

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: P648051

Luminaire Tested: **GALN-SA7A-835-U-SLL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648051
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-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 17911.1 lumens
Efficiency: N/A
Efficacy: 83.3 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

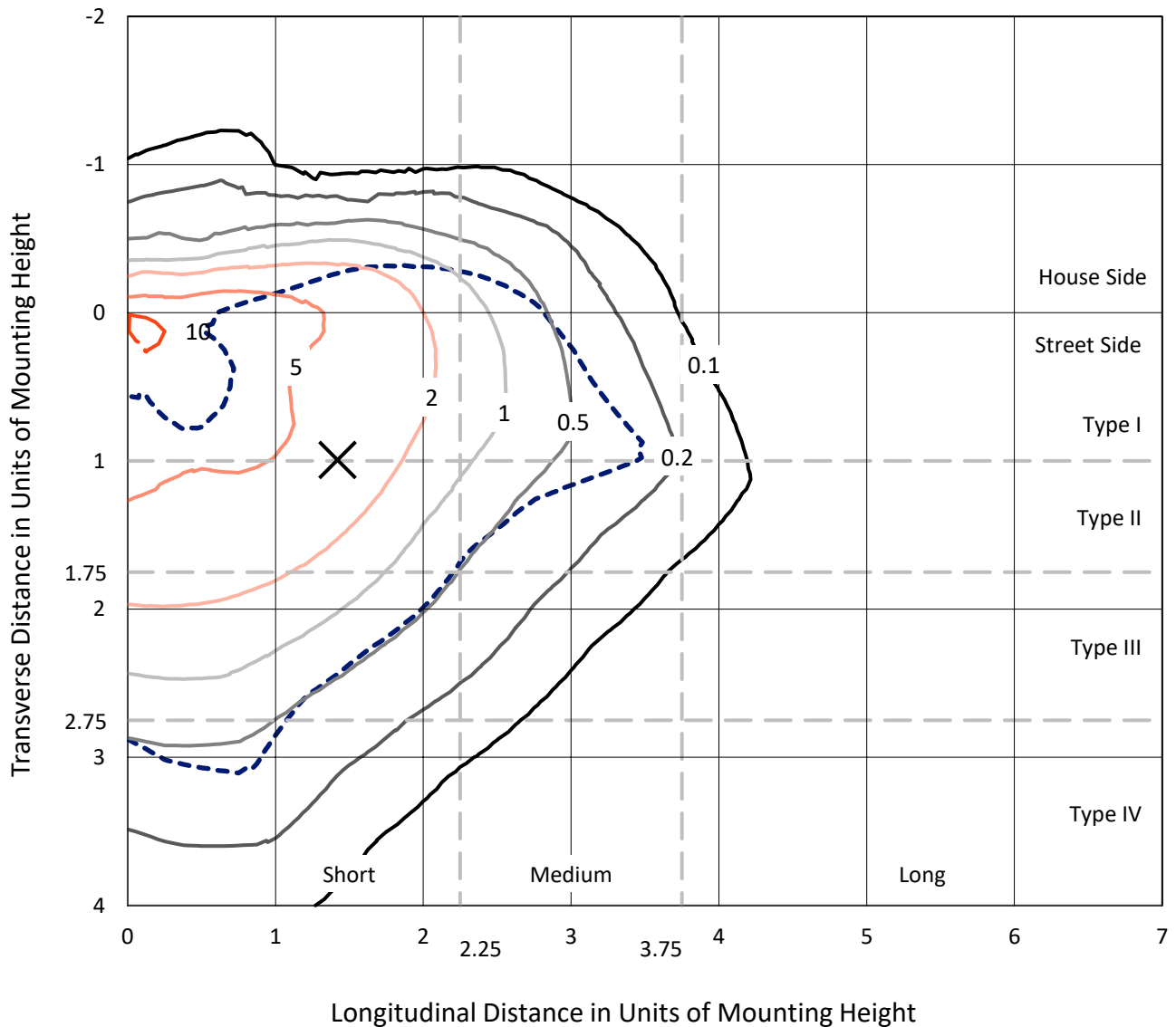
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

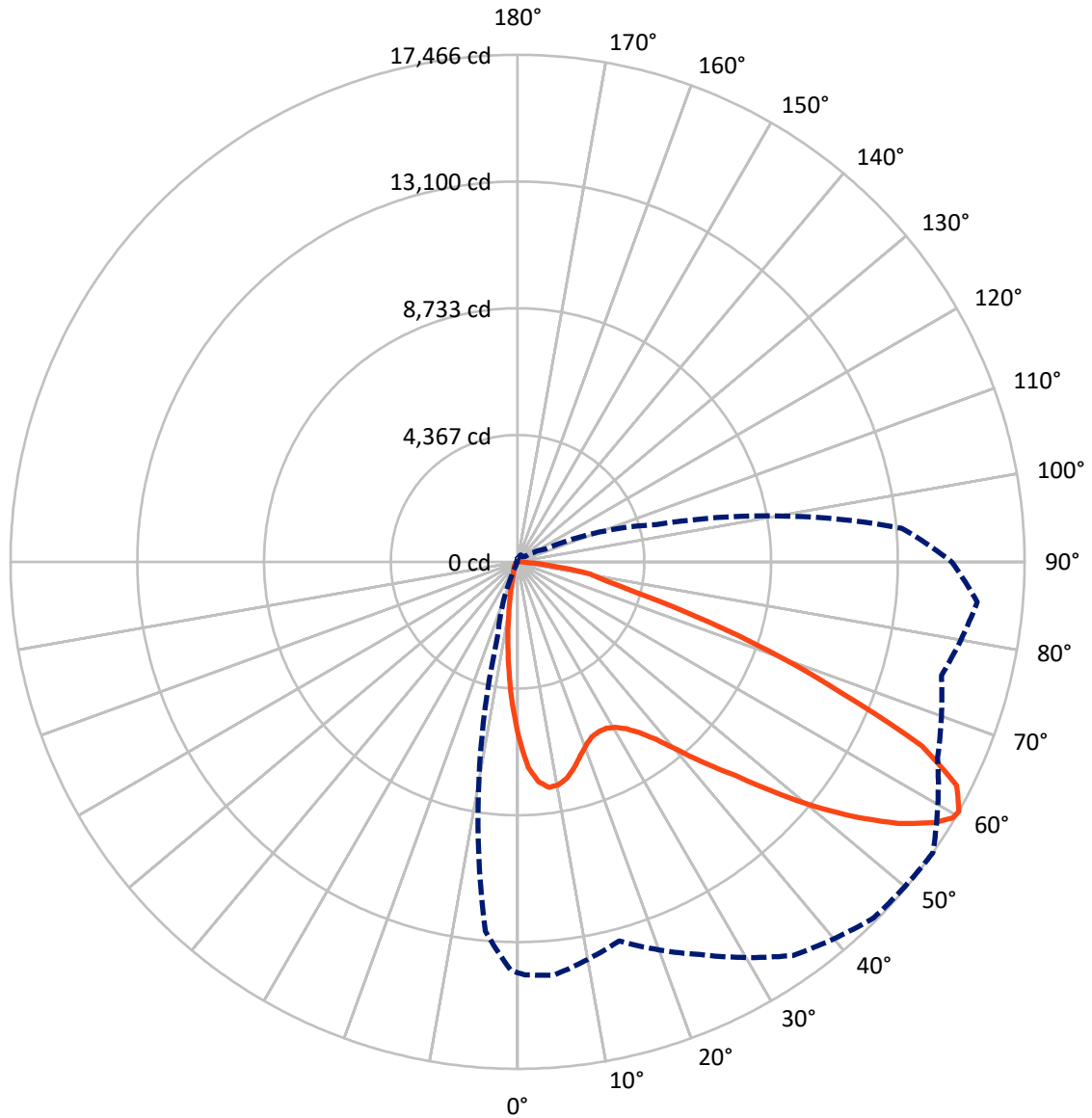
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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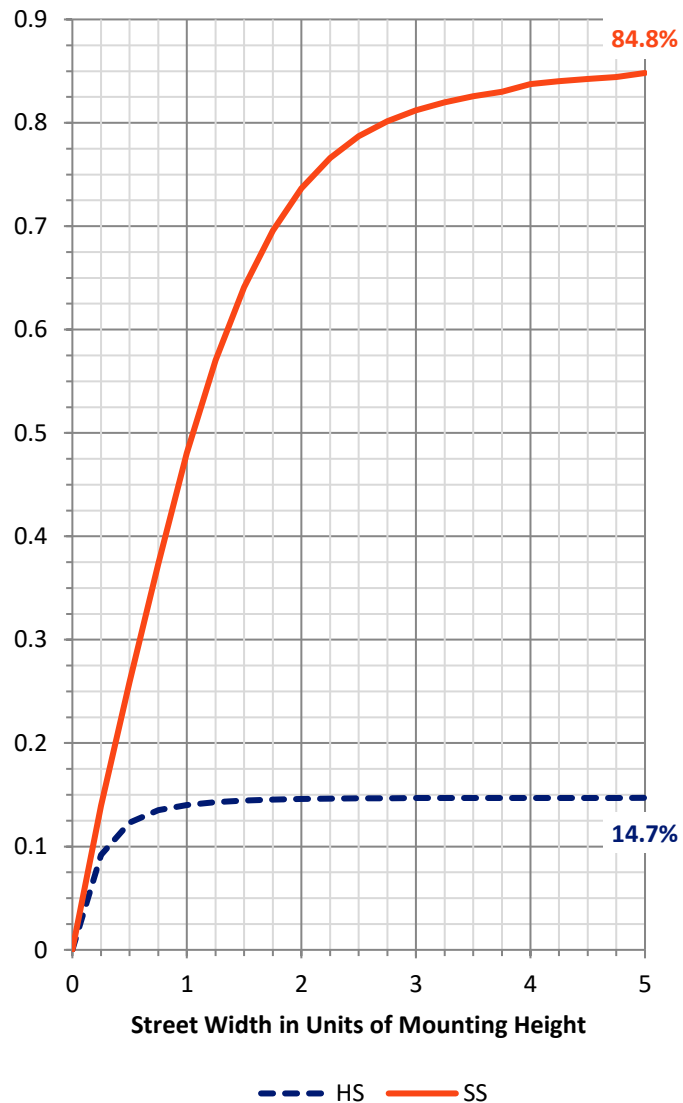
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2658.2	0.0	2658.2
	% Fixture	14.8	0.0	14.8
Street Side	Lumens	15253.0	0.0	15253.0
	% Fixture	85.2	0.0	85.2
Total	Lumens	17911.1	0.0	17911.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.1	2.5
10°-20°	884.4	4.9
20°-30°	1309.0	7.3
30°-40°	1951.3	10.9
40°-50°	2857.6	16.0
50°-60°	4125.5	23.0
60°-70°	4339.9	24.2
70°-80°	1785.3	10.0
80°-90°	209.1	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°	17911.1	100.0
0°-180°	17911.1	100.0

Coefficient of Utilization



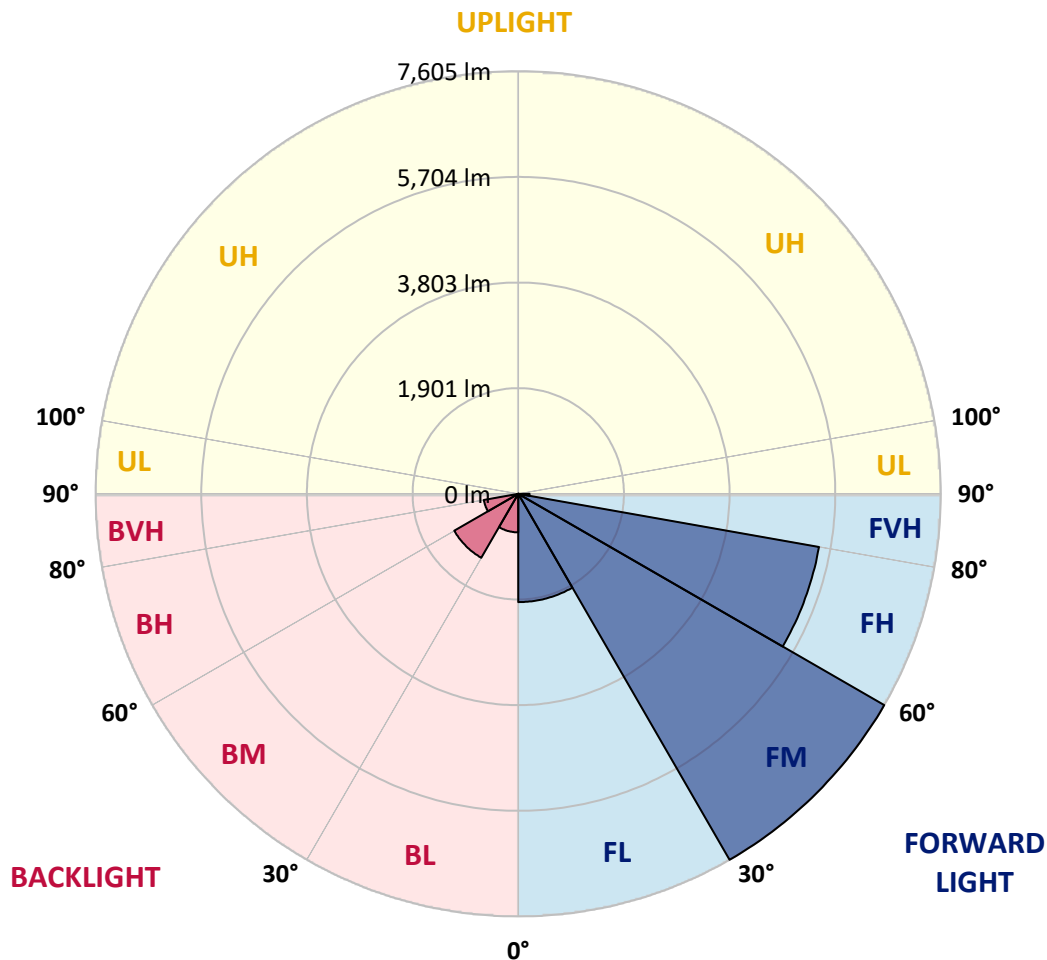
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1949.0	10.9			
FM (30°-60°)	7605.1	42.5			
FH (60°-80°)	5495.9	30.7			G3/7500
FVH (80°-90°)	202.9	1.1			G2/225
BL (0°-30°)	693.5	3.9	B2/1000		
BM (30°-60°)	1329.3	7.4	B2/2500		
BH (60°-80°)	629.2	3.5	B2/1000		G2/1000
BVH (80°-90°)	6.1	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°	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6
2.5°	6625.7	6614.7	6712.7	6872.5	7033.8	7117.9	7101.4	7094.5	6960.8	6862.9	6657.5
5°	6612.0	6668.5	6843.6	7276.5	7604.6	7763.1	7810.0	7612.9	7352.3	6974.6	6508.6
7.5°	6216.3	6286.6	6572.0	7248.9	7832.1	8176.7	8164.3	7848.6	7310.9	6726.4	6061.9
10°	5725.5	5808.2	6143.3	6964.9	7721.8	8176.7	8201.5	7801.7	7133.1	6383.1	5684.2
12.5°	5379.4	5477.3	5848.2	6700.2	7437.8	7885.8	7914.8	7625.2	6999.4	6250.8	5478.7
15°	5262.3	5354.6	5731.0	6566.5	7135.9	7377.1	7370.2	7339.9	6947.0	6282.5	5489.8
17.5°	5463.5	5539.4	5964.0	6627.2	6853.2	6828.5	6864.2	7010.4	6958.1	6548.5	5837.2
20°	5983.3	6060.5	6516.8	6813.3	6636.8	6479.6	6496.2	6740.2	7060.1	7049.0	6380.4
22.5°	6698.8	6829.8	7243.4	7174.5	6607.8	6263.2	6228.7	6545.8	7233.7	7625.2	7113.8
25°	7604.6	7737.0	8059.6	7750.8	6749.9	6212.2	6180.5	6486.5	7444.7	8187.8	7939.6
27.5°	8365.7	8466.3	8787.5	8311.9	6959.4	6234.2	6181.9	6494.8	7615.6	8666.2	8635.9
30°	8975.0	9049.4	9238.3	8573.8	7140.0	6330.7	6270.1	6616.1	7691.5	8899.2	9199.7
32.5°	9465.8	9591.2	9650.5	8853.7	7399.2	6512.7	6409.3	6849.1	7876.2	9187.3	9791.1
35°	10026.9	10171.6	10095.8	9121.1	7741.1	6796.8	6669.9	7226.9	8156.0	9453.4	10477.7
37.5°	10738.3	10905.1	10608.6	9402.3	8102.3	7224.1	7164.8	7757.7	8580.7	9833.9	11213.9
40°	11474.5	11570.9	11106.4	9744.3	8546.2	7845.9	7902.4	8546.2	9136.3	10290.2	11997.0
42.5°	12049.4	12140.3	11617.8	10031.0	8999.8	8583.4	8819.2	9497.5	9773.2	10757.6	12581.5
45°	12489.2	12566.4	11972.1	10344.0	9611.9	9651.9	10097.2	10477.7	10411.6	11043.0	13032.3
47.5°	12831.0	12897.2	12245.1	10680.4	10528.7	10958.9	11639.9	11801.2	11073.3	11351.8	13440.4
50°	12971.6	12991.0	12330.6	11109.1	11569.6	12624.2	13334.3	13236.4	11831.5	11695.0	13874.7
52.5°	13155.0	13150.9	12574.6	11517.2	12548.4	14113.2	14821.8	14599.8	12689.1	12209.2	14362.7
55°	13636.2	13641.7	13097.1	12096.3	13382.5	15315.3	16073.6	15912.3	13593.4	13077.8	14932.1
57.5°	14220.7	14241.4	13840.2	12773.2	14179.3	16186.6	17008.3	16946.3	14816.3	14044.3	15469.8
59°	14296.6	14337.9	14191.8	13250.2	14652.2	16454.1	17328.2	17388.9	15471.1	14681.2	15760.7
60°	14158.7	14227.6	14293.8	13520.4	14929.3	16550.7	17347.5	17466.1	15963.3	15114.1	15893.0
62.5°	13557.6	13666.5	13998.8	14351.7	15275.4	16250.1	16731.2	16979.4	16572.7	16251.5	15905.4
65°	12770.4	12826.9	13306.7	14499.2	14604.0	14846.6	14995.5	15314.0	15840.6	16689.9	15336.1
67.5°	11480.0	11646.8	12234.1	13643.1	12622.9	12336.1	12298.9	11981.8	13349.4	15644.9	13932.5
70°	9483.7	9558.2	10282.0	11184.9	9526.4	9085.3	9261.7	9143.2	10348.1	13468.0	11213.9
72.5°	7171.7	7339.9	8047.1	8915.7	6482.4	5910.2	6396.9	6352.8	7772.8	10823.7	7703.9
75°	5102.3	5211.3	6112.9	6977.3	4539.9	3846.4	4021.5	4185.5	5426.3	8546.2	4552.3
77.5°	3505.9	3599.6	4276.6	4614.3	3311.5	3172.2	2902.0	3060.6	3555.5	5070.6	2477.4
80°	2114.8	2110.7	2556.0	2638.7	2306.5	2678.7	2247.2	2522.9	2149.3	2170.0	959.6
82.5°	1373.1	1359.4	1563.4	1704.0	1283.5	1349.7	905.8	1305.6	1400.7	605.3	303.3
85°	614.9	641.0	751.4	991.3	562.5	299.2	184.7	401.2	597.0	304.7	0.0
87.5°	63.4	49.6	132.3	241.2	77.2	8.3	27.6	13.8	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°	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6
2.5°	6562.3	6482.4	6243.9	6020.6	5828.9	5594.5	5442.9	5204.4	5059.6	5015.5	5022.4
5°	6299.0	6068.8	5615.2	5252.6	4848.7	4618.4	4268.3	3931.9	3749.9	3682.4	3652.0
7.5°	5747.5	5500.8	4953.5	4384.1	3951.2	3547.2	3286.7	2990.3	2787.6	2620.8	2591.9
10°	5338.1	5014.1	4335.9	3723.7	3381.8	3078.5	2817.9	2521.6	2283.1	2092.8	2040.4
12.5°	5092.7	4730.1	3973.3	3460.4	3136.4	2824.8	2485.7	2142.4	1898.4	1693.0	1597.9
15°	5048.6	4628.1	3871.2	3271.5	2871.7	2495.3	2044.5	1673.7	1422.8	1228.4	1169.1
17.5°	5314.7	4811.5	3856.0	3074.4	2525.6	1992.1	1523.4	1216.0	933.3	824.4	781.7
20°	5789.0	5135.5	3854.7	2845.5	2170.0	1534.4	1069.8	792.7	678.3	625.9	601.1
22.5°	6435.5	5576.6	3927.8	2648.3	1800.5	1131.9	763.7	631.4	565.2	522.5	512.9
25°	7225.4	6230.1	4107.0	2514.7	1517.9	887.8	630.0	540.4	485.3	466.0	457.7
27.5°	7927.2	6856.0	4304.2	2376.8	1315.2	785.8	584.5	494.9	450.9	435.7	423.2
30°	8532.4	7424.0	4399.3	2194.8	1152.6	719.7	592.8	529.4	471.5	426.0	405.4
32.5°	9037.0	7859.7	4461.3	2029.4	1014.7	588.7	468.7	409.4	383.3	366.8	352.9
35°	9668.4	8331.1	4424.1	1935.7	944.4	536.3	427.4	352.9	308.8	275.7	261.9
37.5°	10330.2	8802.6	4359.3	1858.5	912.7	497.7	406.7	335.0	286.7	252.3	234.4
40°	11015.4	9239.7	4283.5	1786.7	883.7	472.9	394.3	319.9	271.6	234.4	215.1
42.5°	11642.7	9665.7	4253.1	1739.8	836.9	477.0	384.6	313.0	256.4	217.8	201.3
45°	12150.0	10069.6	4294.4	1715.0	785.8	470.1	387.4	304.7	244.0	206.8	190.3
47.5°	12691.8	10640.3	4428.2	1690.2	736.2	437.0	408.1	303.3	238.5	199.9	182.0
50°	13321.8	11371.0	4734.3	1629.6	675.6	401.2	434.3	301.9	231.6	191.6	173.7
52.5°	14161.4	12201.0	5050.0	1523.4	587.3	366.8	415.0	297.8	217.8	182.0	164.0
55°	14915.5	13075.1	5317.4	1398.0	475.6	317.1	373.6	279.8	194.4	165.4	148.9
57.5°	15227.2	13568.6	5309.1	1224.2	380.5	278.5	307.4	256.4	169.6	146.1	132.3
59°	15112.7	13506.6	5131.3	1096.0	347.4	257.8	255.0	253.7	158.6	132.3	121.3
60°	14951.4	13280.5	4939.7	1032.6	326.7	244.0	234.4	251.0	148.9	124.1	113.1
62.5°	14333.8	12343.0	4304.2	925.0	299.2	206.8	187.5	212.3	132.3	107.5	97.9
65°	13439.0	10902.3	3643.8	894.7	290.9	170.9	155.8	151.7	113.1	91.0	82.7
67.5°	11693.6	9225.9	2951.7	874.1	293.6	143.4	136.5	114.4	93.7	75.8	70.3
70°	9362.4	7193.7	2416.7	850.7	296.4	117.2	114.4	91.0	75.8	63.4	57.9
72.5°	5688.3	4264.1	1902.5	738.9	288.1	93.7	102.0	68.9	55.1	45.5	42.8
75°	3516.9	2918.6	1180.1	574.9	190.3	68.9	71.7	42.8	37.2	29.0	29.0
77.5°	2037.6	1843.3	421.9	206.8	84.1	41.3	31.7	22.1	20.7	12.4	12.4
80°	845.1	676.9	146.1	70.3	45.5	19.3	6.9	1.4	0.0	0.0	0.0
82.5°	246.8	219.2	40.0	31.7	13.8	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°	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6
2.5°	4905.2	4859.7	4839.0	4909.3	4844.6	4927.3	4863.8	4891.4	4972.8	5008.6	5101.0
5°	3671.3	3624.4	3602.4	3708.5	3703.0	3755.4	3749.9	3798.2	3839.5	3747.1	3842.3
7.5°	2557.4	2525.6	2578.0	2660.8	2749.0	2720.1	2720.1	2655.2	2677.3	2663.5	2659.4
10°	1945.3	1836.4	1808.8	1806.0	1839.1	1846.0	1808.8	1719.2	1752.3	1761.9	1819.8
12.5°	1530.3	1446.2	1317.9	1260.1	1244.9	1257.3	1134.6	1056.0	1093.3	1071.2	1127.8
15°	1097.4	1028.5	952.7	887.8	869.9	845.1	711.4	617.6	606.6	610.7	620.4
17.5°	783.1	736.2	736.2	667.3	630.0	555.6	488.0	446.7	442.6	446.7	453.6
20°	577.6	552.8	550.1	532.1	490.8	441.1	394.3	386.0	383.3	390.2	392.9
22.5°	497.7	471.5	449.4	448.0	409.4	368.1	346.0	335.0	336.4	339.1	346.0
25°	445.3	417.7	394.3	380.5	352.9	324.0	303.3	297.8	297.8	301.9	303.3
27.5°	408.1	373.6	352.9	333.6	308.8	284.0	266.1	261.9	259.2	261.9	268.8
30°	381.9	347.4	321.2	292.3	273.0	249.5	234.4	228.9	227.5	228.9	234.4
32.5°	326.7	306.1	285.4	259.2	235.8	220.6	204.0	194.4	194.4	197.2	202.6
35°	246.8	235.8	234.4	227.5	208.2	191.6	172.3	162.7	162.7	168.2	170.9
37.5°	217.8	197.2	194.4	191.6	183.4	161.3	143.4	135.1	133.7	137.9	143.4
40°	198.5	175.1	162.7	159.9	161.3	136.5	117.2	108.9	108.9	110.3	115.8
42.5°	183.4	155.8	133.7	131.0	136.5	114.4	95.1	86.8	86.8	86.8	93.7
45°	170.9	139.2	113.1	99.3	107.5	93.7	77.2	68.9	66.2	68.9	71.7
47.5°	162.7	126.8	99.3	79.9	79.9	74.5	62.0	52.4	49.6	51.0	55.1
50°	155.8	115.8	84.1	64.8	57.9	59.3	46.9	40.0	37.2	37.2	41.3
52.5°	144.8	104.8	73.1	55.1	44.1	40.0	34.5	29.0	27.6	29.0	31.7
55°	131.0	95.1	63.4	45.5	34.5	27.6	24.8	20.7	19.3	20.7	24.8
57.5°	115.8	79.9	51.0	35.9	23.4	17.9	16.5	13.8	11.0	12.4	15.2
59°	106.2	71.7	44.1	29.0	17.9	12.4	12.4	9.6	6.9	8.3	12.4
60°	102.0	66.2	37.2	24.8	15.2	9.6	9.6	6.9	4.1	5.5	9.6
62.5°	86.8	55.1	29.0	15.2	6.9	1.4	4.1	1.4	0.0	1.4	4.1
65°	73.1	44.1	19.3	6.9	0.0	0.0	0.0	0.0	0.0	0.0	1.4
67.5°	60.7	33.1	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	48.2	22.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	33.1	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.7	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.3	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°	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6	6064.6
2.5°	5106.5	5303.7	5424.9	5653.8	5888.2	6068.8	6294.9	6497.6	6581.7	6625.7
5°	3938.8	4213.2	4446.1	4794.9	5118.9	5513.2	5913.0	6384.5	6565.1	6612.0
7.5°	2764.1	3044.1	3288.1	3692.0	4153.9	4681.9	5280.2	5878.5	6141.9	6216.3
10°	1996.3	2295.4	2593.2	2997.2	3428.7	4000.8	4624.0	5364.3	5667.6	5725.5
12.5°	1260.1	1581.3	2065.2	2564.2	3020.6	3481.1	4133.1	4938.3	5273.3	5379.4
15°	730.7	970.5	1335.9	1986.6	2567.1	3176.4	3887.8	4778.4	5153.4	5262.3
17.5°	489.5	572.1	823.1	1320.8	2087.2	2895.1	3825.7	4909.3	5324.3	5463.5
20°	412.2	449.4	537.7	805.2	1607.5	2644.3	3842.3	5265.0	5809.6	5983.3
22.5°	362.6	397.1	453.6	579.0	1122.2	2332.6	3920.9	5773.8	6476.9	6698.8
25°	319.9	354.3	403.9	479.7	754.1	1972.8	4093.2	6518.2	7360.6	7604.6
27.5°	284.0	315.7	358.5	423.2	580.4	1571.6	4246.2	7243.4	8167.1	8365.7
30°	251.0	277.1	318.4	368.1	482.6	1211.8	4323.4	7877.6	8754.4	8975.0
32.5°	217.8	242.7	282.6	322.6	397.1	923.7	4269.7	8343.6	9325.1	9465.8
35°	186.1	212.3	245.4	282.6	343.3	745.9	4000.8	8867.5	9916.6	10026.9
37.5°	159.9	182.0	216.4	245.4	310.2	597.0	3675.5	9338.9	10579.7	10738.3
40°	135.1	157.1	191.6	217.8	285.4	470.1	3381.8	9862.8	11278.7	11474.5
42.5°	110.3	136.5	166.8	209.5	245.4	358.5	3026.1	10287.4	11804.0	12049.4
45°	88.2	117.2	150.3	208.2	213.7	273.0	2682.9	10618.3	12268.6	12489.2
47.5°	70.3	99.3	144.8	194.4	175.1	216.4	2487.0	10964.3	12654.6	12831.0
50°	56.5	82.7	151.7	170.9	146.1	183.4	2481.6	11350.4	12854.5	12971.6
52.5°	45.5	67.6	128.2	131.0	124.1	161.3	2630.5	11784.6	13058.5	13155.0
55°	38.6	56.5	84.1	96.5	111.7	146.1	2742.1	12453.3	13545.2	13636.2
57.5°	30.3	48.2	64.8	77.2	99.3	133.7	2757.3	12968.9	14161.4	14220.7
59°	26.2	41.3	57.9	68.9	91.0	125.4	2695.2	13000.6	14201.4	14296.6
60°	22.1	37.2	51.0	64.8	84.1	118.5	2627.7	12770.4	14052.5	14158.7
62.5°	16.5	29.0	37.2	52.4	68.9	102.0	2307.8	11966.7	13483.2	13557.6
65°	11.0	20.7	27.6	38.6	53.8	88.2	1880.5	10924.4	12603.6	12770.4
67.5°	6.9	15.2	22.1	29.0	44.1	74.5	1340.0	9367.9	11372.4	11480.0
70°	4.1	9.6	16.5	23.4	34.5	59.3	795.4	7404.7	9461.6	9483.7
72.5°	2.7	6.9	11.0	16.5	27.6	53.8	386.0	4826.6	6908.4	7171.7
75°	1.4	4.1	6.9	12.4	22.1	44.1	184.7	3224.6	5026.5	5102.3
77.5°	0.0	1.4	4.1	8.3	16.5	34.5	107.5	2117.6	3427.3	3505.9
80°	0.0	0.0	2.7	6.9	12.4	22.1	64.8	1249.0	2076.2	2114.8
82.5°	0.0	0.0	1.4	5.5	8.3	16.5	33.1	548.7	1359.4	1373.1
85°	0.0	0.0	1.4	5.5	6.9	11.0	12.4	74.5	603.8	614.9
87.5°	0.0	0.0	1.4	6.9	6.9	6.9	6.9	4.1	51.0	63.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)