

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: P957357

Luminaire Tested: **GALN-SB9D-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957357
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65612 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 658
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

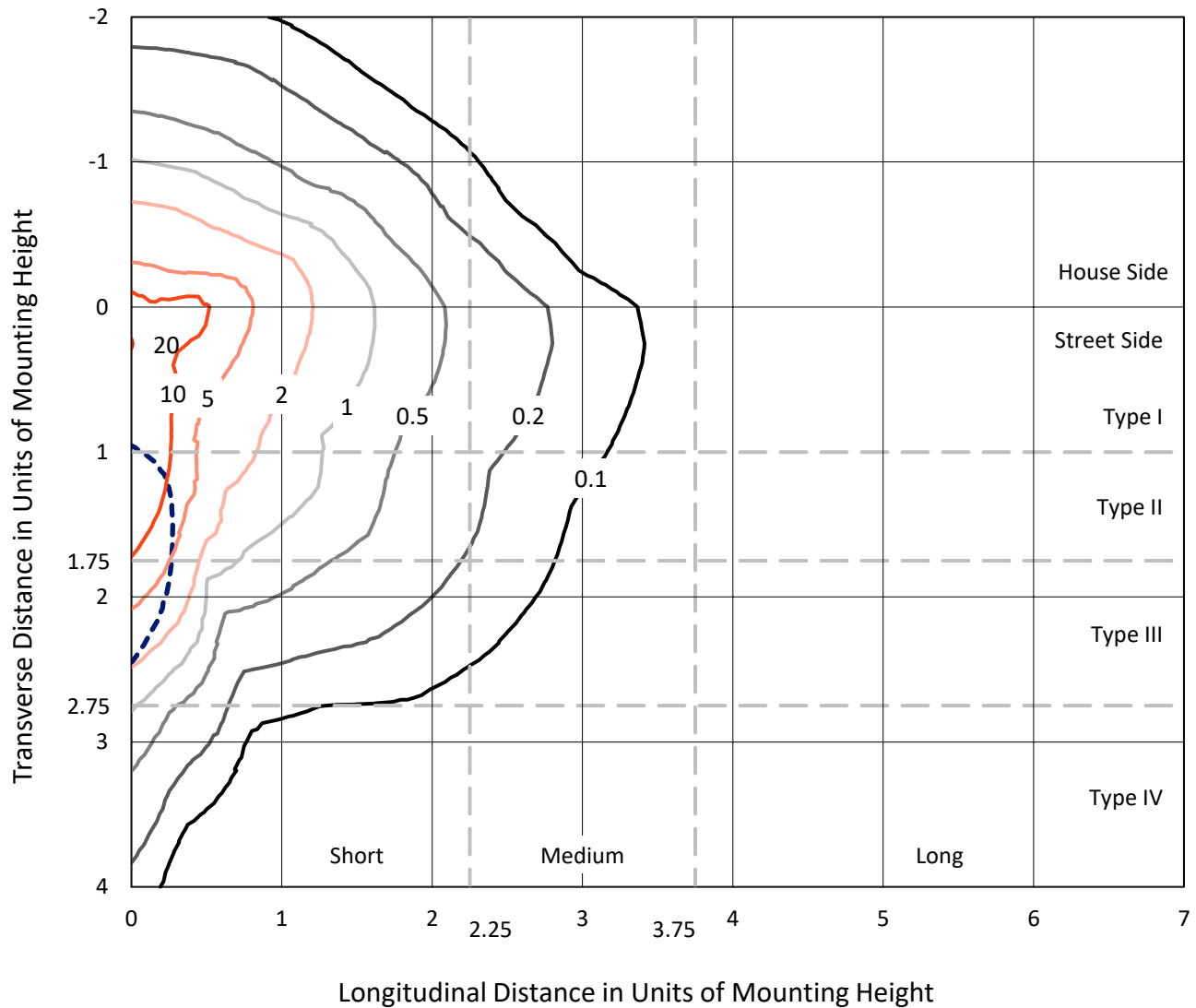


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Iso-Footcandle Lines of Horizontal Illumination

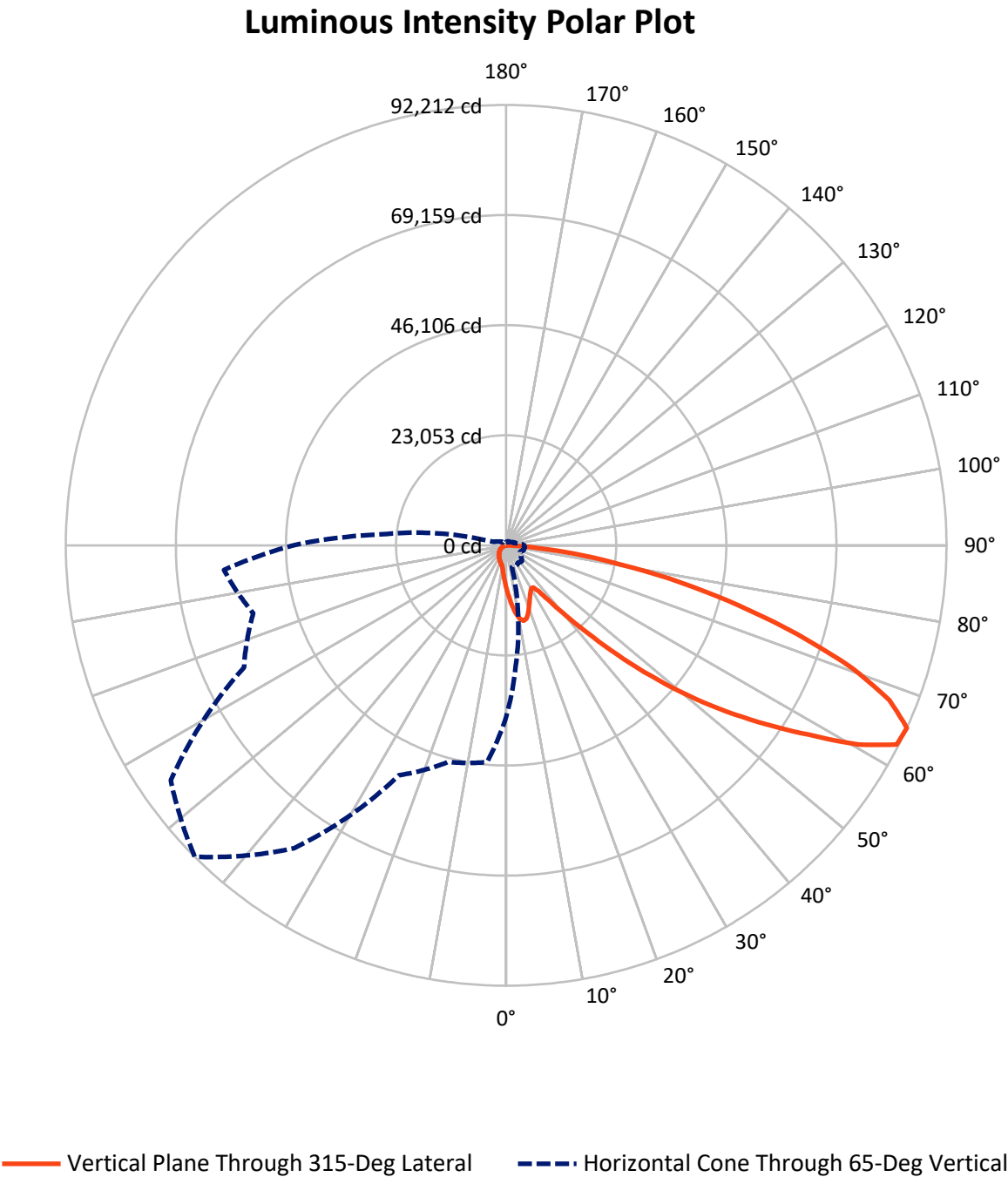
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc

Type IV - Short - N/A

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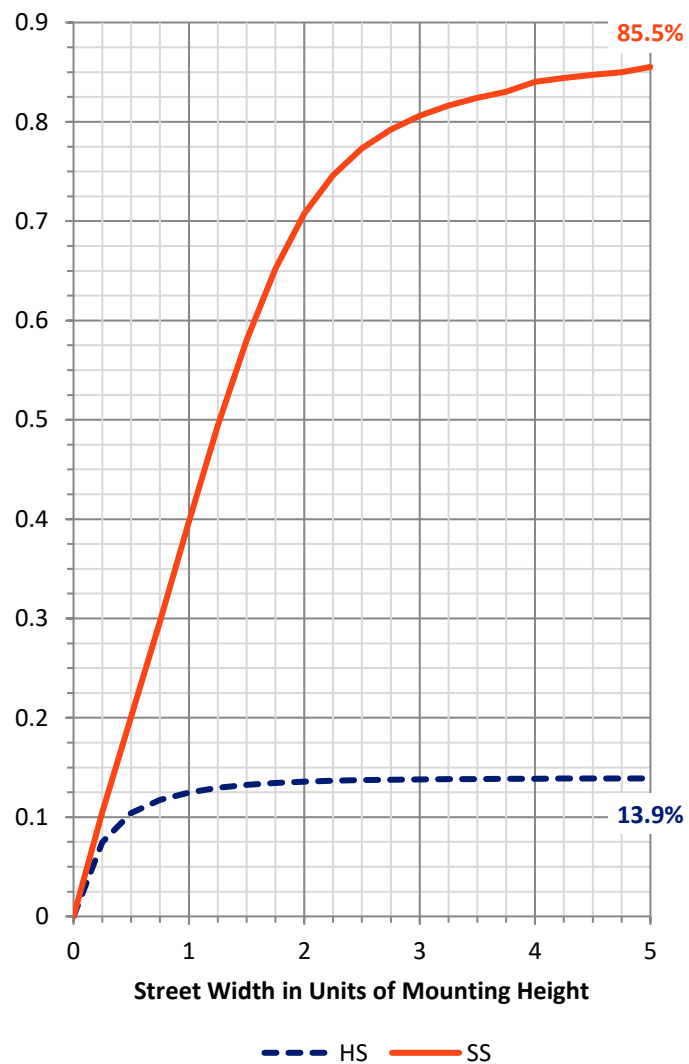
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9188.5	0.0	9188.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	56423.5	0.0	56423.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	65612.0	0.0	65612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	894.5	1.4
10°-20°	2681.3	4.1
20°-30°	3950.2	6.0
30°-40°	5074.9	7.7
40°-50°	8207.6	12.5
50°-60°	14392.8	21.9
60°-70°	18009.3	27.4
70°-80°	10523.8	16.0
80°-90°	1877.6	2.9
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°	65612.0	100.0
0°-180°	65612.0	100.0

Coefficient of Utilization



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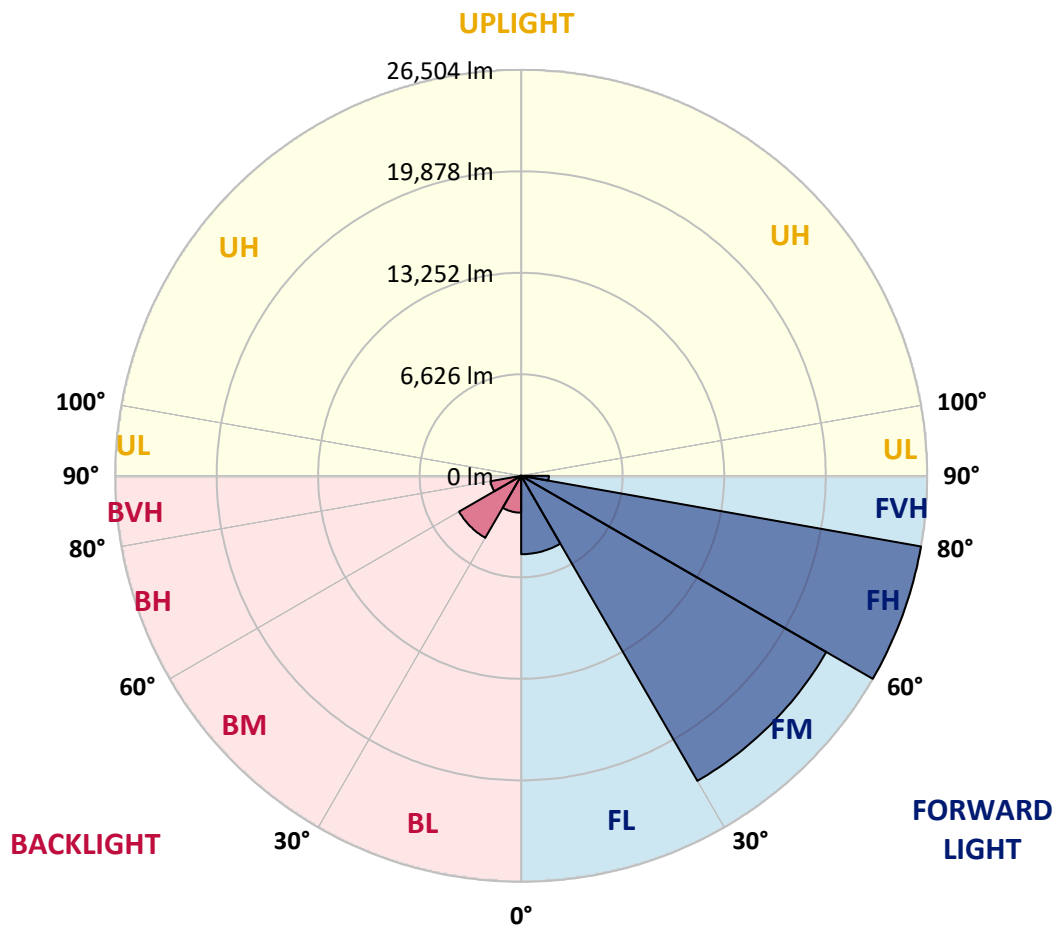
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5117.5	7.8			
FM	(30°-60°)	22996.3	35.0			
FH	(60°-80°)	26504.3	40.4			G5
FVH	(80°-90°)	1805.5	2.8			G5
BL	(0°-30°)	2408.5	3.7	B3/2500		
BM	(30°-60°)	4679.0	7.1	B3/5000		
BH	(60°-80°)	2028.9	3.1	B3/2500		G3/2500
BVH	(80°-90°)	72.1	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2
2.5°	10264.9	10088.6	9984.6	9727.0	9469.4	9261.4	8981.2	8795.9	8574.4	8362.0	8172.1
5°	11440.1	11155.3	10811.8	10341.7	9912.3	9473.9	9049.0	8628.6	8185.7	7778.9	7530.3
7.5°	12434.5	12023.2	11417.5	10793.7	10246.8	9718.0	9220.8	8664.8	8126.9	7489.6	7150.6
10°	13193.8	12669.5	11874.0	11055.9	10427.6	9894.2	9410.6	8940.5	8398.1	7629.7	7204.9
12.5°	13654.9	13094.4	12149.7	11191.5	10472.8	9876.2	9501.0	9293.1	9080.6	8316.8	7819.6
15°	13993.9	13388.2	12344.1	11286.4	10368.8	9636.6	9360.9	9568.8	9812.9	9324.7	8750.7
17.5°	14346.4	13709.1	12597.2	11327.1	10088.6	9171.0	9053.5	9591.4	10156.4	10133.8	9564.3
20°	14680.9	14048.1	12818.7	11300.0	9636.6	8606.0	8710.0	9397.0	10052.4	10328.2	10020.8
22.5°	15065.1	14396.1	13031.1	11196.0	9049.0	8077.2	8402.6	9089.7	9663.7	9989.2	9894.2
25°	15535.2	14834.6	13329.4	11042.3	8416.2	7638.8	8090.8	8732.6	9198.2	9424.2	9419.6
27.5°	16041.4	15358.9	13727.2	10961.0	7905.4	7326.9	7738.2	8307.7	8723.6	8881.8	8881.8
30°	16669.7	15969.1	14197.3	10870.6	7571.0	7146.1	7372.1	7815.0	8221.8	8380.0	8380.0
32.5°	17356.7	16647.1	14649.3	10653.6	7367.6	7010.5	7015.0	7295.2	7665.9	7855.7	7882.8
35°	18215.5	17460.7	15132.9	10179.0	7204.9	6852.3	6667.0	6802.6	7109.9	7335.9	7394.7
37.5°	19440.4	18527.4	15725.0	9501.0	6965.3	6608.2	6300.9	6332.5	6567.5	6816.1	6906.5
40°	21130.9	19960.2	16421.1	8795.9	6621.8	6264.7	5898.6	5885.0	6056.8	6300.9	6400.3
42.5°	23418.0	21854.1	17257.3	8122.4	6291.8	5848.9	5473.7	5451.1	5586.7	5799.1	5903.1
45°	26437.4	24276.8	18283.3	7543.8	6034.2	5442.1	5071.4	5062.4	5175.4	5360.7	5469.2
47.5°	30302.0	27644.2	19309.4	7150.6	5898.6	5121.1	4741.5	4759.5	4859.0	5026.2	5103.1
50°	35305.6	32033.1	19621.2	6951.7	5898.6	4949.4	4447.7	4538.1	4619.4	4746.0	4791.2
52.5°	41303.6	36245.7	18590.7	6770.9	5934.7	4972.0	4199.1	4393.4	4452.2	4560.7	4578.7
55°	46863.2	38311.4	15982.7	6522.3	5943.8	5112.1	3986.6	4275.9	4384.4	4425.1	4420.5
57.5°	50090.4	37601.7	12922.6	6102.0	5907.6	5207.0	3851.0	4131.3	4339.2	4366.3	4325.6
60°	49475.7	35111.2	9514.6	5781.1	5640.9	5170.9	3810.3	3909.8	4239.7	4280.4	4226.2
62.5°	44738.8	30934.8	6603.7	5532.5	5053.3	5012.7	3796.8	3561.7	4022.8	4122.2	4045.4
65°	35961.0	24353.7	4664.6	4764.1	4429.6	4669.1	3724.5	3200.1	3760.6	3896.2	3778.7
67.5°	26089.3	16479.9	3367.4	3860.1	4013.7	4113.2	3561.7	2938.0	3462.3	3643.1	3489.4
70°	16742.0	8899.8	2364.0	2549.3	3380.9	3493.9	3281.5	2702.9	3159.5	3367.4	3200.1
72.5°	11901.1	5256.7	1699.5	1785.4	2716.5	2910.9	2888.3	2440.8	2806.9	3060.0	2861.1
75°	8212.8	2897.3	1148.1	1274.6	1970.7	2364.0	2228.4	2097.3	2377.5	2635.1	2440.8
77.5°	5148.3	1297.2	687.0	885.9	1292.7	1857.7	1527.8	1622.7	1853.2	2092.8	1889.4
80°	2865.7	501.7	384.2	587.6	705.1	1351.5	845.2	1044.1	1365.0	1536.8	1374.1
82.5°	623.8	63.3	171.8	253.1	275.7	786.5	447.5	605.7	858.8	845.2	732.2
85°	0.0	0.0	31.6	36.2	18.1	339.0	162.7	198.9	280.2	262.2	198.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2
2.5°	8136.0	7914.5	7751.8	7670.4	7602.6	7665.9	7702.0	7702.0	7855.7	7946.1	7982.3
5°	7372.1	6974.3	6671.5	6468.1	6346.1	6386.7	6431.9	6481.7	6676.0	6807.1	6893.0
7.5°	6843.3	6233.1	5772.0	5487.3	5338.1	5360.7	5392.3	5433.0	5622.9	5753.9	5866.9
10°	6743.8	5866.9	5216.1	4840.9	4660.1	4628.5	4610.4	4596.8	4709.8	4809.3	4899.7
12.5°	7150.6	5885.0	4976.5	4520.0	4298.5	4203.6	4095.1	4009.2	4027.3	4090.6	4203.6
15°	7878.3	6115.5	4899.7	4352.7	4077.0	3918.8	3792.3	3688.3	3665.7	3688.3	3706.4
17.5°	8710.0	6427.4	4890.6	4208.1	3864.6	3701.9	3597.9	3503.0	3471.3	3475.9	3498.5
20°	9261.4	6676.0	4863.5	4045.4	3661.2	3516.5	3426.1	3331.2	3299.6	3308.6	3313.1
22.5°	9315.7	6807.1	4822.8	3864.6	3457.8	3335.7	3245.3	3159.5	3154.9	3154.9	3182.1
25°	9021.9	6807.1	4736.9	3701.9	3263.4	3154.9	3073.6	2969.6	2987.7	2996.7	3032.9
27.5°	8565.4	6644.4	4574.2	3570.8	3096.2	2983.2	2901.8	2806.9	2829.5	2843.1	2883.7
30°	8113.4	6436.5	4379.9	3421.6	2938.0	2806.9	2748.1	2666.8	2675.8	2693.9	2739.1
32.5°	7693.0	6215.0	4149.3	3299.6	2779.8	2648.7	2603.5	2513.1	2526.7	2544.7	2594.5
35°	7277.2	5970.9	3878.1	3154.9	2635.1	2504.1	2467.9	2364.0	2373.0	2400.1	2454.3
37.5°	6829.7	5713.3	3656.7	3010.3	2495.0	2359.4	2323.3	2214.8	2223.8	2255.5	2318.8
40°	6359.6	5460.1	3439.7	2856.6	2345.9	2210.3	2178.6	2061.1	2070.2	2106.3	2174.1
42.5°	5885.0	5184.4	3272.5	2657.7	2192.2	2047.6	2015.9	1907.4	1921.0	1961.7	2029.5
45°	5446.6	4854.5	3164.0	2436.3	2047.6	1884.8	1853.2	1753.8	1780.9	1826.1	1893.9
47.5°	5071.4	4515.5	3118.8	2251.0	1893.9	1717.6	1690.5	1609.1	1654.3	1704.0	1758.3
50°	4750.5	4190.0	3060.0	2061.1	1749.2	1573.0	1545.8	1491.6	1550.4	1600.1	1649.8
52.5°	4520.0	3819.4	2933.5	1889.4	1622.7	1450.9	1441.9	1414.8	1469.0	1514.2	1559.4
55°	4321.1	3435.2	2730.1	1740.2	1509.7	1347.0	1356.0	1342.4	1387.6	1423.8	1464.5
57.5°	4140.3	3100.7	2472.4	1622.7	1387.6	1256.6	1283.7	1265.6	1288.2	1310.8	1360.5
60°	3923.3	2761.7	2165.1	1491.6	1243.0	1166.2	1197.8	1148.1	1143.6	1152.6	1166.2
62.5°	3602.4	2305.2	1844.2	1328.9	1116.4	1066.7	1080.3	985.4	913.0	913.0	926.6
65°	3154.9	1853.2	1545.8	1148.1	971.8	931.1	922.1	786.5	687.0	678.0	718.7
67.5°	2635.1	1523.2	1283.7	967.3	809.1	782.0	791.0	691.6	592.1	583.1	628.3
70°	2147.0	1261.1	1035.1	772.9	623.8	650.9	691.6	592.1	497.2	483.6	524.3
72.5°	1744.7	1003.4	809.1	592.1	461.0	537.9	587.6	483.6	393.2	384.2	420.4
75°	1347.0	736.8	578.6	402.3	334.5	415.8	461.0	352.6	280.2	266.7	298.3
77.5°	899.5	456.5	325.4	253.1	198.9	284.8	307.4	185.3	162.7	158.2	180.8
80°	546.9	212.4	140.1	122.0	67.8	104.0	122.0	76.8	85.9	90.4	108.5
82.5°	275.7	58.8	22.6	4.5	0.0	0.0	36.2	18.1	36.2	45.2	67.8
85°	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	22.6	40.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2
2.5°	8235.4	8425.2	8606.0	8895.3	9193.6	9487.4	9785.8	10075.0	10179.0	10255.8	10427.6
5°	7286.2	7643.3	8059.1	8633.2	9247.9	9880.7	10522.5	11110.1	11376.8	11557.6	11964.4
7.5°	6305.4	6770.9	7367.6	8230.9	9193.6	10201.6	11209.6	12136.2	12565.5	12913.6	13532.8
10°	5333.6	5839.8	6594.7	7580.0	8881.8	10328.2	11720.3	12994.9	13550.9	13989.3	14830.1
12.5°	4479.3	4953.9	5744.9	6834.2	8393.6	10228.7	12014.1	13546.4	14201.8	14694.5	15616.5
15°	3878.1	4212.6	4913.2	6088.4	7815.0	9907.8	12032.2	13808.5	14527.2	15042.5	15842.5
17.5°	3543.7	3656.7	4113.2	5329.1	7173.2	9487.4	11865.0	13898.9	14667.3	15146.5	15702.4
20°	3362.9	3380.9	3507.5	4343.7	6350.6	9094.2	11706.8	13989.3	14798.4	15200.7	15367.9
22.5°	3218.2	3218.2	3249.9	3552.7	5288.4	8624.1	11657.0	14147.5	14979.2	15227.8	14884.3
25°	3087.1	3087.1	3096.2	3177.5	4190.0	7905.4	11625.4	14391.6	15227.8	15295.6	14350.9
27.5°	2951.5	2956.1	2956.1	3001.3	3376.4	6929.1	11489.8	14708.0	15526.1	15386.0	13840.2
30°	2815.9	2825.0	2825.0	2856.6	2987.7	5785.6	11223.1	15087.7	15914.9	15503.5	13333.9
32.5°	2680.3	2689.4	2689.4	2716.5	2811.4	4619.4	10888.6	15435.7	16308.1	15553.3	12863.9
35°	2540.2	2553.8	2544.7	2580.9	2680.3	3674.7	10463.8	15783.8	16733.0	15711.5	12633.3
37.5°	2400.1	2409.2	2404.6	2440.8	2553.8	3173.0	9971.1	16045.9	17311.5	16064.0	12909.1
40°	2260.0	2255.5	2255.5	2296.2	2418.2	3028.4	9351.8	16461.8	18143.2	16683.3	14111.4
42.5°	2115.4	2115.4	2106.3	2151.5	2300.7	2919.9	8759.7	17207.6	19354.6	17668.6	16244.8
45°	1984.3	1979.8	1961.7	2002.4	2187.7	2730.1	8551.8	18599.7	21144.5	19264.2	18825.7
47.5°	1857.7	1853.2	1808.0	1844.2	2052.1	2558.3	9329.2	20877.8	23625.9	21610.0	21243.9
50°	1744.7	1749.2	1663.4	1695.0	1916.5	2427.2	11015.2	23833.9	26921.0	24769.5	23535.5
52.5°	1640.8	1640.8	1527.8	1545.8	1749.2	2309.7	12619.8	27038.5	31269.2	29176.5	26206.9
55°	1536.8	1527.8	1401.2	1410.2	1582.0	2142.5	12859.3	30166.4	37199.4	35807.3	29859.0
57.5°	1419.3	1401.2	1283.7	1283.7	1428.3	2020.4	11146.3	32571.0	44558.0	45552.4	35124.8
60°	1274.6	1261.1	1184.2	1161.6	1306.3	2128.9	7864.8	32851.2	49304.0	58511.2	45208.9
62.5°	1089.3	1107.4	1066.7	1035.1	1188.8	2210.3	4660.1	30595.8	48155.9	62633.4	57286.2
65°	858.8	931.1	922.1	899.5	1306.3	1862.2	2752.7	26265.6	44634.8	59306.7	54822.9
67.5°	732.2	782.0	768.4	768.4	1369.6	1414.8	1731.2	20520.7	39789.4	55360.7	48969.5
70°	623.8	673.5	623.8	623.8	1035.1	858.8	1197.8	14328.3	34559.8	50994.4	45127.5
72.5°	515.3	565.0	510.8	474.6	827.2	641.8	876.9	8954.1	29596.8	46447.3	42496.9
75°	393.2	452.0	411.3	366.1	546.9	479.1	664.4	5202.5	24520.9	39739.7	38749.8
77.5°	248.6	325.4	307.4	257.6	402.3	348.0	479.1	3096.2	18920.6	31052.3	33330.3
80°	153.7	167.2	171.8	162.7	230.5	235.0	325.4	1762.8	12949.7	21641.7	26039.6
82.5°	99.4	99.4	76.8	85.9	113.0	135.6	185.3	664.4	7611.6	13175.7	18125.1
85°	72.3	63.3	40.7	40.7	54.2	67.8	72.3	203.4	3087.1	5202.5	7087.3
87.5°	36.2	31.6	13.6	18.1	27.1	22.6	18.1	9.0	777.4	1663.4	1166.2
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2	9085.2
2.5°	10518.0	10658.1	10667.2	10667.2	10545.1	10540.6	10292.0	10264.9
5°	12384.7	12475.1	12497.7	12452.5	12208.5	12027.7	11544.0	11440.1
7.5°	14093.3	14274.1	14274.1	14165.6	13767.9	13397.2	12696.6	12434.5
10°	15458.3	15666.3	15621.1	15399.6	14897.9	14387.1	13537.3	13193.8
12.5°	16122.8	16335.2	16217.7	15964.6	15476.4	14938.5	14043.6	13654.9
15°	16109.2	16050.5	15928.4	15896.8	15661.7	15254.9	14418.7	13993.9
17.5°	15535.2	15038.0	14943.1	15259.5	15557.8	15458.3	14744.2	14346.4
20°	14626.7	13758.8	13672.9	14278.6	15128.4	15562.3	15047.0	14680.9
22.5°	13668.4	12732.8	12533.9	13202.9	14482.0	15593.9	15431.2	15065.1
25°	12759.9	11819.8	11620.9	12244.6	13763.3	15539.7	15847.1	15535.2
27.5°	12000.6	11092.0	10906.7	11530.5	13071.8	15386.0	16262.9	16041.4
30°	11413.0	10572.2	10436.6	11037.8	12475.1	15196.2	16791.7	16669.7
32.5°	11069.4	10454.7	10504.4	10997.1	12154.2	14988.3	17298.0	17356.7
35°	11408.4	11435.6	11869.5	12072.9	12452.5	14956.6	17985.0	18215.5
37.5°	13094.4	14034.5	14934.0	14766.8	13912.5	15322.7	19011.0	19440.4
40°	15964.6	17894.6	19354.6	18717.2	16565.7	16443.7	20489.1	21130.9
42.5°	19472.1	22744.5	25149.2	23440.6	19987.4	18405.4	22599.9	23418.0
45°	23173.9	28724.5	32512.2	28959.5	23635.0	21153.5	25795.5	26437.4
47.5°	27074.7	35992.6	40892.3	35079.6	27015.9	24281.3	30152.8	30302.0
50°	31341.6	43961.3	49435.0	41195.1	30279.4	27865.7	35477.3	35305.6
52.5°	35405.0	52156.1	57797.0	47337.8	33145.0	32313.3	41656.1	41303.6
55°	39283.2	60346.3	66208.7	53240.9	35848.0	38189.3	48996.6	46863.2
57.5°	43780.5	67709.3	74878.0	59171.1	39626.7	45819.1	57204.9	50090.4
60°	50429.4	76075.8	84681.9	67298.0	46813.4	53837.5	60147.4	49475.7
62.5°	58918.0	83768.8	91809.9	75262.2	54031.9	55347.2	55812.7	44738.8
65°	60567.8	85716.9	92212.1	77391.1	53100.7	46949.0	45565.9	35961.0
67.5°	56192.4	82195.9	86589.3	73427.1	46971.6	36281.9	34193.7	26089.3
70°	51283.7	75483.7	76790.0	66687.8	41312.6	26686.0	23092.6	16742.0
72.5°	46253.0	66529.6	63826.7	57914.5	36309.0	19431.4	16656.1	11901.1
75°	40277.6	54755.1	50275.8	48119.7	30062.4	15250.4	12050.3	8212.8
77.5°	32254.6	38541.9	37344.1	37298.9	22590.9	11141.8	8041.0	5148.3
80°	22753.6	25013.6	24403.4	28091.7	15155.5	8081.7	4840.9	2865.7
82.5°	11015.2	13831.1	14197.3	16728.5	7372.1	4755.0	1116.4	623.8
85°	4312.1	6671.5	5627.4	6350.6	2070.2	1324.4	27.1	0.0
87.5°	483.6	772.9	709.6	560.5	253.1	54.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)