

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: P651406

Luminaire Tested: **GALN-SA5D-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651406
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-SA5D-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 23398.3 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

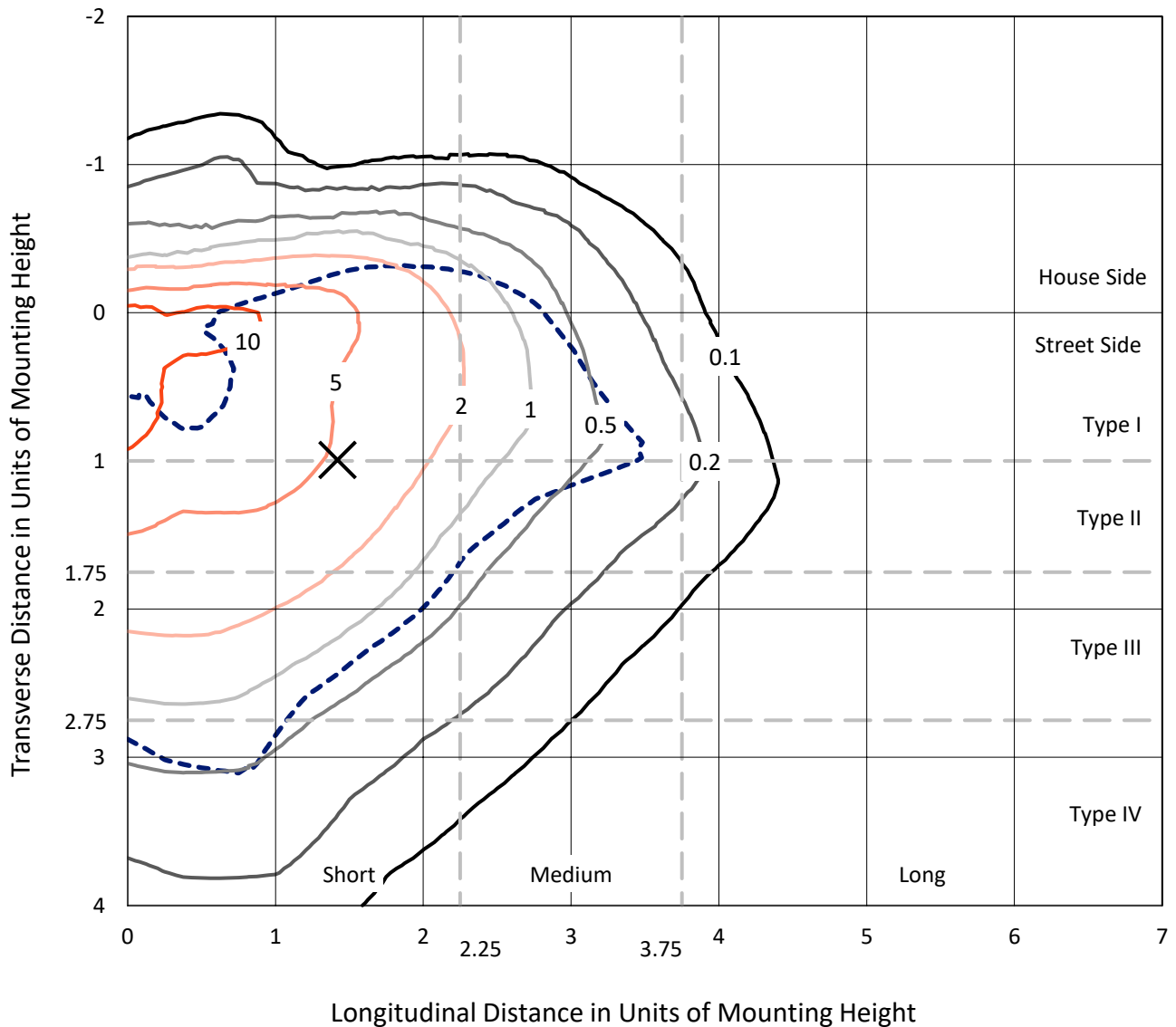
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

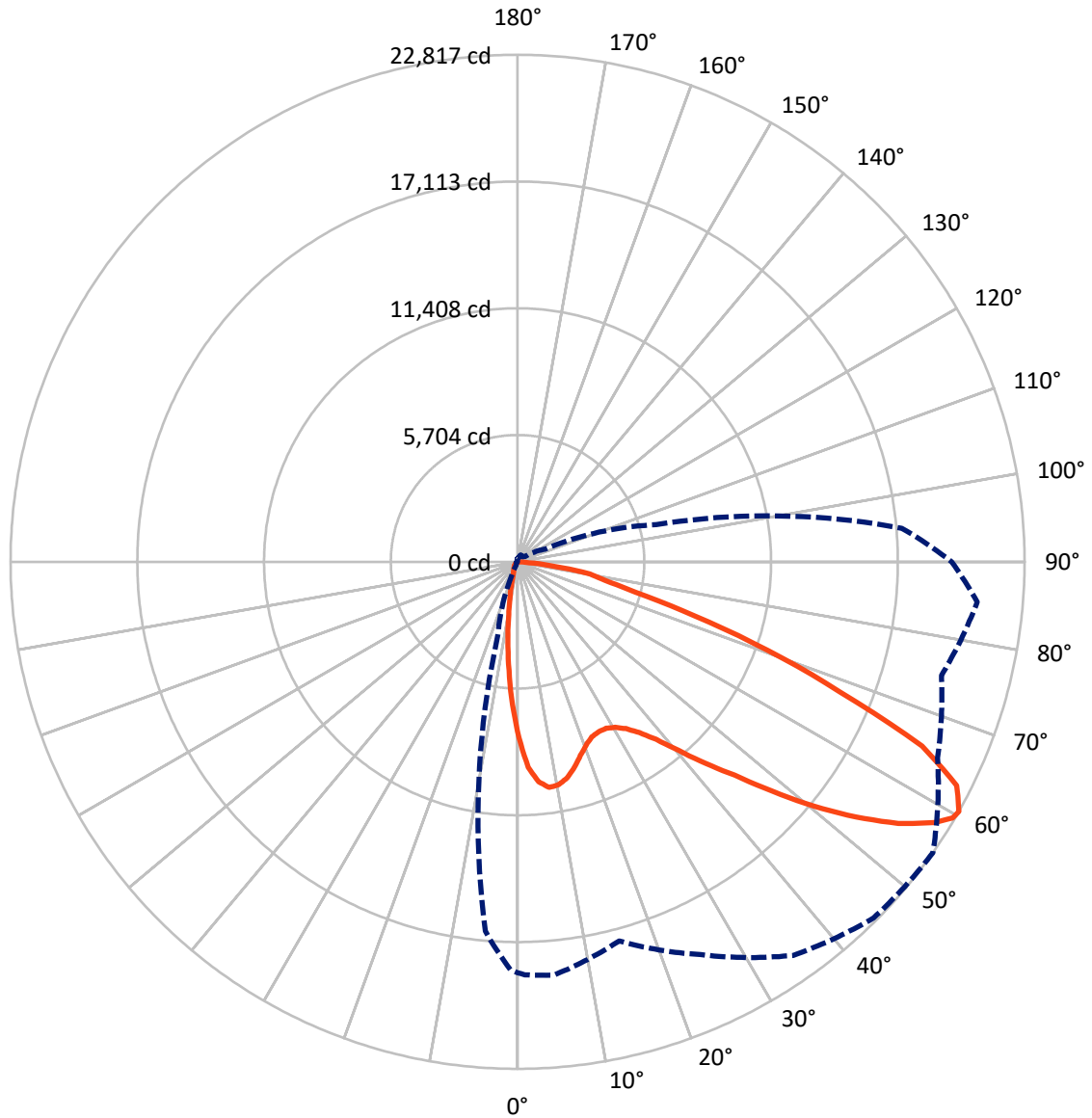
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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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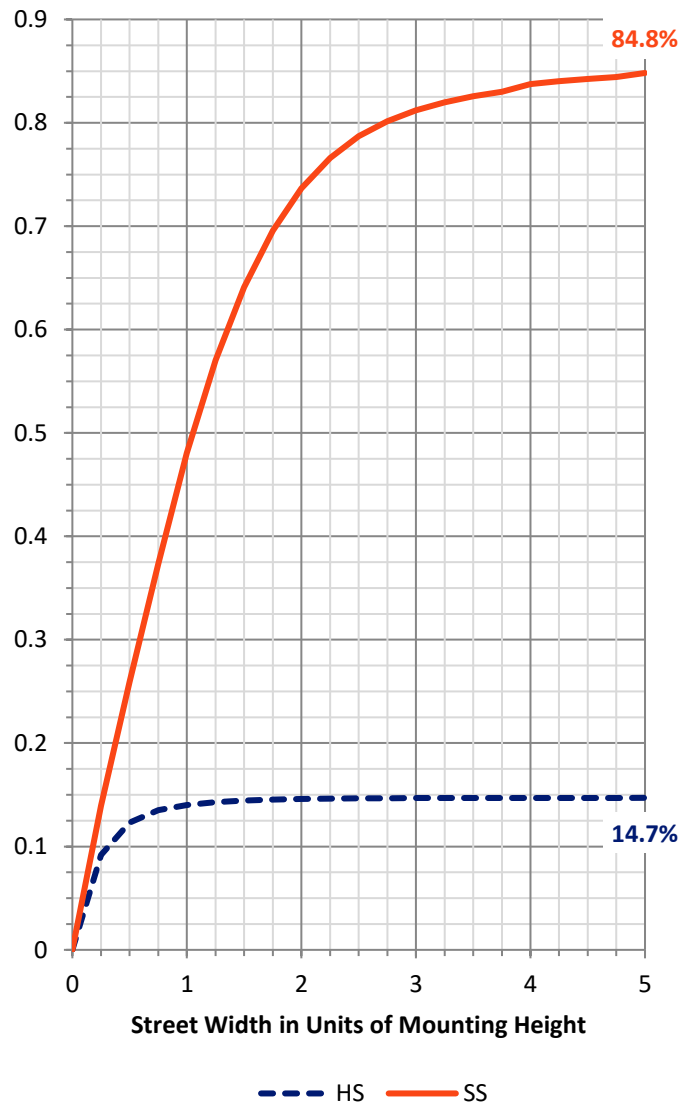
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3472.5	0.0	3472.5
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	19925.8	0.0	19925.8
	% Fixture	85.2	0.0	85.2
Total	Lumens	23398.3	0.0	23398.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.7	2.5
10°-20°	1155.3	4.9
20°-30°	1710.1	7.3
30°-40°	2549.0	10.9
40°-50°	3733.1	16.0
50°-60°	5389.4	23.0
60°-70°	5669.4	24.2
70°-80°	2332.2	10.0
80°-90°	273.1	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°	23398.3	100.0
0°-180°	23398.3	100.0

Coefficient of Utilization



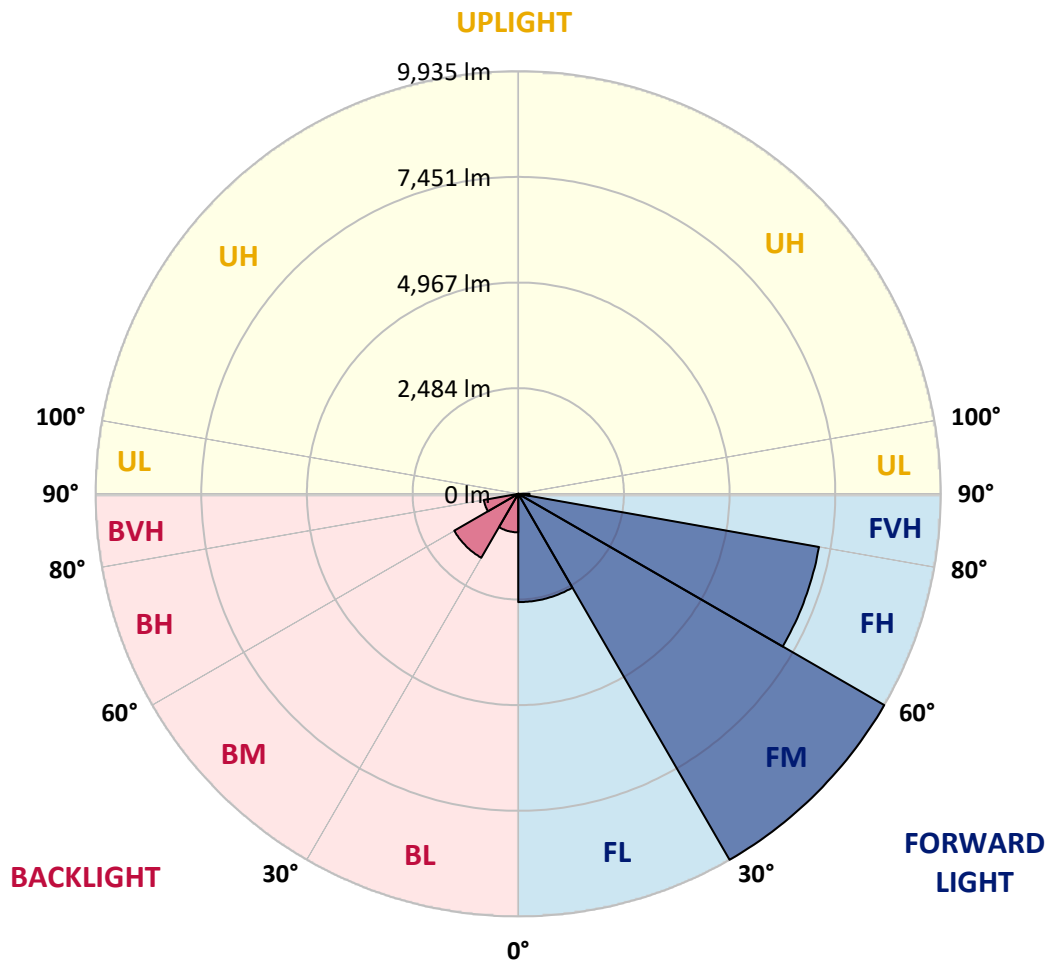
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2546.1	10.9			
FM (30°-60°)	9935.0	42.5			
FH (60°-80°)	7179.7	30.7			G3/7500
FVH (80°-90°)	265.1	1.1			G3/500
BL (0°-30°)	906.0	3.9	B2/1000		
BM (30°-60°)	1736.6	7.4	B2/2500		
BH (60°-80°)	821.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	8.0	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°	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6
2.5°	8655.6	8641.2	8769.1	8978.0	9188.7	9298.6	9277.0	9268.0	9093.2	8965.4	8697.0
5°	8637.6	8711.4	8940.2	9505.7	9934.3	10141.5	10202.7	9945.2	9604.7	9111.2	8502.5
7.5°	8120.7	8212.5	8585.3	9469.7	10231.5	10681.7	10665.6	10253.1	9550.7	8787.1	7919.0
10°	7479.5	7587.6	8025.2	9098.7	10087.4	10681.7	10714.2	10191.8	9318.4	8338.6	7425.5
12.5°	7027.5	7155.4	7639.8	8752.9	9716.4	10301.7	10339.5	9961.3	9143.7	8165.8	7157.2
15°	6874.4	6995.1	7486.8	8578.2	9322.0	9637.2	9628.2	9588.5	9075.2	8207.2	7171.5
17.5°	7137.4	7236.4	7791.1	8657.4	8952.8	8920.3	8967.2	9158.1	9089.6	8554.7	7625.4
20°	7816.3	7917.2	8513.4	8900.6	8670.0	8464.7	8486.3	8805.1	9222.9	9208.5	8335.1
22.5°	8751.0	8922.2	9462.4	9372.4	8632.2	8181.9	8136.9	8551.1	9449.8	9961.3	9293.1
25°	9934.3	10107.2	10528.6	10125.2	8817.7	8115.3	8073.9	8473.7	9725.4	10696.2	10372.0
27.5°	10928.5	11059.9	11479.6	10858.2	9091.5	8144.2	8075.7	8484.5	9948.7	11321.1	11281.4
30°	11724.5	11821.8	12068.5	11200.4	9327.4	8270.2	8190.9	8643.0	10047.8	11625.5	12018.1
32.5°	12365.6	12529.6	12607.0	11566.0	9665.9	8507.9	8372.8	8947.4	10289.1	12001.8	12790.7
35°	13098.7	13287.8	13188.7	11915.5	10112.6	8878.9	8713.3	9440.8	10654.7	12349.5	13687.6
37.5°	14028.0	14246.0	13858.7	12282.8	10584.5	9437.3	9359.8	10134.2	11209.4	12846.5	14649.3
40°	14989.7	15115.8	14508.8	12729.5	11164.4	10249.5	10323.4	11164.4	11935.2	13442.6	15672.3
42.5°	15740.7	15859.6	15177.0	13104.0	11756.9	11213.1	11521.0	12407.1	12767.3	14053.2	16435.9
45°	16315.2	16416.2	15639.9	13512.9	12556.6	12608.8	13190.5	13687.6	13601.2	14426.0	17024.9
47.5°	16761.9	16848.3	15996.5	13952.4	13754.2	14316.2	15205.9	15416.5	14465.6	14829.4	17558.0
50°	16945.6	16970.8	16108.2	14512.5	15114.0	16491.8	17419.3	17291.4	15456.2	15277.9	18125.2
52.5°	17185.2	17179.8	16426.9	15045.6	16392.7	18436.8	19362.6	19072.6	16576.4	15949.6	18762.8
55°	17813.7	17820.9	17109.5	15802.0	17482.3	20007.3	20997.8	20787.2	17757.9	17084.3	19506.7
57.5°	18577.4	18604.3	18080.2	16686.3	18523.3	21145.5	22219.0	22137.9	19355.4	18346.8	20209.1
59°	18676.3	18730.4	18539.5	17309.4	19141.0	21495.0	22636.8	22716.0	20210.8	19178.8	20589.0
60°	18496.3	18586.4	18672.8	17662.4	19503.0	21621.0	22662.0	22816.8	20853.8	19744.3	20761.9
62.5°	17711.0	17853.3	18287.4	18748.4	19955.1	21228.4	21856.9	22181.1	21649.9	21230.2	20778.2
65°	16682.7	16756.5	17383.2	18941.1	19078.0	19395.0	19589.5	20005.5	20693.5	21802.9	20034.3
67.5°	14997.0	15214.9	15982.1	17822.7	16490.0	16115.3	16066.7	15652.5	17439.1	20437.7	18200.9
70°	12389.1	12486.3	13431.9	14611.5	12444.9	11868.6	12099.1	11944.2	13518.3	17594.0	14649.3
72.5°	9368.8	9588.5	10512.4	11647.1	8468.3	7720.9	8356.7	8299.0	10154.1	14139.6	10064.0
75°	6665.5	6807.8	7985.6	9114.8	5930.7	5024.8	5253.6	5467.8	7088.7	11164.4	5946.9
77.5°	4579.9	4702.5	5586.7	6028.0	4326.0	4144.1	3791.1	3998.2	4644.8	6624.1	3236.4
80°	2762.8	2757.3	3339.0	3447.1	3013.1	3499.3	2935.6	3295.8	2807.8	2834.8	1253.5
82.5°	1793.8	1775.8	2042.4	2226.0	1676.7	1763.2	1183.3	1705.5	1829.8	790.6	396.2
85°	803.2	837.5	981.5	1294.9	734.8	390.8	241.4	524.1	779.9	398.0	0.0
87.5°	82.8	64.8	172.9	315.2	100.8	10.8	36.0	18.0	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°	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6
2.5°	8572.7	8468.3	8156.7	7864.9	7614.7	7308.5	7110.3	6798.8	6609.7	6552.1	6561.1
5°	8228.8	7928.0	7335.5	6861.8	6334.2	6033.3	5575.9	5136.5	4898.7	4810.4	4770.8
7.5°	7508.4	7186.0	6471.0	5727.2	5161.6	4634.0	4293.6	3906.4	3641.6	3423.7	3385.9
10°	6973.5	6550.2	5664.1	4864.5	4417.9	4021.7	3681.2	3294.0	2982.4	2733.9	2665.5
12.5°	6652.9	6179.2	5190.5	4520.5	4097.3	3690.2	3247.2	2798.8	2479.9	2211.7	2087.4
15°	6595.3	6045.9	5057.2	4273.8	3751.4	3259.8	2670.8	2186.4	1858.6	1604.7	1527.3
17.5°	6942.9	6285.5	5037.4	4016.2	3299.4	2602.5	1990.1	1588.5	1219.3	1077.0	1021.1
20°	7562.4	6708.7	5035.6	3717.3	2834.8	2004.5	1397.6	1035.6	886.1	817.6	785.2
22.5°	8407.1	7285.1	5131.0	3459.7	2352.1	1478.6	997.8	824.9	738.4	682.6	669.9
25°	9439.0	8138.7	5365.2	3285.0	1982.9	1159.8	823.1	706.0	633.9	608.7	598.0
27.5°	10355.7	8956.4	5622.8	3104.9	1718.2	1026.6	763.6	646.6	589.0	569.1	552.9
30°	11146.4	9698.4	5747.0	2867.2	1505.6	940.2	774.4	691.6	615.9	556.5	529.5
32.5°	11805.5	10267.5	5828.0	2651.1	1325.5	769.0	612.3	534.9	500.6	479.0	461.0
35°	12630.4	10883.5	5779.4	2528.6	1233.7	700.6	558.3	461.0	403.4	360.2	342.2
37.5°	13494.9	11499.4	5694.7	2427.7	1192.3	650.2	531.3	437.7	374.6	329.6	306.2
40°	14390.0	12070.3	5595.7	2334.1	1154.4	617.7	515.1	417.8	354.8	306.2	281.0
42.5°	15209.5	12626.8	5556.1	2272.9	1093.2	623.2	502.5	408.8	335.0	284.6	263.0
45°	15872.2	13154.5	5610.1	2240.4	1026.6	614.2	506.1	398.0	318.7	270.1	248.5
47.5°	16580.0	13900.1	5784.8	2208.0	961.8	571.0	533.1	396.2	311.6	261.1	237.8
50°	17403.1	14854.7	6184.6	2128.8	882.5	524.1	567.3	394.4	302.6	250.4	226.9
52.5°	18499.9	15938.9	6597.1	1990.1	767.2	479.0	542.1	389.0	284.6	237.8	214.3
55°	19485.0	17080.7	6946.5	1826.2	621.3	414.2	488.0	365.6	254.0	216.1	194.5
57.5°	19892.1	17725.4	6935.6	1599.3	497.1	363.8	401.7	335.0	221.5	190.9	172.9
59°	19742.6	17644.4	6703.4	1431.8	453.9	336.8	333.2	331.4	207.1	172.9	158.5
60°	19531.9	17349.1	6453.0	1349.0	426.8	318.7	306.2	327.8	194.5	162.1	147.7
62.5°	18725.0	16124.3	5622.8	1208.4	390.8	270.1	244.9	277.4	172.9	140.4	127.8
65°	17556.1	14242.3	4760.1	1168.8	380.0	223.3	203.5	198.1	147.7	118.8	108.1
67.5°	15276.1	12052.3	3855.9	1141.8	383.6	187.3	178.3	149.4	122.4	99.1	91.8
70°	12230.6	9397.6	3157.1	1111.2	387.2	153.1	149.4	118.8	99.1	82.8	75.6
72.5°	7430.9	5570.5	2485.4	965.3	376.4	122.4	133.3	90.1	72.1	59.5	55.8
75°	4594.4	3812.8	1541.6	751.0	248.5	90.1	93.7	55.8	48.6	37.8	37.8
77.5°	2661.8	2408.0	551.1	270.1	109.8	54.0	41.5	28.8	27.0	16.2	16.2
80°	1104.0	884.3	190.9	91.8	59.5	25.2	9.0	1.8	0.0	0.0	0.0
82.5°	322.4	286.4	52.2	41.5	18.0	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°	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6
2.5°	6408.0	6348.5	6321.5	6413.4	6328.7	6436.8	6353.9	6389.9	6496.2	6543.1	6663.7
5°	4796.1	4734.8	4706.0	4844.7	4837.5	4905.9	4898.7	4961.7	5015.8	4895.1	5019.4
7.5°	3340.9	3299.4	3367.9	3475.9	3591.2	3553.4	3553.4	3468.7	3497.6	3479.6	3474.2
10°	2541.2	2399.0	2362.9	2359.3	2402.6	2411.6	2362.9	2245.8	2289.0	2301.6	2377.3
12.5°	1999.1	1889.2	1721.8	1646.1	1626.3	1642.5	1482.3	1379.6	1428.2	1399.3	1473.2
15°	1433.6	1343.6	1244.5	1159.8	1136.4	1104.0	929.3	806.9	792.5	797.9	810.5
17.5°	1023.0	961.8	961.8	871.7	823.1	725.8	637.6	583.5	578.1	583.5	592.6
20°	754.6	722.2	718.6	695.2	641.2	576.3	515.1	504.3	500.6	509.6	513.3
22.5°	650.2	615.9	587.1	585.3	534.9	480.9	452.0	437.7	439.4	443.0	452.0
25°	581.7	545.7	515.1	497.1	461.0	423.3	396.2	389.0	389.0	394.4	396.2
27.5°	533.1	488.0	461.0	435.8	403.4	371.0	347.6	342.2	338.6	342.2	351.2
30°	498.9	453.9	419.7	381.8	356.6	326.0	306.2	299.0	297.1	299.0	306.2
32.5°	426.8	399.8	372.8	338.6	308.0	288.1	266.5	254.0	254.0	257.5	264.7
35°	322.4	308.0	306.2	297.1	272.0	250.4	225.1	212.5	212.5	219.8	223.3
37.5°	284.6	257.5	254.0	250.4	239.5	210.8	187.3	176.5	174.7	180.1	187.3
40°	259.4	228.8	212.5	208.9	210.8	178.3	153.1	142.3	142.3	144.1	151.3
42.5°	239.5	203.5	174.7	171.1	178.3	149.4	124.3	113.5	113.5	113.5	122.4
45°	223.3	181.9	147.7	129.7	140.4	122.4	100.8	90.1	86.5	90.1	93.7
47.5°	212.5	165.7	129.7	104.5	104.5	97.2	81.1	68.5	64.8	66.6	72.1
50°	203.5	151.3	109.8	84.7	75.6	77.5	61.2	52.2	48.6	48.6	54.0
52.5°	189.1	136.9	95.5	72.1	57.6	52.2	45.0	37.8	36.0	37.8	41.5
55°	171.1	124.3	82.8	59.5	45.0	36.0	32.4	27.0	25.2	27.0	32.4
57.5°	151.3	104.5	66.6	46.8	30.6	23.4	21.6	18.0	14.4	16.2	19.8
59°	138.7	93.7	57.6	37.8	23.4	16.2	16.2	12.6	9.0	10.8	16.2
60°	133.3	86.5	48.6	32.4	19.8	12.6	12.6	9.0	5.4	7.2	12.6
62.5°	113.5	72.1	37.8	19.8	9.0	1.8	5.4	1.8	0.0	1.8	5.4
65°	95.5	57.6	25.2	9.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8
67.5°	79.2	43.2	12.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	63.1	28.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	43.2	16.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	27.0	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.8	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°	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6	7922.6
2.5°	6670.9	6928.4	7086.9	7385.9	7692.0	7928.0	8223.4	8488.1	8598.0	8655.6
5°	5145.5	5503.8	5808.2	6263.9	6687.1	7202.2	7724.5	8340.4	8576.3	8637.6
7.5°	3611.0	3976.6	4295.4	4823.1	5426.4	6116.2	6897.8	7679.4	8023.5	8120.7
10°	2607.9	2998.7	3387.7	3915.4	4479.1	5226.5	6040.6	7007.7	7403.9	7479.5
12.5°	1646.1	2065.7	2697.9	3349.9	3946.0	4547.5	5399.4	6451.1	6888.8	7027.5
15°	954.5	1267.9	1745.2	2595.2	3353.5	4149.5	5078.8	6242.2	6732.1	6874.4
17.5°	639.3	747.4	1075.2	1725.4	2726.7	3782.1	4997.8	6413.4	6955.5	7137.4
20°	538.5	587.1	702.4	1051.8	2100.0	3454.3	5019.4	6878.0	7589.4	7816.3
22.5°	473.7	518.7	592.6	756.4	1466.0	3047.3	5122.0	7542.6	8461.1	8751.0
25°	417.8	462.9	527.7	626.7	985.1	2577.2	5347.2	8515.1	9615.6	9934.3
27.5°	371.0	412.4	468.3	552.9	758.2	2053.1	5547.1	9462.4	10669.1	10928.5
30°	327.8	362.0	416.0	480.9	630.3	1583.1	5647.9	10290.9	11436.3	11724.5
32.5°	284.6	317.0	369.2	421.4	518.7	1206.7	5577.7	10899.6	12182.0	12365.6
35°	243.1	277.4	320.6	369.2	448.4	974.4	5226.5	11584.0	12954.6	13098.7
37.5°	208.9	237.8	282.7	320.6	405.2	779.9	4801.4	12200.0	13820.9	14028.0
40°	176.5	205.3	250.4	284.6	372.8	614.2	4417.9	12884.4	14734.0	14989.7
42.5°	144.1	178.3	217.9	273.7	320.6	468.3	3953.2	13439.1	15420.2	15740.7
45°	115.3	153.1	196.3	272.0	279.1	356.6	3504.8	13871.3	16027.1	16315.2
47.5°	91.8	129.7	189.1	254.0	228.8	282.7	3249.0	14323.3	16531.4	16761.9
50°	73.8	108.1	198.1	223.3	190.9	239.5	3241.8	14827.7	16792.5	16945.6
52.5°	59.5	88.2	167.5	171.1	162.1	210.8	3436.3	15394.9	17059.1	17185.2
55°	50.5	73.8	109.8	126.1	145.9	190.9	3582.2	16268.5	17694.8	17813.7
57.5°	39.6	63.1	84.7	100.8	129.7	174.7	3602.0	16942.0	18499.9	18577.4
59°	34.2	54.0	75.6	90.1	118.8	163.9	3520.9	16983.4	18552.1	18676.3
60°	28.8	48.6	66.6	84.7	109.8	154.9	3432.7	16682.7	18357.6	18496.3
62.5°	21.6	37.8	48.6	68.5	90.1	133.3	3014.9	15632.7	17613.8	17711.0
65°	14.4	27.0	36.0	50.5	70.2	115.3	2456.6	14271.1	16464.8	16682.7
67.5°	9.0	19.8	28.8	37.8	57.6	97.2	1750.5	12237.8	14856.4	14997.0
70°	5.4	12.6	21.6	30.6	45.0	77.5	1039.1	9673.2	12360.3	12389.1
72.5°	3.6	9.0	14.4	21.6	36.0	70.2	504.3	6305.3	9024.8	9368.8
75°	1.8	5.4	9.0	16.2	28.8	57.6	241.4	4212.6	6566.4	6665.5
77.5°	0.0	1.8	5.4	10.8	21.6	45.0	140.4	2766.3	4477.3	4579.9
80°	0.0	0.0	3.6	9.0	16.2	28.8	84.7	1631.7	2712.3	2762.8
82.5°	0.0	0.0	1.8	7.2	10.8	21.6	43.2	716.8	1775.8	1793.8
85°	0.0	0.0	1.8	7.2	9.0	14.4	16.2	97.2	788.9	803.2
87.5°	0.0	0.0	1.8	9.0	9.0	9.0	9.0	5.4	66.6	82.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)