10624.8	9244.5	5478.0	2733.0	1435.2	896.1	738.2	659.3	587.1	530.5	504.7
32.5°	11253.1	9787.0	5555.3	2527.0	1263.5	733.0	583.7	509.9	477.3	456.7	439.5
35°	12039.3	10374.2	5509.0	2410.3	1176.0	667.8	532.2	439.5	384.5	343.4	326.1
37.5°	12863.3	10961.3	5428.2	2314.1	1136.4	619.7	506.5	417.1	357.1	314.2	291.8
40°	13716.5	11505.5	5333.9	2224.9	1100.4	588.9	491.0	398.3	338.2	291.8	267.8
42.5°	14497.7	12035.9	5296.1	2166.5	1042.1	594.0	478.9	389.7	319.3	271.2	250.6
45°	15129.4	12538.9	5347.6	2135.6	978.5	585.4	482.4	379.4	303.9	257.5	236.9
47.5°	15804.1	13249.6	5514.1	2104.7	916.7	544.2	508.1	377.7	297.0	248.9	226.6
50°	16588.6	14159.5	5895.2	2029.2	841.2	499.6	540.8	375.9	288.4	238.6	216.3
52.5°	17634.1	15192.9	6288.3	1897.0	731.3	456.7	516.7	370.8	271.2	226.6	204.3
55°	18573.1	16281.3	6621.4	1740.8	592.2	394.8	465.2	348.5	242.0	206.0	185.4
57.5°	18961.2	16895.9	6611.1	1524.5	473.8	346.7	382.8	319.3	211.2	182.0	164.8
59°	18818.6	16818.7	6389.7	1364.8	432.6	321.0	317.6	315.9	197.4	164.8	151.0
60°	18617.8	16537.2	6151.0	1285.8	406.9	303.9	291.8	312.4	185.4	154.5	140.8
62.5°	17848.7	15369.8	5359.6	1151.9	372.6	257.5	233.5	264.4	164.8	133.9	121.9
65°	16734.6	13575.8	4537.3	1114.2	362.2	212.9	194.0	188.8	140.8	113.3	103.0
67.5°	14561.2	11488.3	3675.5	1088.4	365.7	178.5	170.0	142.5	116.7	94.4	87.5
70°	11658.2	8957.8	3009.4	1059.2	369.1	145.9	142.5	113.3	94.4	79.0	72.1
72.5°	7083.2	5309.8	2369.1	920.1	358.8	116.7	127.1	85.9	68.7	56.7	53.2
75°	4379.3	3634.3	1469.5	715.9	236.9	85.9	89.2	53.2	46.3	36.1	36.1
77.5°	2537.3	2295.3	525.3	257.5	104.7	51.5	39.4	27.5	25.7	15.5	15.5
80°	1052.3	842.9	182.0	87.5	56.7	24.1	8.6	1.7	0.0	0.0	0.0
82.5°	307.3	273.0	49.8	39.4	17.2	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°	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8
2.5°	6108.1	6051.4	6025.7	6113.2	6032.6	6135.5	6056.5	6090.9	6192.2	6236.9	6351.8
5°	4571.6	4513.2	4485.8	4617.9	4611.1	4676.4	4669.5	4729.5	4781.1	4666.0	4784.5
7.5°	3184.5	3145.0	3210.3	3313.3	3423.1	3387.0	3387.0	3306.4	3333.9	3316.7	3311.5
10°	2422.2	2286.7	2252.4	2248.9	2290.1	2298.7	2252.4	2140.8	2182.0	2194.0	2266.1
12.5°	1905.5	1800.8	1641.2	1569.1	1550.2	1565.6	1412.9	1315.0	1361.3	1333.9	1404.3
15°	1366.5	1280.7	1186.2	1105.6	1083.2	1052.3	885.8	769.1	755.4	760.5	772.5
17.5°	975.1	916.7	916.7	830.9	784.6	691.8	607.7	556.2	551.1	556.2	564.8
20°	719.3	688.4	685.0	662.6	611.2	549.3	491.0	480.7	477.3	485.8	489.3
22.5°	619.7	587.1	559.7	557.9	509.9	458.3	430.9	417.1	418.9	422.4	430.9
25°	554.5	520.2	491.0	473.8	439.5	403.4	377.7	370.8	370.8	375.9	377.7
27.5°	508.1	465.2	439.5	415.5	384.5	353.6	331.4	326.1	322.8	326.1	334.7
30°	475.5	432.6	400.0	364.0	339.9	310.7	291.8	285.0	283.2	285.0	291.8
32.5°	406.9	381.1	355.3	322.8	293.6	274.7	254.1	242.0	242.0	245.5	252.4
35°	307.3	293.6	291.8	283.2	259.2	238.6	214.6	202.6	202.6	209.4	212.9
37.5°	271.2	245.5	242.0	238.6	228.3	200.8	178.5	168.2	166.5	171.6	178.5
40°	247.2	218.0	202.6	199.1	200.8	170.0	145.9	135.7	135.7	137.3	144.2
42.5°	228.3	194.0	166.5	163.1	170.0	142.5	118.4	108.2	108.2	108.2	116.7
45°	212.9	173.4	140.8	123.6	133.9	116.7	96.1	85.9	82.4	85.9	89.2
47.5°	202.6	157.9	123.6	99.6	99.6	92.7	77.3	65.3	61.8	63.5	68.7
50°	194.0	144.2	104.7	80.7	72.1	73.8	58.4	49.8	46.3	46.3	51.5
52.5°	180.2	130.4	91.0	68.7	54.9	49.8	42.9	36.1	34.3	36.1	39.4
55°	163.1	118.4	79.0	56.7	42.9	34.3	30.9	25.7	24.1	25.7	30.9
57.5°	144.2	99.6	63.5	44.7	29.2	22.3	20.6	17.2	13.7	15.5	18.9
59°	132.2	89.2	54.9	36.1	22.3	15.5	15.5	12.0	8.6	10.3	15.5
60°	127.1	82.4	46.3	30.9	18.9	12.0	12.0	8.6	5.1	6.9	12.0
62.5°	108.2	68.7	36.1	18.9	8.6	1.7	5.1	1.7	0.0	1.7	5.1
65°	91.0	54.9	24.1	8.6	0.0	0.0	0.0	0.0	0.0	0.0	1.7
67.5°	75.5	41.2	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	60.0	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	41.2	15.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	25.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.3	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°	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8	7551.8
2.5°	6358.7	6604.2	6755.2	7040.3	7332.1	7557.0	7838.5	8090.9	8195.6	8250.5
5°	4904.6	5246.3	5536.4	5970.8	6374.2	6865.2	7363.0	7950.1	8175.0	8233.4
7.5°	3442.0	3790.6	4094.4	4597.4	5172.5	5830.0	6575.0	7320.1	7648.0	7740.6
10°	2485.8	2858.3	3229.2	3732.1	4269.5	4981.9	5757.9	6679.7	7057.4	7129.5
12.5°	1569.1	1969.1	2571.6	3193.1	3761.3	4334.7	5146.8	6149.3	6566.4	6698.6
15°	909.9	1208.6	1663.5	2473.8	3196.6	3955.3	4841.1	5950.2	6417.1	6552.7
17.5°	609.5	712.4	1024.8	1644.6	2599.1	3605.1	4763.9	6113.2	6629.9	6803.4
20°	513.3	559.7	669.5	1002.6	2001.7	3292.7	4784.5	6556.2	7234.3	7450.6
22.5°	451.5	494.4	564.8	721.0	1397.4	2904.6	4882.3	7189.6	8065.1	8341.5
25°	398.3	441.2	503.0	597.4	939.1	2456.6	5097.0	8116.7	9165.6	9469.4
27.5°	353.6	393.2	446.3	527.1	722.8	1957.1	5287.5	9019.6	10169.9	10417.0
30°	312.4	345.1	396.5	458.3	600.8	1509.0	5383.7	9809.3	10901.1	11175.8
32.5°	271.2	302.2	352.0	401.7	494.4	1150.2	5316.6	10389.5	11611.9	11787.0
35°	231.8	264.4	305.5	352.0	427.5	928.7	4981.9	11041.9	12348.3	12485.7
37.5°	199.1	226.6	269.5	305.5	386.3	743.4	4576.8	11629.0	13174.1	13371.5
40°	168.2	195.7	238.6	271.2	355.3	585.4	4211.1	12281.4	14044.4	14288.3
42.5°	137.3	170.0	207.7	261.0	305.5	446.3	3768.2	12810.1	14698.6	15004.1
45°	109.8	145.9	187.1	259.2	266.1	339.9	3340.7	13222.2	15277.1	15551.8
47.5°	87.5	123.6	180.2	242.0	218.0	269.5	3097.0	13653.0	15757.7	15977.5
50°	70.4	103.0	188.8	212.9	182.0	228.3	3090.1	14133.8	16006.7	16152.6
52.5°	56.7	84.1	159.6	163.1	154.5	200.8	3275.5	14674.5	16260.7	16380.9
55°	48.1	70.4	104.7	120.2	139.0	182.0	3414.5	15507.1	16866.8	16980.0
57.5°	37.8	60.0	80.7	96.1	123.6	166.5	3433.5	16149.1	17634.1	17707.9
59°	32.6	51.5	72.1	85.9	113.3	156.3	3356.2	16188.7	17683.9	17802.4
60°	27.5	46.3	63.5	80.7	104.7	147.7	3272.1	15902.0	17498.5	17630.7
62.5°	20.6	36.1	46.3	65.3	85.9	127.1	2873.8	14901.1	16789.5	16882.2
65°	13.7	25.7	34.3	48.1	66.9	109.8	2341.6	13603.3	15694.2	15902.0
67.5°	8.6	18.9	27.5	36.1	54.9	92.7	1668.6	11665.1	14161.2	14295.1
70°	5.1	12.0	20.6	29.2	42.9	73.8	990.5	9220.5	11781.8	11809.3
72.5°	3.4	8.6	13.7	20.6	34.3	66.9	480.7	6010.2	8602.5	8930.3
75°	1.7	5.1	8.6	15.5	27.5	54.9	230.0	4015.4	6259.1	6353.6
77.5°	0.0	1.7	5.1	10.3	20.6	42.9	133.9	2636.9	4267.7	4365.6
80°	0.0	0.0	3.4	8.6	15.5	27.5	80.7	1555.3	2585.4	2633.4
82.5°	0.0	0.0	1.7	6.9	10.3	20.6	41.2	683.2	1692.7	1709.8
85°	0.0	0.0	1.7	6.9	8.6	13.7	15.5	92.7	751.9	765.6
87.5°	0.0	0.0	1.7	8.6	8.6	8.6	8.6	5.1	63.5	79.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)