

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: P650911

Luminaire Tested: **GALN-SA5C-840-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650911
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-SA5C-840-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 21263.8 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

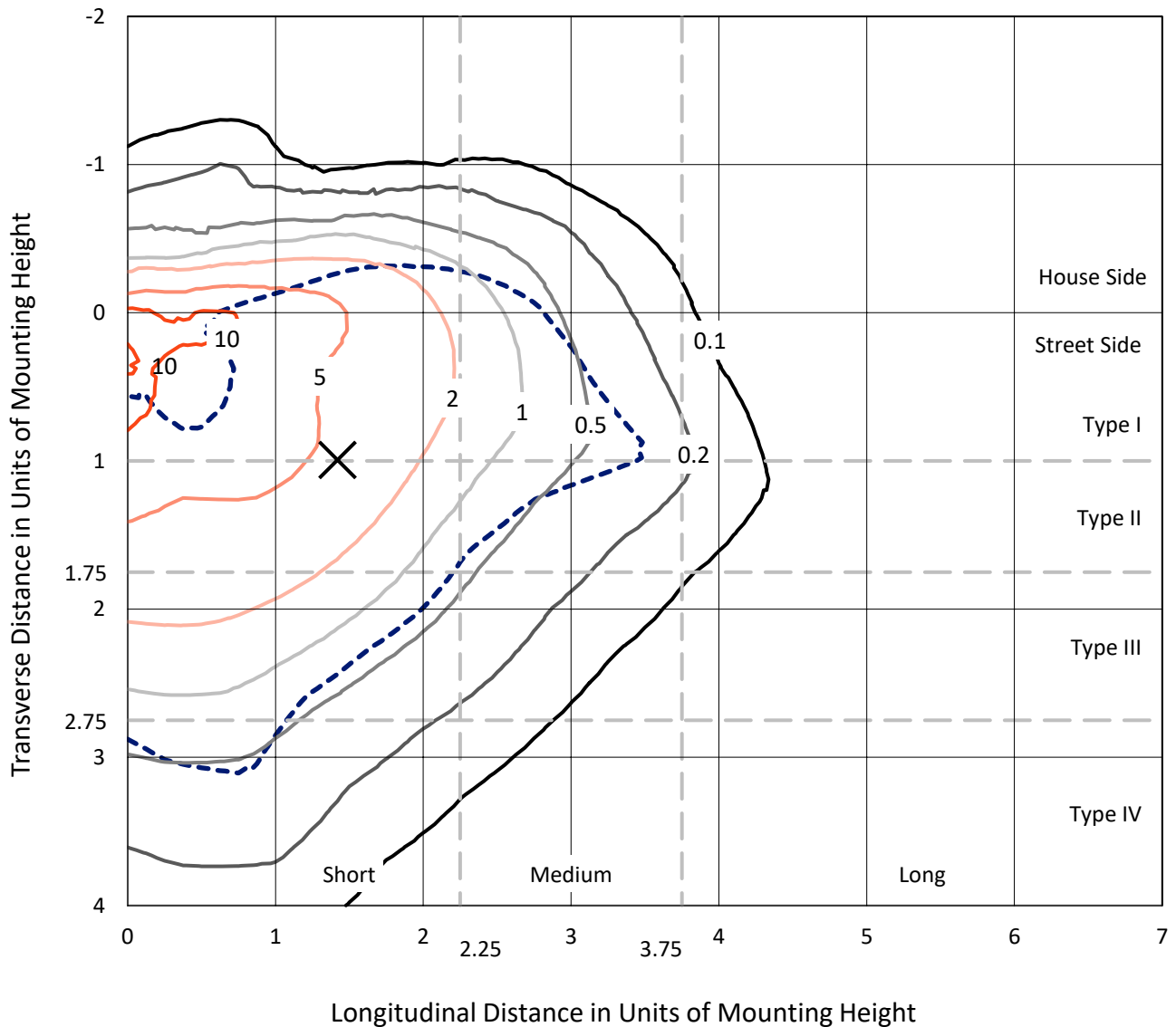
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

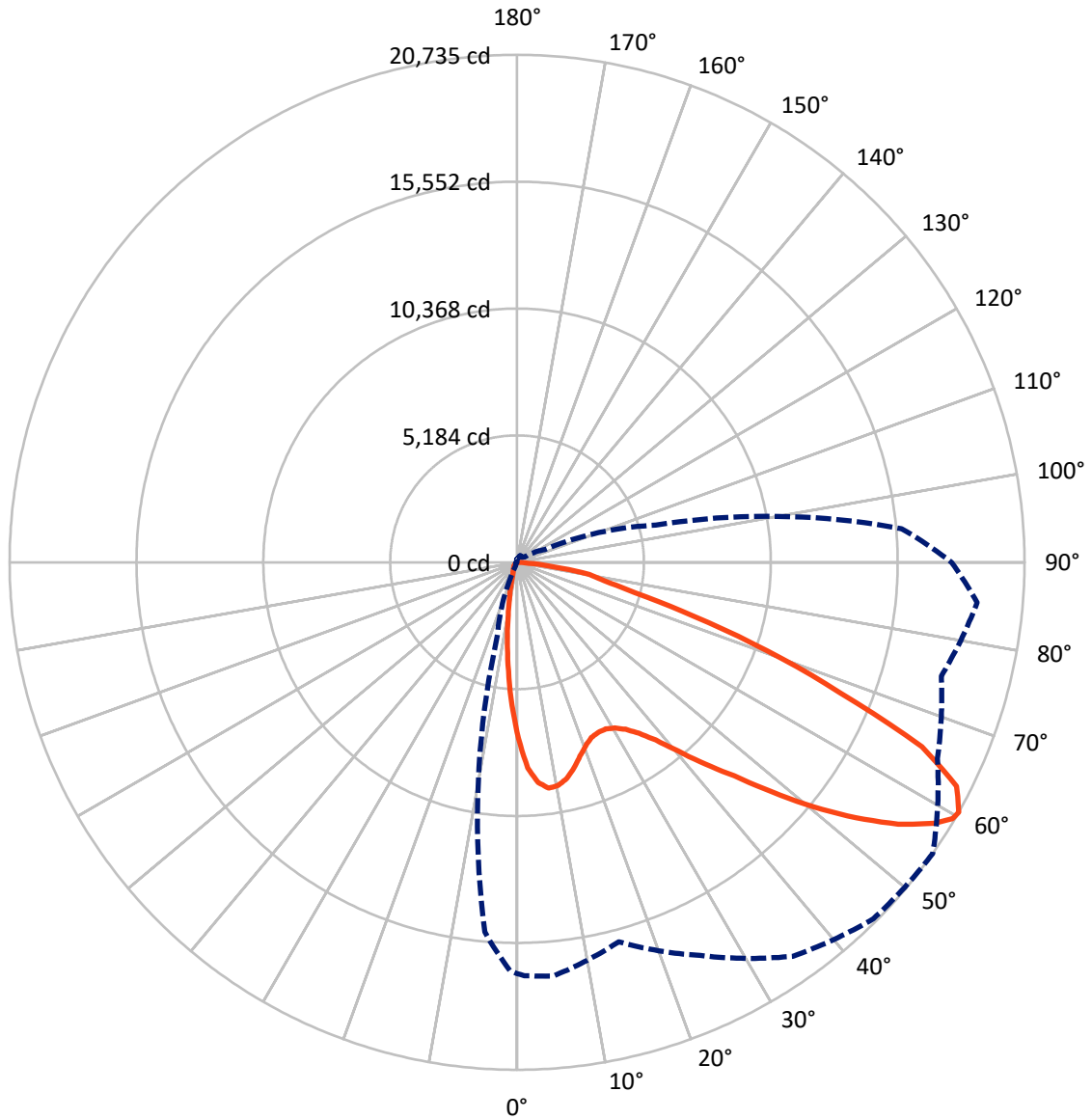
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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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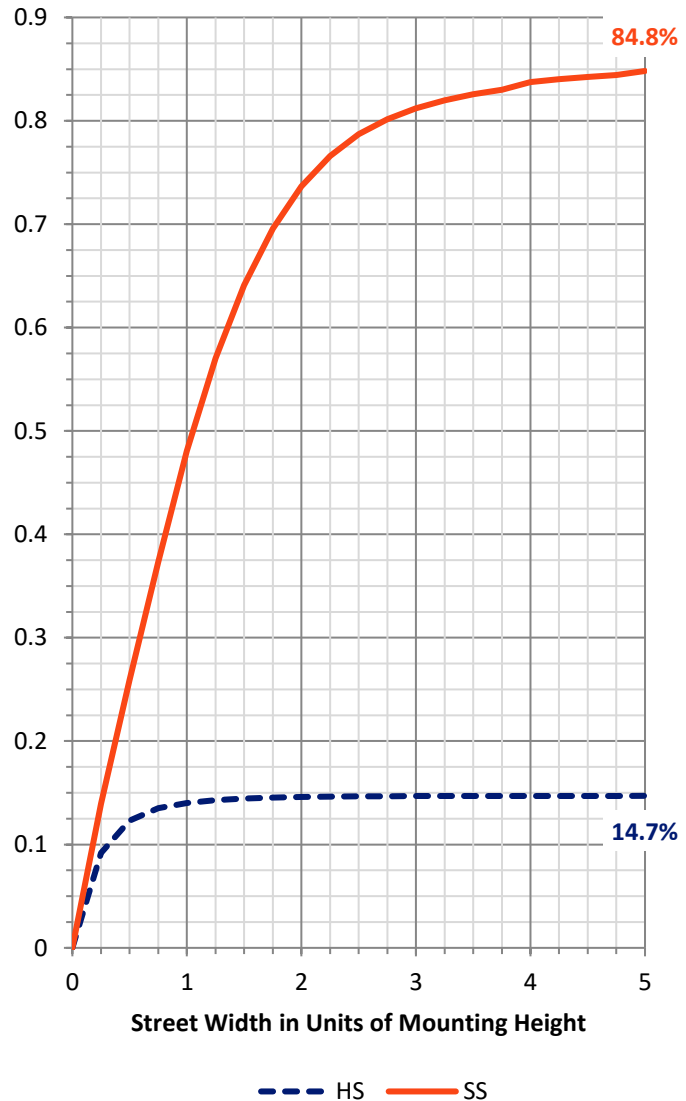
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3155.7	0.0	3155.7
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	18108.1	0.0	18108.1
	% Fixture	85.2	0.0	85.2
Total	Lumens	21263.8	0.0	21263.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	533.2	2.5
10°-20°	1049.9	4.9
20°-30°	1554.1	7.3
30°-40°	2316.5	10.9
40°-50°	3392.5	16.0
50°-60°	4897.8	23.0
60°-70°	5152.2	24.2
70°-80°	2119.4	10.0
80°-90°	248.2	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°	21263.8	100.0
0°-180°	21263.8	100.0

Coefficient of Utilization



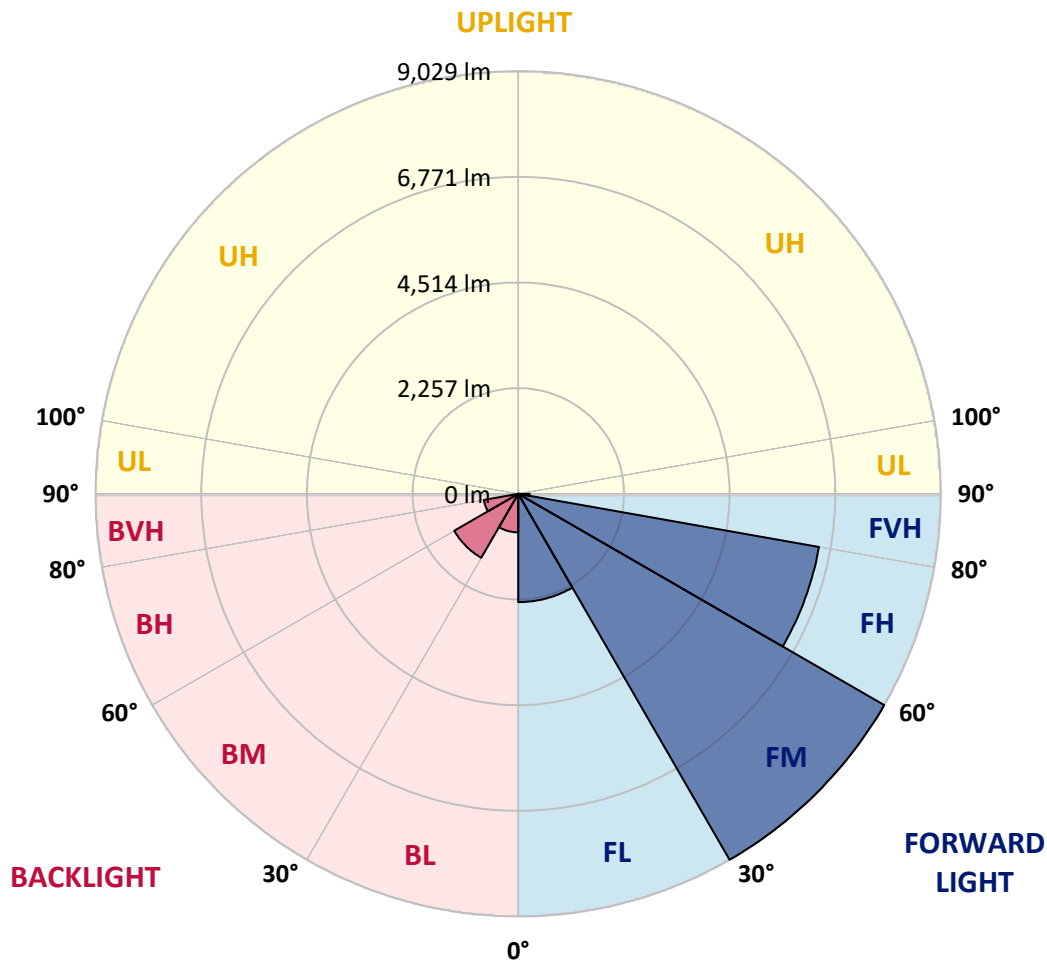
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2313.8	10.9			
FM (30°-60°)	9028.7	42.5			
FH (60°-80°)	6524.7	30.7			G3/7500
FVH (80°-90°)	240.9	1.1			G3/500
BL (0°-30°)	823.3	3.9	B2/1000		
BM (30°-60°)	1578.2	7.4	B2/2500		
BH (60°-80°)	746.9	3.5	B2/1000		G2/1000
BVH (80°-90°)	7.3	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°	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9
2.5°	7866.0	7852.9	7969.1	8159.0	8350.5	8450.3	8430.7	8422.5	8263.8	8147.5	7903.6
5°	7849.6	7916.8	8124.6	8638.6	9028.1	9216.3	9271.9	9037.9	8728.6	8280.1	7726.9
7.5°	7379.9	7463.4	7802.2	8605.8	9298.2	9707.3	9692.6	9317.8	8679.5	7985.5	7196.6
10°	6797.2	6895.4	7293.2	8268.6	9167.2	9707.3	9736.8	9262.1	8468.4	7578.0	6748.2
12.5°	6386.5	6502.6	6942.9	7954.4	8830.1	9362.0	9396.3	9052.6	8309.6	7420.8	6504.3
15°	6247.3	6357.0	6803.8	7795.6	8471.6	8758.0	8749.8	8713.9	8247.4	7458.5	6517.3
17.5°	6486.3	6576.3	7080.4	7867.6	8136.1	8106.7	8149.2	8322.6	8260.5	7774.4	6929.8
20°	7103.3	7195.0	7736.7	8088.6	7879.1	7692.5	7712.1	8001.9	8381.6	8368.5	7574.7
22.5°	7952.7	8108.2	8599.2	8517.4	7844.8	7435.5	7394.7	7771.1	8587.8	9052.6	8445.4
25°	9028.1	9185.2	9568.2	9201.5	8013.3	7375.0	7337.4	7700.7	8838.2	9720.4	9425.8
27.5°	9931.5	10051.0	10432.4	9867.7	8262.1	7401.2	7339.0	7710.5	9041.2	10288.4	10252.4
30°	10655.0	10743.4	10967.6	10178.7	8476.5	7515.8	7443.8	7854.6	9131.2	10565.0	10921.7
32.5°	11237.6	11386.6	11456.9	10510.9	8784.2	7731.8	7609.0	8131.1	9350.5	10907.0	11623.9
35°	11903.8	12075.7	11985.6	10828.5	9190.1	8069.0	7918.4	8579.6	9682.8	11222.9	12439.0
37.5°	12748.3	12946.4	12594.5	11162.3	9618.9	8576.3	8506.0	9209.8	10186.9	11674.7	13312.9
40°	13622.3	13736.9	13185.3	11568.3	10146.0	9314.5	9381.6	10146.0	10846.5	12216.4	14242.7
42.5°	14304.8	14412.9	13792.6	11908.7	10684.4	10190.1	10470.0	11275.3	11602.6	12771.3	14936.6
45°	14826.9	14918.6	14213.2	12280.2	11411.1	11458.6	11987.3	12439.0	12360.4	13110.0	15471.8
47.5°	15232.9	15311.4	14537.3	12679.6	12499.5	13010.2	13818.7	14010.2	13146.0	13476.7	15956.3
50°	15399.8	15422.7	14638.7	13188.6	13735.2	14987.4	15830.2	15714.0	14046.2	13884.2	16471.8
52.5°	15617.5	15612.6	14928.4	13673.1	14897.3	16755.0	17596.2	17332.8	15064.2	14494.7	17051.2
55°	16188.7	16195.2	15548.7	14360.5	15887.5	18182.2	19082.4	18890.9	16137.9	15525.8	17727.2
57.5°	16882.7	16907.2	16431.0	15164.1	16833.5	19216.6	20192.1	20118.4	17589.7	16673.2	18365.5
59°	16972.6	17021.8	16848.3	15730.4	17394.9	19534.1	20571.8	20643.8	18367.1	17429.3	18710.8
60°	16809.0	16890.8	16969.4	16051.2	17723.9	19648.7	20594.7	20735.4	18951.4	17943.2	18868.0
62.5°	16095.4	16224.7	16619.2	17038.2	18134.7	19291.9	19863.1	20157.7	19674.9	19293.5	18882.7
65°	15160.8	15227.9	15797.5	17213.3	17337.6	17625.7	17802.5	18180.6	18805.8	19814.0	18206.7
67.5°	13628.9	13826.9	14524.2	16196.9	14985.7	14645.3	14601.1	14224.6	15848.2	18573.4	16540.5
70°	11258.9	11347.3	12206.6	13278.6	11309.7	10785.9	10995.4	10854.6	12285.2	15989.0	13312.9
72.5°	8514.1	8713.9	9553.4	10584.6	7695.8	7016.5	7594.3	7541.9	9227.8	12849.8	9146.0
75°	6057.5	6186.7	7257.2	8283.3	5389.7	4566.4	4774.3	4969.0	6442.1	10146.0	5404.4
77.5°	4162.1	4273.5	5077.0	5478.0	3931.3	3766.1	3445.2	3633.5	4221.1	6019.8	2941.1
80°	2510.7	2505.8	3034.5	3132.6	2738.2	3180.2	2667.8	2995.1	2551.6	2576.2	1139.1
82.5°	1630.2	1613.8	1856.0	2022.9	1523.8	1602.4	1075.3	1550.0	1662.9	718.6	360.1
85°	730.0	761.1	892.0	1176.8	667.8	355.2	219.3	476.3	708.7	361.7	0.0
87.5°	75.3	59.0	157.1	286.4	91.7	9.8	32.7	16.4	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°	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9
2.5°	7790.8	7695.8	7412.7	7147.5	6920.0	6641.8	6461.7	6178.6	6006.8	5954.4	5962.5
5°	7478.1	7204.8	6666.3	6235.8	5756.3	5483.0	5067.3	4667.9	4451.8	4371.7	4335.6
7.5°	6823.5	6530.4	5880.7	5204.7	4690.8	4211.2	3901.9	3550.0	3309.4	3111.4	3077.1
10°	6337.4	5952.7	5147.4	4420.7	4014.8	3654.7	3345.4	2993.5	2710.4	2484.5	2422.3
12.5°	6046.0	5615.5	4717.0	4108.1	3723.5	3353.7	2951.0	2543.4	2253.7	2009.9	1897.0
15°	5993.6	5494.4	4595.9	3883.9	3409.2	2962.4	2427.2	1986.9	1689.1	1458.3	1387.9
17.5°	6309.5	5712.1	4577.9	3649.9	2998.4	2365.1	1808.6	1443.6	1108.0	978.8	928.0
20°	6872.6	6096.7	4576.2	3378.1	2576.2	1821.7	1270.1	941.1	805.3	743.0	713.6
22.5°	7640.1	6620.5	4663.0	3144.1	2137.6	1343.7	906.8	749.6	671.0	620.3	608.9
25°	8577.9	7396.3	4875.8	2985.4	1802.0	1054.0	748.0	641.6	576.1	553.2	543.4
27.5°	9411.0	8139.4	5109.8	2821.7	1561.4	932.9	694.0	587.6	535.2	517.2	502.5
30°	10129.6	8813.7	5222.7	2605.7	1368.3	854.4	703.7	628.5	559.8	505.8	481.2
32.5°	10728.6	9330.9	5296.4	2409.2	1204.6	698.9	556.5	486.1	455.0	435.4	419.0
35°	11478.2	9890.7	5252.2	2297.9	1121.1	636.7	507.4	419.0	366.6	327.3	311.0
37.5°	12263.9	10450.4	5175.3	2206.3	1083.5	590.9	482.8	397.7	340.4	299.5	278.2
40°	13077.3	10969.2	5085.3	2121.2	1049.1	561.4	468.1	379.7	322.4	278.2	255.3
42.5°	13822.0	11474.9	5049.3	2065.5	993.5	566.3	456.7	371.6	304.4	258.6	238.9
45°	14424.3	11954.5	5098.3	2036.1	932.9	558.1	459.9	361.7	289.7	245.5	225.9
47.5°	15067.5	12632.1	5257.1	2006.6	874.0	518.8	484.5	360.1	283.2	237.3	216.1
50°	15815.5	13499.6	5620.5	1934.6	802.0	476.3	515.5	358.4	275.0	227.5	206.2
52.5°	16812.3	14484.9	5995.2	1808.6	697.3	435.4	492.7	353.6	258.6	216.1	194.8
55°	17707.5	15522.5	6312.8	1659.6	564.6	376.4	443.5	332.3	230.8	196.4	176.8
57.5°	18077.5	16108.5	6303.0	1453.4	451.7	330.6	365.0	304.4	201.3	173.5	157.1
59°	17941.6	16034.8	6091.9	1301.2	412.4	306.0	302.8	301.2	188.2	157.1	144.1
60°	17750.1	15766.4	5864.3	1225.9	387.9	289.7	278.2	297.9	176.8	147.3	134.2
62.5°	17016.9	14653.4	5109.8	1098.3	355.2	245.5	222.6	252.0	157.1	127.7	116.2
65°	15954.6	12943.1	4325.9	1062.2	345.3	202.9	184.9	180.1	134.2	108.0	98.2
67.5°	13882.6	10952.8	3504.2	1037.7	348.6	170.2	162.1	135.8	111.3	90.0	83.5
70°	11114.9	8540.4	2869.2	1009.9	351.9	139.1	135.8	108.0	90.0	75.3	68.7
72.5°	6753.1	5062.3	2258.7	877.2	342.0	111.3	121.1	81.8	65.4	54.0	50.7
75°	4175.2	3464.9	1401.0	682.5	225.9	81.8	85.1	50.7	44.2	34.4	34.4
77.5°	2419.1	2188.3	500.8	245.5	99.8	49.1	37.7	26.2	24.6	14.7	14.7
80°	1003.3	803.7	173.5	83.5	54.0	22.9	8.2	1.6	0.0	0.0	0.0
82.5°	293.0	260.2	47.4	37.7	16.4	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°	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9
2.5°	5823.4	5769.4	5744.9	5828.3	5751.4	5849.6	5774.3	5807.0	5903.6	5946.1	6055.8
5°	4358.6	4302.9	4276.7	4402.7	4396.2	4458.4	4451.8	4509.1	4558.2	4448.6	4561.5
7.5°	3036.1	2998.4	3060.7	3158.9	3263.6	3229.2	3229.2	3152.3	3178.5	3162.2	3157.2
10°	2309.4	2180.1	2147.3	2144.1	2183.4	2191.6	2147.3	2040.9	2080.3	2091.7	2160.4
12.5°	1816.7	1716.9	1564.7	1496.0	1478.0	1492.7	1347.0	1253.7	1297.9	1271.8	1338.8
15°	1302.8	1221.0	1131.0	1054.0	1032.7	1003.3	844.5	733.3	720.1	725.0	736.5
17.5°	929.6	874.0	874.0	792.1	748.0	659.6	579.4	530.3	525.4	530.3	538.5
20°	685.8	656.3	653.0	631.8	582.6	523.8	468.1	458.3	455.0	463.2	466.5
22.5°	590.9	559.8	533.5	531.9	486.1	437.0	410.8	397.7	399.4	402.7	410.8
25°	528.7	495.9	468.1	451.7	419.0	384.6	360.1	353.6	353.6	358.4	360.1
27.5°	484.5	443.5	419.0	396.1	366.6	337.2	315.9	311.0	307.7	311.0	319.2
30°	453.4	412.4	381.4	347.0	324.0	296.3	278.2	271.7	270.0	271.7	278.2
32.5°	387.9	363.3	338.8	307.7	279.9	261.9	242.2	230.8	230.8	234.1	240.6
35°	293.0	279.9	278.2	270.0	247.2	227.5	204.6	193.1	193.1	199.7	202.9
37.5°	258.6	234.1	230.8	227.5	217.7	191.5	170.2	160.4	158.8	163.7	170.2
40°	235.6	207.9	193.1	189.9	191.5	162.1	139.1	129.3	129.3	130.9	137.5
42.5°	217.7	184.9	158.8	155.5	162.1	135.8	112.9	103.1	103.1	103.1	111.3
45°	202.9	165.3	134.2	117.8	127.7	111.3	91.7	81.8	78.5	81.8	85.1
47.5°	193.1	150.5	117.8	94.9	94.9	88.4	73.7	62.2	59.0	60.6	65.4
50°	184.9	137.5	99.8	77.0	68.7	70.4	55.7	47.4	44.2	44.2	49.1
52.5°	171.8	124.4	86.7	65.4	52.4	47.4	41.0	34.4	32.7	34.4	37.7
55°	155.5	112.9	75.3	54.0	41.0	32.7	29.4	24.6	22.9	24.6	29.4
57.5°	137.5	94.9	60.6	42.6	27.8	21.3	19.7	16.4	13.1	14.7	18.0
59°	126.1	85.1	52.4	34.4	21.3	14.7	14.7	11.4	8.2	9.8	14.7
60°	121.1	78.5	44.2	29.4	18.0	11.4	11.4	8.2	4.9	6.6	11.4
62.5°	103.1	65.4	34.4	18.0	8.2	1.6	4.9	1.6	0.0	1.6	4.9
65°	86.7	52.4	22.9	8.2	0.0	0.0	0.0	0.0	0.0	0.0	1.6
67.5°	72.0	39.3	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	57.3	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	39.3	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	24.6	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.8	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°	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9	7199.9
2.5°	6062.3	6296.4	6440.5	6712.1	6990.4	7204.8	7473.2	7713.8	7813.6	7866.0
5°	4676.0	5001.8	5278.4	5692.5	6077.1	6545.2	7019.8	7579.6	7794.0	7849.6
7.5°	3281.6	3613.9	3903.6	4383.1	4931.4	5558.3	6268.6	6979.0	7291.6	7379.9
10°	2369.9	2725.1	3078.6	3558.2	4070.5	4749.7	5489.5	6368.5	6728.5	6797.2
12.5°	1496.0	1877.3	2451.8	3044.3	3586.0	4132.7	4906.8	5862.7	6260.4	6386.5
15°	867.5	1152.3	1586.0	2358.5	3047.5	3771.0	4615.5	5672.8	6118.0	6247.3
17.5°	581.0	679.3	977.1	1568.0	2478.0	3437.1	4541.9	5828.3	6321.0	6486.3
20°	489.4	533.5	638.3	955.8	1908.4	3139.2	4561.5	6250.6	6897.1	7103.3
22.5°	430.4	471.4	538.5	687.4	1332.3	2769.3	4654.8	6854.6	7689.3	7952.7
25°	379.7	420.7	479.5	569.6	895.2	2342.1	4859.4	7738.4	8738.4	9028.1
27.5°	337.2	374.8	425.5	502.5	689.0	1865.8	5041.0	8599.2	9695.9	9931.5
30°	297.9	329.0	378.1	437.0	572.9	1438.7	5132.7	9352.2	10393.1	10655.0
32.5°	258.6	288.0	335.6	383.0	471.4	1096.6	5068.9	9905.4	11070.7	11237.6
35°	220.9	252.0	291.3	335.6	407.5	885.5	4749.7	10527.3	11772.8	11903.8
37.5°	189.9	216.1	256.9	291.3	368.3	708.7	4363.4	11087.1	12560.1	12748.3
40°	160.4	186.6	227.5	258.6	338.8	558.1	4014.8	11709.0	13389.9	13622.3
42.5°	130.9	162.1	198.1	248.8	291.3	425.5	3592.6	12213.1	14013.5	14304.8
45°	104.8	139.1	178.4	247.2	253.7	324.0	3185.0	12605.9	14565.0	14826.9
47.5°	83.5	117.8	171.8	230.8	207.9	256.9	2952.6	13016.7	15023.4	15232.9
50°	67.1	98.2	180.1	202.9	173.5	217.7	2946.1	13475.0	15260.7	15399.8
52.5°	54.0	80.2	152.2	155.5	147.3	191.5	3122.8	13990.5	15502.9	15617.5
55°	45.8	67.1	99.8	114.5	132.5	173.5	3255.4	14784.4	16080.7	16188.7
57.5°	36.0	57.3	77.0	91.7	117.8	158.8	3273.4	15396.5	16812.3	16882.7
59°	31.1	49.1	68.7	81.8	108.0	148.9	3199.8	15434.1	16859.7	16972.6
60°	26.2	44.2	60.6	77.0	99.8	140.8	3119.6	15160.8	16683.0	16809.0
62.5°	19.7	34.4	44.2	62.2	81.8	121.1	2739.8	14206.6	16007.0	16095.4
65°	13.1	24.6	32.7	45.8	63.8	104.8	2232.4	12969.3	14962.8	15160.8
67.5°	8.2	18.0	26.2	34.4	52.4	88.4	1590.9	11121.5	13501.2	13628.9
70°	4.9	11.4	19.7	27.8	41.0	70.4	944.4	8790.7	11232.7	11258.9
72.5°	3.3	8.2	13.1	19.7	32.7	63.8	458.3	5730.2	8201.5	8514.1
75°	1.6	4.9	8.2	14.7	26.2	52.4	219.3	3828.2	5967.4	6057.5
77.5°	0.0	1.6	4.9	9.8	19.7	41.0	127.7	2514.0	4068.8	4162.1
80°	0.0	0.0	3.3	8.2	14.7	26.2	77.0	1482.9	2464.9	2510.7
82.5°	0.0	0.0	1.6	6.6	9.8	19.7	39.3	651.4	1613.8	1630.2
85°	0.0	0.0	1.6	6.6	8.2	13.1	14.7	88.4	716.9	730.0
87.5°	0.0	0.0	1.6	8.2	8.2	8.2	8.2	4.9	60.6	75.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)