

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: P957481

Luminaire Tested: **GALN-SB9D-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957481
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-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61511 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

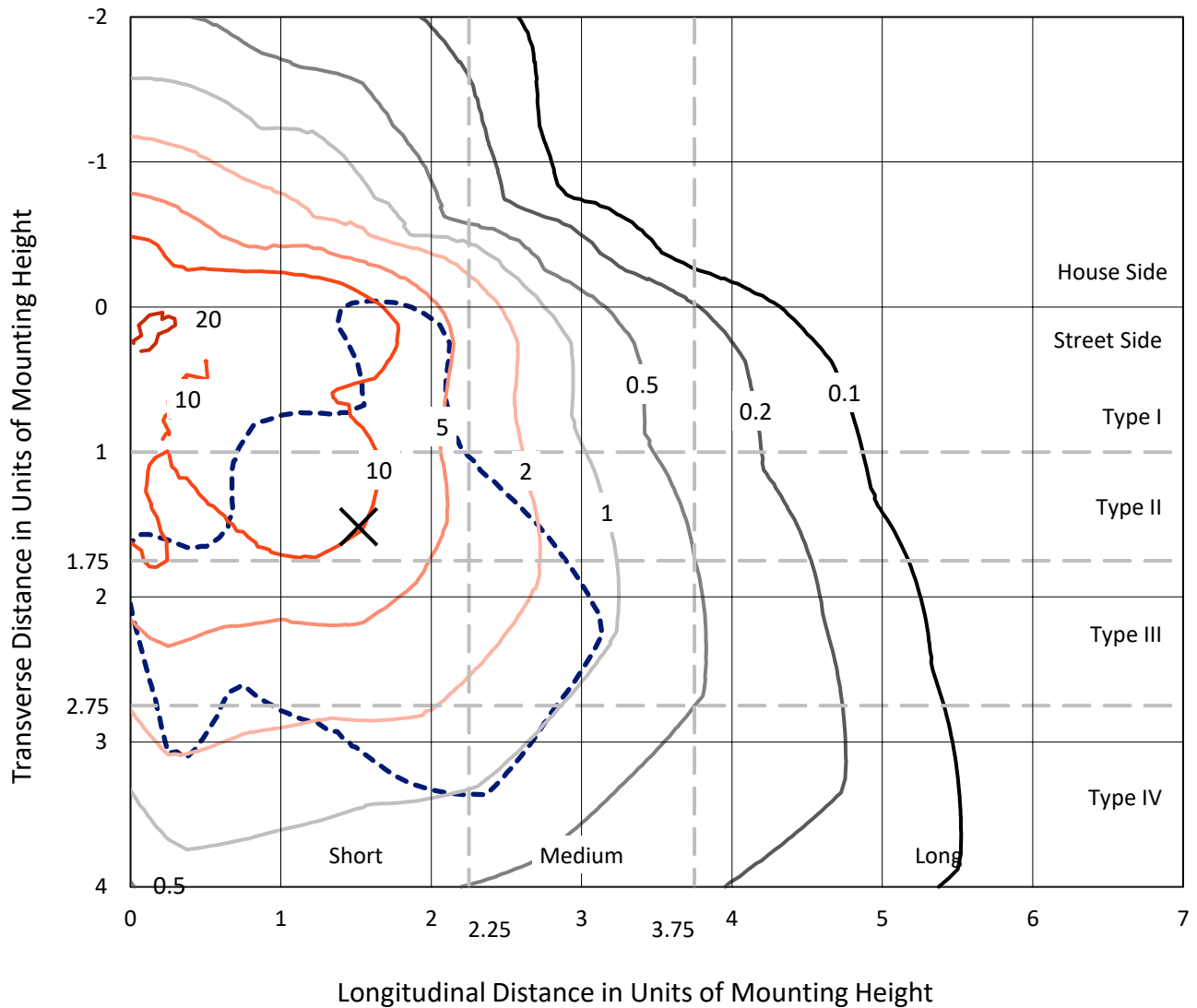
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

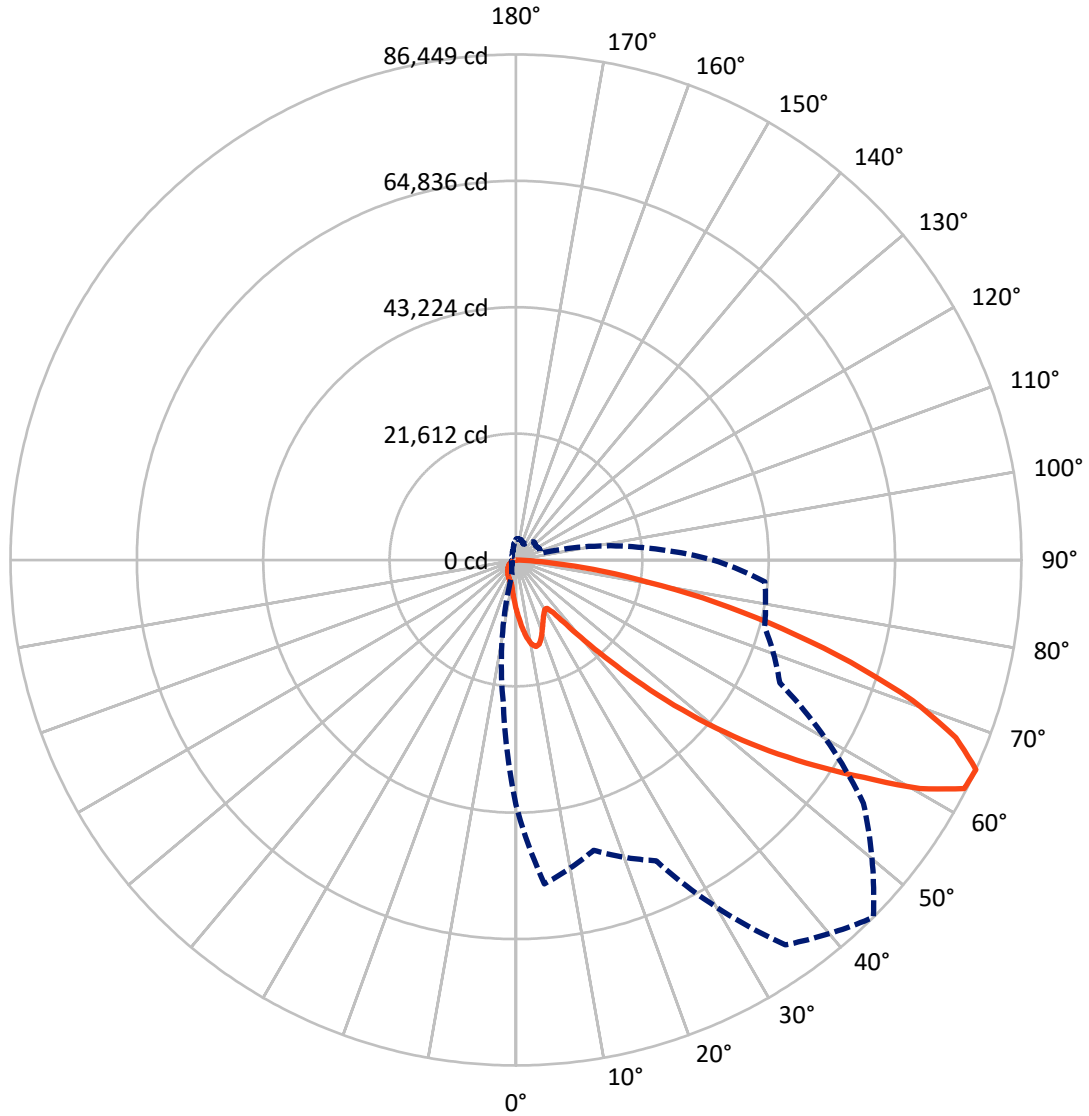
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12226.5	0.0	12226.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	49284.5	0.0	49284.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	61511.0	0.0	61511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.6	1.4
10°-20°	2513.7	4.1
20°-30°	3703.3	6.0
30°-40°	4757.7	7.7
40°-50°	7694.6	12.5
50°-60°	13493.2	21.9
60°-70°	16883.7	27.4
70°-80°	9866.0	16.0
80°-90°	1760.2	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°	61511.0	100.0
0°-180°	61511.0	100.0

Coefficient of Utilization



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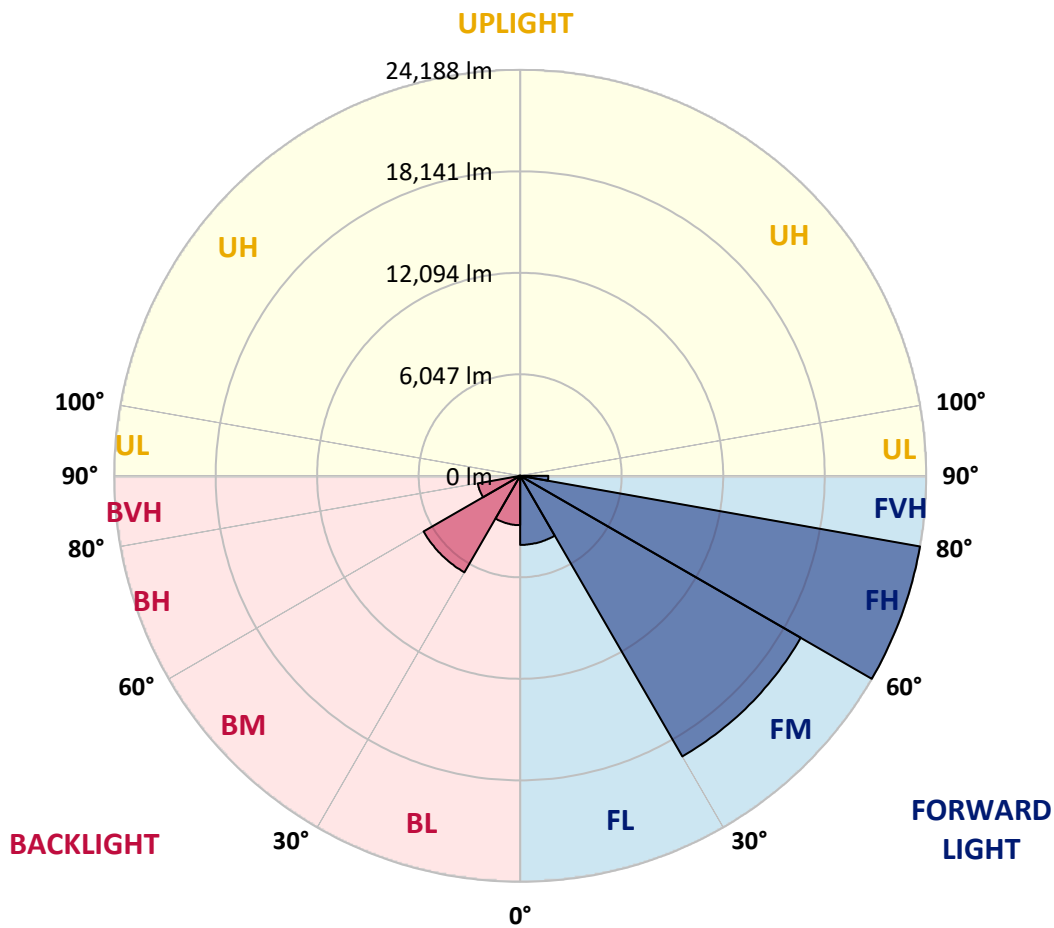
CATALOG NUMBER: GALN-SB9D-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4115.8	6.7			
FM (30°-60°)	19302.9	31.4			
FH (60°-80°)	24188.0	39.3			G5
FVH (80°-90°)	1677.8	2.7			G5
BL (0°-30°)	2939.8	4.8	B4/5000		
BM (30°-60°)	6642.6	10.8	B4/8500		
BH (60°-80°)	2561.7	4.2	B4/5000		G4/5000
BVH (80°-90°)	82.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3
2.5°	9542.8	9614.8	9775.8	9860.6	9991.9	10000.4	10000.4	9886.0	9881.8	9648.7
5°	10665.7	10835.2	11216.6	11610.7	11695.4	11716.6	11674.2	11445.4	11275.9	10822.5
7.5°	11780.2	12106.4	12687.0	13212.4	13381.9	13381.9	13280.2	12907.3	12559.8	11903.0
10°	12703.9	13115.0	13903.1	14492.1	14687.1	14644.7	14437.0	13966.7	13487.9	12691.2
12.5°	13314.1	13776.0	14640.4	15115.0	15314.2	15204.0	14966.7	14509.1	14004.8	13165.8
15°	13619.2	14102.3	14852.3	15102.3	15047.2	14932.8	14903.2	14682.8	14301.4	13517.5
17.5°	13750.6	14199.7	14721.0	14564.2	14098.0	14009.1	14305.7	14585.4	14492.1	13822.6
20°	13873.5	14250.6	14407.4	13712.4	12898.8	12818.3	13386.2	14182.8	14589.6	14106.5
22.5°	14043.0	14276.0	13954.0	12814.1	11936.9	11750.5	12377.6	13576.8	14619.3	14466.7
25°	14276.0	14339.6	13454.0	11962.4	11081.0	10894.5	11479.3	12903.1	14568.4	14856.6
27.5°	14555.7	14424.3	12975.1	11250.5	10398.7	10225.0	10809.8	12254.7	14424.3	15246.4
30°	14920.1	14534.5	12500.5	10699.6	9911.4	9784.3	10347.9	11695.4	14246.4	15742.2
32.5°	15288.8	14581.1	12059.8	10377.6	9801.3	9847.9	10309.8	11394.5	14051.4	16216.8
35°	15687.1	14729.4	11843.7	10695.4	10720.8	11127.6	11318.3	11674.2	14021.8	16860.9
37.5°	16229.5	15060.0	12102.2	12275.9	13157.3	14000.6	13843.8	13042.9	14365.0	17822.8
40°	17009.2	15640.5	13229.4	14966.7	16776.1	18144.8	17547.3	15530.3	15415.9	19208.4
42.5°	18144.8	16564.3	15229.5	18255.0	21322.9	23577.3	21975.5	18738.1	17255.0	21187.3
45°	19822.9	18060.1	17649.0	21725.5	26929.1	30480.1	27149.4	22157.7	19831.3	24183.2
47.5°	22149.2	20259.3	19916.1	25382.4	33742.9	38336.3	32887.0	25327.3	22763.7	28268.1
50°	25238.3	23221.3	22064.5	29382.6	41213.6	46345.2	38620.3	28386.8	26124.0	33259.9
52.5°	29314.8	27352.8	24568.8	33192.1	48896.1	54184.5	44379.0	31073.3	30293.6	39052.5
55°	34874.3	33569.2	27992.7	36827.8	56574.4	62070.4	49913.1	33607.3	35802.3	45934.1
57.5°	41772.9	42705.2	32929.3	41044.1	63477.2	70197.9	55472.7	37149.9	42955.2	53629.4
60°	46222.3	54854.0	42383.1	47277.4	71320.8	79388.9	63091.6	43887.4	50472.4	56388.0
62.5°	45146.0	58718.6	53705.6	55235.4	78532.9	86071.4	70558.0	50654.7	51887.8	52324.2
65°	41845.0	55599.8	51396.2	56782.0	80359.3	86448.5	72553.9	49781.7	44014.6	42717.9
67.5°	37302.4	51900.5	45908.7	52680.2	77058.3	81177.1	68837.6	44035.7	34014.1	32056.4
70°	32399.7	47807.1	42306.9	48078.3	70765.7	71990.3	62519.6	38730.4	25018.0	21649.2
72.5°	27746.9	43544.2	39840.6	43362.0	62371.3	59837.2	54294.6	34039.6	18216.9	15615.1
75°	22988.2	37255.8	36327.8	37760.1	51332.7	47133.3	45112.1	28183.4	14297.2	11297.1
77.5°	17738.0	29111.4	31247.1	30238.6	36132.9	35009.9	34967.6	21178.9	10445.4	7538.5
80°	12140.3	20289.0	24412.0	21331.4	23450.1	22878.1	26335.8	14208.2	7576.6	4538.3
82.5°	7135.9	12352.2	16992.2	10326.7	12966.6	13309.9	15682.9	6911.3	4457.8	1046.7
85°	2894.2	4877.3	6644.3	4042.5	6254.5	5275.6	5953.6	1940.8	1241.6	25.4
87.5°	728.8	1559.4	1093.3	453.4	724.6	665.3	525.4	237.3	50.8	0.0
90°	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°
8517.3	0°	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3
9623.3	2.5°	9458.0	9360.6	9119.0	8877.5	8682.6	8419.8	8246.1	8038.5	7839.3	7661.3
10725.0	5°	10458.1	10136.0	9695.3	9292.8	8881.7	8483.4	8089.3	7674.0	7292.7	7059.6
11657.3	7.5°	11271.7	10703.8	10119.1	9606.3	9110.6	8644.4	8123.2	7619.0	7021.5	6703.7
12369.2	10°	11877.6	11131.8	10364.8	9775.8	9275.8	8822.4	8381.7	7873.2	7152.8	6754.5
12801.4	12.5°	12275.9	11390.3	10492.0	9818.2	9258.9	8907.2	8712.2	8513.1	7796.9	7330.8
13119.2	15°	12551.4	11572.5	10581.0	9720.7	9034.3	8775.8	8970.7	9199.5	8741.9	8203.7
13449.7	17.5°	12852.2	11809.8	10619.1	9458.0	8597.8	8487.6	8991.9	9521.6	9500.4	8966.5
13763.3	20°	13170.0	12017.5	10593.7	9034.3	8068.1	8165.6	8809.7	9424.1	9682.6	9394.5
14123.5	22.5°	13496.3	12216.6	10496.2	8483.4	7572.4	7877.4	8521.5	9059.7	9364.8	9275.8
14564.2	25°	13907.4	12496.3	10352.1	7890.2	7161.3	7585.1	8186.8	8623.2	8835.1	8830.9
15038.8	27.5°	14398.9	12869.2	10275.9	7411.3	6868.9	7254.5	7788.5	8178.3	8326.6	8326.6
15627.8	30°	14971.0	13309.9	10191.1	7097.8	6699.4	6911.3	7326.6	7707.9	7856.3	7856.3
16271.9	32.5°	15606.6	13733.6	9987.7	6907.1	6572.3	6576.5	6839.3	7186.7	7364.7	7390.1
17077.0	35°	16369.3	14187.0	9542.8	6754.5	6424.0	6250.3	6377.4	6665.5	6877.4	6932.5
18225.3	37.5°	17369.4	14742.1	8907.2	6529.9	6195.2	5907.0	5936.7	6157.0	6390.1	6474.8
19810.2	40°	18712.6	15394.7	8246.1	6207.9	5873.1	5529.9	5517.2	5678.2	5907.0	6000.3
21954.3	42.5°	20488.1	16178.6	7614.7	5898.6	5483.3	5131.6	5110.4	5237.5	5436.7	5534.1
24784.9	45°	22759.4	17140.5	7072.3	5657.0	5101.9	4754.4	4746.0	4851.9	5025.6	5127.3
28408.0	47.5°	25916.3	18102.5	6703.7	5529.9	4801.0	4445.1	4462.1	4555.3	4712.1	4784.1
33098.8	50°	30030.9	18394.8	6517.2	5529.9	4640.0	4169.7	4254.4	4330.7	4449.3	4491.7
38722.0	52.5°	33980.2	17428.7	6347.7	5563.8	4661.2	3936.6	4118.8	4173.9	4275.6	4292.6
43934.0	55°	35916.8	14983.7	6114.7	5572.3	4792.6	3737.4	4008.6	4110.3	4148.5	4144.2
46959.6	57.5°	35251.5	12114.9	5720.6	5538.4	4881.6	3610.3	3873.0	4068.0	4093.4	4055.3
46383.3	60°	32916.6	8919.9	5419.7	5288.4	4847.7	3572.2	3665.4	3974.7	4012.9	3962.0
41942.4	62.5°	29001.2	6190.9	5186.7	4737.5	4699.3	3559.5	3339.1	3771.3	3864.6	3792.5
33713.3	65°	22831.5	4373.1	4466.3	4152.7	4377.3	3491.7	3000.1	3525.6	3652.7	3542.5
24458.6	67.5°	15449.8	3156.9	3618.8	3762.9	3856.1	3339.1	2754.4	3245.9	3415.4	3271.3
15695.6	70°	8343.6	2216.2	2389.9	3169.6	3275.6	3076.4	2534.0	2962.0	3156.9	3000.1
11157.2	72.5°	4928.2	1593.3	1673.8	2546.7	2728.9	2707.7	2288.2	2631.5	2868.8	2682.3
7699.5	75°	2716.2	1076.3	1195.0	1847.5	2216.2	2089.1	1966.2	2228.9	2470.4	2288.2
4826.5	77.5°	1216.2	644.1	830.5	1211.9	1741.6	1432.3	1521.3	1737.4	1961.9	1771.3
2686.6	80°	470.4	360.2	550.9	661.0	1267.0	792.4	978.9	1279.7	1440.7	1288.2
584.8	82.5°	59.3	161.0	237.3	258.5	737.3	419.5	567.8	805.1	792.4	686.5
0.0	85°	0.0	29.7	33.9	16.9	317.8	152.5	186.4	262.7	245.8	186.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
8517.3	0°	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3
7627.4	2.5°	7419.8	7267.3	7191.0	7127.4	7186.7	7220.6	7220.6	7364.7	7449.5	7483.4
6911.3	5°	6538.4	6254.5	6063.8	5949.4	5987.5	6029.9	6076.5	6258.7	6381.6	6462.1
6415.5	7.5°	5843.5	5411.2	5144.3	5004.4	5025.6	5055.3	5093.4	5271.4	5394.3	5500.2
6322.3	10°	5500.2	4890.0	4538.3	4368.8	4339.2	4322.2	4309.5	4415.4	4508.7	4593.4
6703.7	12.5°	5517.2	4665.4	4237.5	4029.8	3940.8	3839.1	3758.6	3775.6	3834.9	3940.8
7385.9	15°	5733.3	4593.4	4080.7	3822.2	3673.9	3555.2	3457.8	3436.6	3457.8	3474.7
8165.6	17.5°	6025.7	4584.9	3945.1	3623.0	3470.5	3373.0	3284.0	3254.4	3258.6	3279.8
8682.6	20°	6258.7	4559.5	3792.5	3432.3	3296.7	3212.0	3123.0	3093.3	3101.8	3106.1
8733.4	22.5°	6381.6	4521.4	3623.0	3241.7	3127.2	3042.5	2962.0	2957.8	2957.8	2983.2
8458.0	25°	6381.6	4440.9	3470.5	3059.4	2957.8	2881.5	2784.0	2801.0	2809.4	2843.3
8030.0	27.5°	6229.1	4288.3	3347.6	2902.7	2796.7	2720.5	2631.5	2652.7	2665.4	2703.5
7606.3	30°	6034.2	4106.1	3207.8	2754.4	2631.5	2576.4	2500.1	2508.6	2525.5	2567.9
7212.2	32.5°	5826.5	3890.0	3093.3	2606.0	2483.2	2440.8	2356.0	2368.7	2385.7	2432.3
6822.3	35°	5597.7	3635.7	2957.8	2470.4	2347.6	2313.7	2216.2	2224.7	2250.1	2300.9
6402.8	37.5°	5356.2	3428.1	2822.2	2339.1	2212.0	2178.1	2076.4	2084.8	2114.5	2173.8
5962.1	40°	5118.9	3224.7	2678.1	2199.2	2072.1	2042.5	1932.3	1940.8	1974.7	2038.2
5517.2	42.5°	4860.4	3067.9	2491.6	2055.2	1919.6	1889.9	1788.2	1800.9	1839.1	1902.6
5106.1	45°	4551.0	2966.2	2284.0	1919.6	1767.0	1737.4	1644.1	1669.6	1711.9	1775.5
4754.4	47.5°	4233.2	2923.9	2110.3	1775.5	1610.2	1584.8	1508.5	1550.9	1597.5	1648.4
4453.6	50°	3928.1	2868.8	1932.3	1639.9	1474.6	1449.2	1398.4	1453.5	1500.1	1546.7
4237.5	52.5°	3580.7	2750.1	1771.3	1521.3	1360.2	1351.8	1326.3	1377.2	1419.6	1461.9
4051.0	55°	3220.5	2559.4	1631.4	1415.3	1262.8	1271.2	1258.5	1300.9	1334.8	1372.9
3881.5	57.5°	2906.9	2317.9	1521.3	1300.9	1178.0	1203.4	1186.5	1207.7	1228.9	1275.5
3678.1	60°	2589.1	2029.7	1398.4	1165.3	1093.3	1122.9	1076.3	1072.1	1080.6	1093.3
3377.3	62.5°	2161.1	1728.9	1245.8	1046.7	1000.0	1012.8	923.8	856.0	856.0	868.7
2957.8	65°	1737.4	1449.2	1076.3	911.1	872.9	864.4	737.3	644.1	635.6	673.8
2470.4	67.5°	1428.0	1203.4	906.8	758.5	733.1	741.6	648.3	555.1	546.6	589.0
2012.8	70°	1182.3	970.4	724.6	584.8	610.2	648.3	555.1	466.1	453.4	491.5
1635.7	72.5°	940.7	758.5	555.1	432.2	504.3	550.9	453.4	368.7	360.2	394.1
1262.8	75°	690.7	542.4	377.1	313.6	389.8	432.2	330.5	262.7	250.0	279.7
843.3	77.5°	428.0	305.1	237.3	186.4	267.0	288.1	173.7	152.5	148.3	169.5
512.7	80°	199.2	131.4	114.4	63.6	97.5	114.4	72.0	80.5	84.7	101.7
258.5	82.5°	55.1	21.2	4.2	0.0	0.0	33.9	16.9	33.9	42.4	63.6
21.2	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	21.2	38.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.9
0.0	90°	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°	360°
8517.3	0°	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3	8517.3
7720.7	2.5°	7898.6	8068.1	8339.3	8619.0	8894.4	9174.1	9445.3	9542.8
6830.8	5°	7165.6	7555.4	8093.6	8669.9	9263.1	9864.8	10415.7	10665.7
5911.3	7.5°	6347.7	6907.1	7716.4	8619.0	9564.0	10508.9	11377.6	11780.2
5000.2	10°	5474.8	6182.5	7106.2	8326.6	9682.6	10987.7	12182.7	12703.9
4199.3	12.5°	4644.3	5385.8	6407.0	7869.0	9589.4	11263.2	12699.7	13314.1
3635.7	15°	3949.3	4606.1	5707.9	7326.6	9288.5	11280.1	12945.5	13619.2
3322.2	17.5°	3428.1	3856.1	4996.0	6724.9	8894.4	11123.3	13030.2	13750.6
3152.7	20°	3169.6	3288.3	4072.2	5953.6	8525.8	10975.0	13115.0	13873.5
3017.1	22.5°	3017.1	3046.7	3330.6	4957.8	8085.1	10928.4	13263.3	14043.0
2894.2	25°	2894.2	2902.7	2978.9	3928.1	7411.3	10898.8	13492.1	14276.0
2767.1	27.5°	2771.3	2771.3	2813.7	3165.4	6496.0	10771.6	13788.7	14555.7
2639.9	30°	2648.4	2648.4	2678.1	2801.0	5424.0	10521.6	14144.7	14920.1
2512.8	32.5°	2521.3	2521.3	2546.7	2635.7	4330.7	10208.1	14470.9	15288.8
2381.5	35°	2394.2	2385.7	2419.6	2512.8	3445.1	9809.7	14797.2	15687.1
2250.1	37.5°	2258.6	2254.3	2288.2	2394.2	2974.7	9347.8	15043.0	16229.5
2118.7	40°	2114.5	2114.5	2152.6	2267.0	2839.1	8767.3	15432.8	17009.2
1983.1	42.5°	1983.1	1974.7	2017.0	2156.9	2737.4	8212.2	16132.0	18144.8
1860.2	45°	1856.0	1839.1	1877.2	2050.9	2559.4	8017.3	17437.2	19822.9
1741.6	47.5°	1737.4	1695.0	1728.9	1923.8	2398.4	8746.1	19572.9	22149.2
1635.7	50°	1639.9	1559.4	1589.0	1796.7	2275.5	10326.7	22344.2	25238.3
1538.2	52.5°	1538.2	1432.3	1449.2	1639.9	2165.3	11831.0	25348.5	29314.8
1440.7	55°	1432.3	1313.6	1322.1	1483.1	2008.6	12055.6	28280.8	34874.3
1330.6	57.5°	1313.6	1203.4	1203.4	1339.0	1894.1	10449.6	30535.2	41772.9
1195.0	60°	1182.3	1110.2	1089.0	1224.6	1995.8	7373.2	30797.9	46222.3
1021.2	62.5°	1038.2	1000.0	970.4	1114.5	2072.1	4368.8	28683.4	45146.0
805.1	65°	872.9	864.4	843.3	1224.6	1745.8	2580.6	24623.9	41845.0
686.5	67.5°	733.1	720.4	720.4	1284.0	1326.3	1622.9	19238.1	37302.4
584.8	70°	631.4	584.8	584.8	970.4	805.1	1122.9	13432.8	32399.7
483.1	72.5°	529.7	478.8	444.9	775.5	601.7	822.1	8394.4	27746.9
368.7	75°	423.7	385.6	343.2	512.7	449.2	622.9	4877.3	22988.2
233.1	77.5°	305.1	288.1	241.5	377.1	326.3	449.2	2902.7	17738.0
144.1	80°	156.8	161.0	152.5	216.1	220.3	305.1	1652.6	12140.3
93.2	82.5°	93.2	72.0	80.5	105.9	127.1	173.7	622.9	7135.9
67.8	85°	59.3	38.1	38.1	50.8	63.6	67.8	190.7	2894.2
33.9	87.5°	29.7	12.7	16.9	25.4	21.2	16.9	8.5	728.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)