

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: P957124

Luminaire Tested: **GALN-SB9C-827-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957124
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-SB9C-827-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA 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: 45270 lumens
Efficiency: N/A
Efficacy: 100.6 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

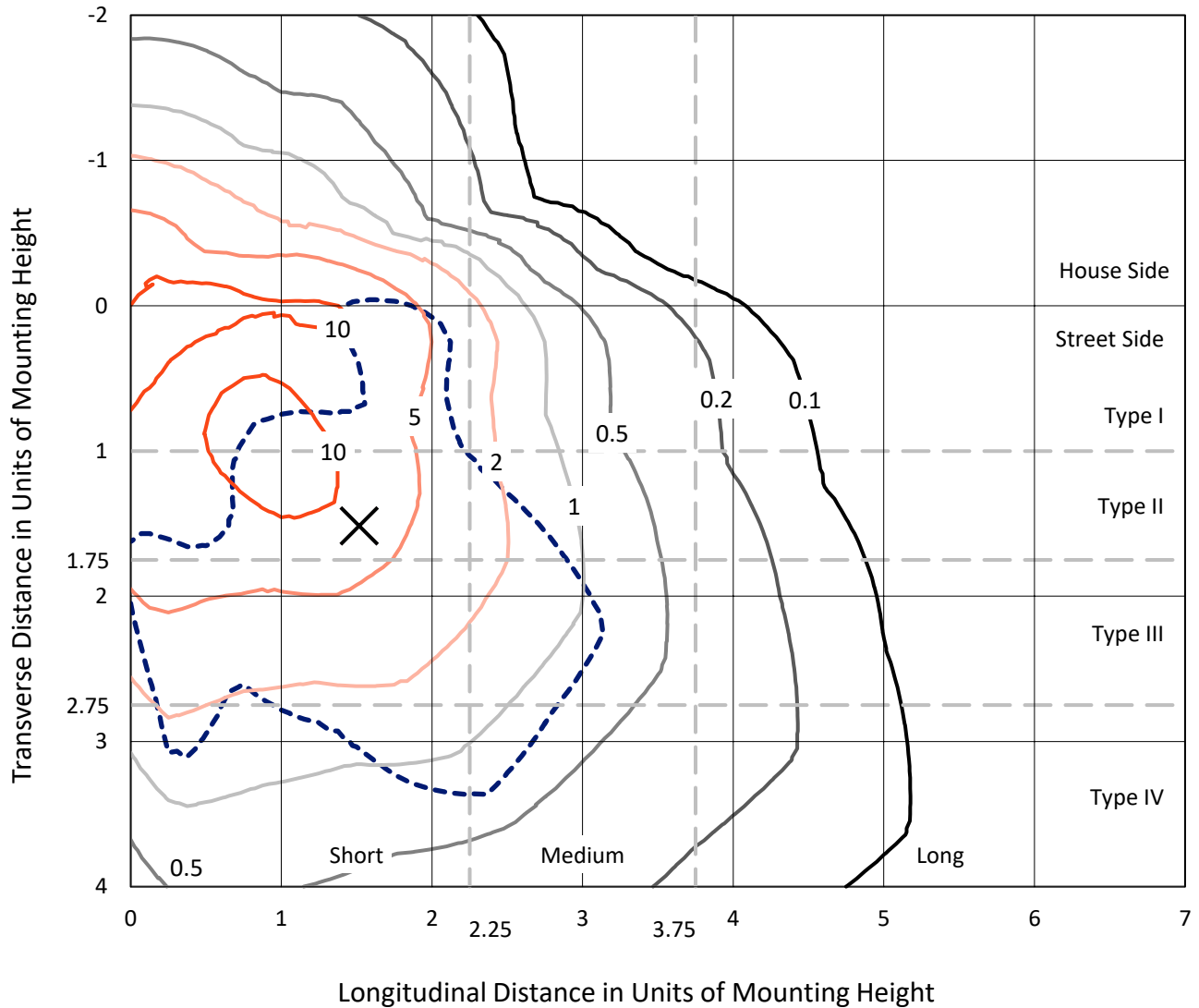
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

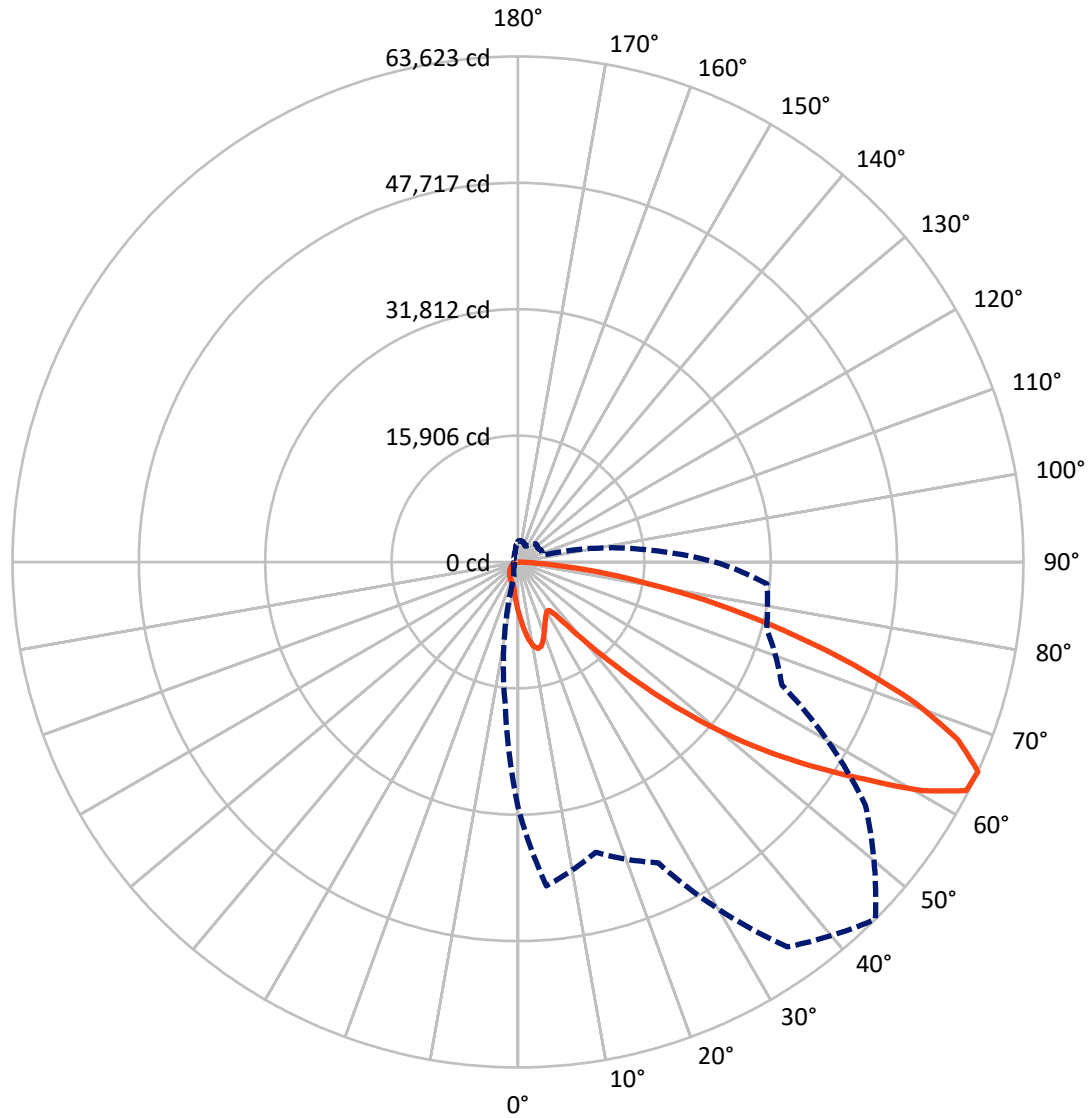
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	8998.3	0.0	8998.3
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	36271.7	0.0	36271.7
	% Fixture	80.1	0.0	80.1
Total	Lumens	45270.0	0.0	45270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	617.2	1.4
10°-20°	1850.0	4.1
20°-30°	2725.5	6.0
30°-40°	3501.5	7.7
40°-50°	5663.0	12.5
50°-60°	9930.5	21.9
60°-70°	12425.8	27.4
70°-80°	7261.1	16.0
80°-90°	1295.5	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°	45270.0	100.0
0°-180°	45270.0	100.0

Coefficient of Utilization



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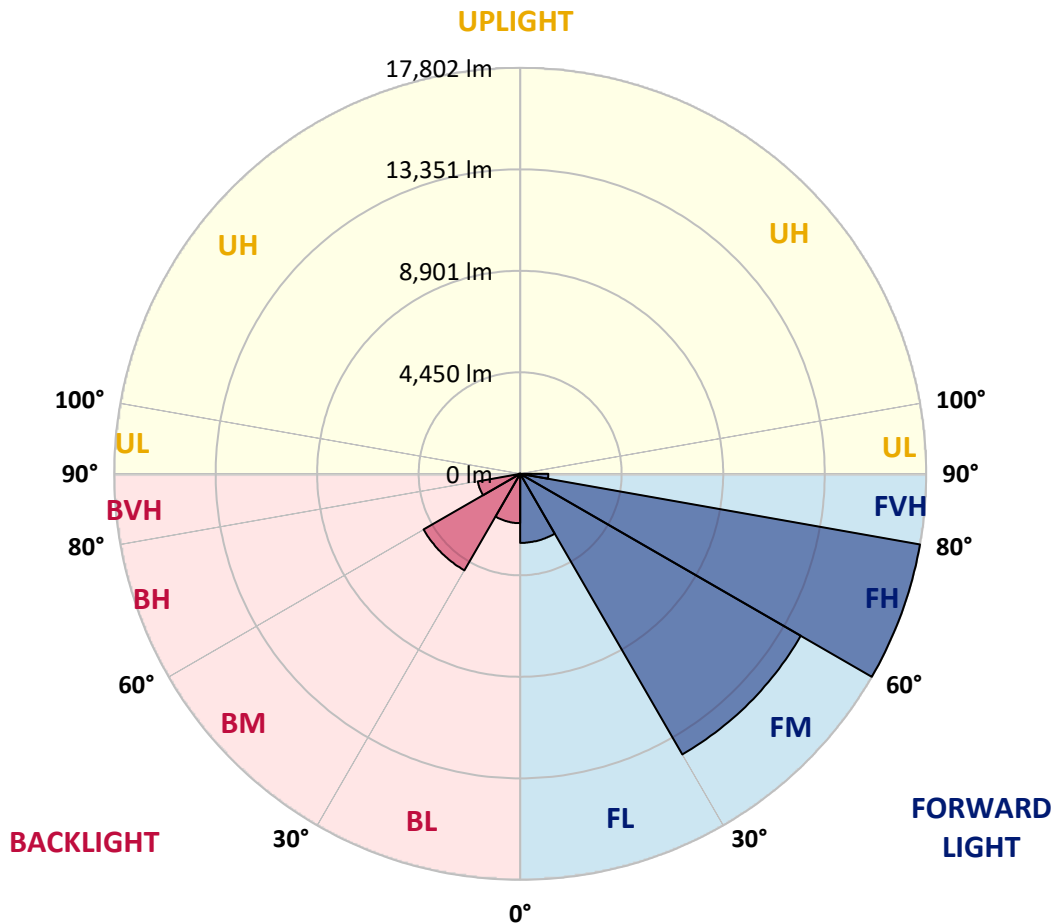
CATALOG NUMBER: GALN-SB9C-827-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3029.1	6.7			
FM (30°-60°)	14206.3	31.4			
FH (60°-80°)	17801.6	39.3			G5
FVH (80°-90°)	1234.8	2.7			G5
BL (0°-30°)	2163.6	4.8	B3/2500		
BM (30°-60°)	4888.7	10.8	B3/5000		
BH (60°-80°)	1885.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	60.7	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°
0°	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4
2.5°	7023.2	7076.2	7194.7	7257.1	7353.7	7360.0	7360.0	7275.8	7272.6	7101.1
5°	7849.6	7974.3	8255.0	8545.0	8607.4	8623.0	8591.8	8423.4	8298.7	7965.0
7.5°	8669.8	8909.9	9337.2	9723.9	9848.6	9848.6	9773.8	9499.3	9243.6	8760.2
10°	9349.7	9652.2	10232.2	10665.7	10809.2	10778.0	10625.2	10279.0	9926.6	9340.3
12.5°	9798.7	10138.7	10774.9	11124.2	11270.7	11189.6	11015.0	10678.2	10307.1	9689.6
15°	10023.3	10378.8	10930.8	11114.8	11074.3	10990.1	10968.2	10806.1	10525.4	9948.4
17.5°	10120.0	10450.5	10834.1	10718.7	10375.7	10310.2	10528.5	10734.3	10665.7	10173.0
20°	10210.4	10488.0	10603.3	10091.9	9493.1	9433.9	9851.8	10438.1	10737.4	10381.9
22.5°	10335.1	10506.7	10269.6	9430.7	8785.2	8648.0	9109.5	9992.1	10759.3	10647.0
25°	10506.7	10553.4	9901.7	8803.9	8155.2	8018.0	8448.4	9496.2	10721.9	10933.9
27.5°	10712.5	10615.8	9549.2	8280.0	7653.1	7525.3	7955.6	9019.1	10615.8	11220.8
30°	10980.7	10696.9	9200.0	7874.5	7294.5	7200.9	7615.7	8607.4	10484.8	11585.7
32.5°	11252.0	10731.2	8875.6	7637.5	7213.4	7247.7	7587.6	8386.0	10341.4	11935.0
35°	11545.2	10840.4	8716.6	7871.4	7890.1	8189.5	8329.9	8591.8	10319.5	12409.0
37.5°	11944.4	11083.6	8906.8	9034.7	9683.3	10304.0	10188.6	9599.1	10572.2	13117.0
40°	12518.2	11510.9	9736.4	11015.0	12346.7	13354.0	12914.2	11429.8	11345.6	14136.8
42.5°	13354.0	12190.7	11208.4	13435.1	15692.9	17352.1	16173.2	13790.6	12699.1	15593.2
45°	14589.0	13291.6	12989.1	15989.2	19818.9	22432.3	19981.1	16307.3	14595.2	17798.0
47.5°	16301.1	14910.2	14657.6	18680.6	24833.7	28214.2	24203.7	18640.1	16753.3	20804.4
50°	18574.6	17090.1	16238.7	21624.6	30331.8	34108.5	28423.2	20891.7	19226.4	24478.1
52.5°	21574.7	20130.8	18081.8	24428.2	35985.9	39877.9	32661.4	22868.9	22295.1	28741.3
55°	25666.3	24705.8	20601.7	27104.0	41636.8	45681.7	36734.3	24733.9	26349.3	33806.0
57.5°	30743.5	31429.6	24234.9	30207.1	46717.1	51663.2	40826.0	27341.0	31613.6	39469.4
60°	34018.0	40370.7	31192.5	34794.6	52489.7	58427.5	46433.3	32299.7	37146.0	41499.6
62.5°	33225.9	43214.9	39525.5	40651.3	57797.6	63345.6	51928.3	37280.1	38187.6	38508.8
65°	30796.5	40919.5	37825.9	41789.6	59141.7	63623.2	53397.2	36637.7	32393.2	31438.9
67.5°	27453.3	38197.0	33787.2	38770.8	56712.3	59743.6	50662.1	32408.8	25033.2	23592.4
70°	23845.0	35184.4	31136.4	35384.0	52081.1	52982.4	46012.3	28504.3	18412.4	15933.1
72.5°	20420.8	32047.0	29321.4	31912.9	45903.1	44038.2	39959.0	25052.0	13407.0	11492.2
75°	16918.6	27419.0	26736.0	27790.1	37779.1	34688.5	33200.9	20742.0	10522.3	8314.3
77.5°	13054.6	21425.0	22996.8	22254.5	26592.6	25766.1	25734.9	15586.9	7687.4	5548.0
80°	8934.9	14932.0	17966.4	15699.2	17258.5	16837.5	19382.3	10456.8	5576.1	3340.1
82.5°	5251.8	9090.8	12505.7	7600.1	9543.0	9795.6	11542.0	5086.5	3280.8	770.3
85°	2130.0	3589.5	4890.0	2975.2	4603.1	3882.7	4381.7	1428.3	913.8	18.7
87.5°	536.4	1147.7	804.6	333.7	533.3	489.6	386.7	174.6	37.4	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°
6268.4	0°	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4
7082.4	2.5°	6960.8	6889.1	6711.3	6533.5	6390.1	6196.7	6068.9	5916.0	5769.5	5638.5
7893.3	5°	7696.8	7459.8	7135.4	6839.2	6536.6	6243.5	5953.5	5647.8	5367.2	5195.6
8579.4	7.5°	8295.6	7877.7	7447.3	7069.9	6705.1	6362.0	5978.4	5607.3	5167.6	4933.7
9103.3	10°	8741.5	8192.6	7628.2	7194.7	6826.7	6493.0	6168.7	5794.4	5264.2	4971.1
9421.4	12.5°	9034.7	8382.9	7721.7	7225.9	6814.2	6555.4	6411.9	6265.3	5738.3	5395.2
9655.3	15°	9237.4	8517.0	7787.2	7154.1	6648.9	6458.7	6602.1	6770.5	6433.7	6037.7
9898.5	17.5°	9458.8	8691.6	7815.3	6960.8	6327.7	6246.6	6617.7	7007.6	6992.0	6599.0
10129.3	20°	9692.7	8844.4	7796.6	6648.9	5937.9	6009.6	6483.6	6935.8	7126.1	6914.0
10394.4	22.5°	9932.8	8991.0	7724.8	6243.5	5573.0	5797.5	6271.6	6667.6	6892.2	6826.7
10718.7	25°	10235.3	9196.8	7618.8	5806.9	5270.5	5582.3	6025.2	6346.4	6502.3	6499.2
11068.0	27.5°	10597.1	9471.3	7562.7	5454.5	5055.3	5339.1	5732.0	6019.0	6128.1	6128.1
11501.5	30°	11018.1	9795.6	7500.3	5223.7	4930.6	5086.5	5392.1	5672.8	5781.9	5781.9
11975.5	32.5°	11485.9	10107.5	7350.6	5083.4	4837.0	4840.1	5033.5	5289.2	5420.2	5438.9
12568.1	35°	12047.3	10441.2	7023.2	4971.1	4727.8	4600.0	4693.5	4905.6	5061.5	5102.1
13413.2	37.5°	12783.3	10849.7	6555.4	4805.8	4559.4	4347.4	4369.2	4531.4	4702.9	4765.3
14579.6	40°	13771.9	11330.0	6068.9	4568.8	4322.4	4069.8	4060.5	4179.0	4347.4	4416.0
16157.6	42.5°	15078.6	11906.9	5604.2	4341.1	4035.5	3776.7	3761.1	3854.6	4001.2	4072.9
18240.9	45°	16750.2	12614.9	5205.0	4163.4	3754.8	3499.1	3492.9	3570.8	3698.7	3773.5
20907.3	47.5°	19073.5	13322.8	4933.7	4069.8	3533.4	3271.4	3283.9	3352.5	3467.9	3520.9
24359.6	50°	22101.7	13538.0	4796.5	4069.8	3414.9	3068.7	3131.1	3187.2	3274.6	3305.7
28498.0	52.5°	25008.3	12826.9	4671.7	4094.8	3430.5	2897.2	3031.3	3071.9	3146.7	3159.2
32334.0	55°	26433.5	11027.5	4500.2	4101.0	3527.2	2750.6	2950.2	3025.1	3053.1	3050.0
34560.7	57.5°	25943.9	8916.2	4210.2	4076.0	3592.7	2657.1	2850.4	2993.9	3012.6	2984.5
34136.5	60°	24225.5	6564.7	3988.7	3892.1	3567.7	2629.0	2697.6	2925.3	2953.3	2915.9
30868.2	62.5°	21343.9	4556.3	3817.2	3486.6	3458.6	2619.6	2457.5	2775.6	2844.2	2791.2
24811.8	65°	16803.2	3218.4	3287.0	3056.3	3221.5	2569.8	2208.0	2594.7	2688.3	2607.2
18000.7	67.5°	11370.5	2323.4	2663.3	2769.3	2838.0	2457.5	2027.1	2388.9	2513.6	2407.6
11551.4	70°	6140.6	1631.0	1758.9	2332.7	2410.7	2264.1	1864.9	2179.9	2323.4	2208.0
8211.4	72.5°	3627.0	1172.6	1231.9	1874.3	2008.4	1992.8	1684.1	1936.7	2111.3	1974.1
5666.6	75°	1999.0	792.1	879.5	1359.7	1631.0	1537.5	1447.0	1640.4	1818.2	1684.1
3552.1	77.5°	895.0	474.0	611.3	891.9	1281.8	1054.1	1119.6	1278.6	1443.9	1303.6
1977.2	80°	346.2	265.1	405.4	486.5	932.5	583.2	720.4	941.8	1060.3	948.1
430.4	82.5°	43.7	118.5	174.6	190.2	542.6	308.7	417.9	592.5	583.2	505.2
0.0	85°	0.0	21.8	24.9	12.5	233.9	112.3	137.2	193.4	180.9	137.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	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°
6268.4	0°	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4
5613.5	2.5°	5460.7	5348.5	5292.3	5245.5	5289.2	5314.1	5314.1	5420.2	5482.6	5507.5
5086.5	5°	4812.0	4603.1	4462.8	4378.6	4406.6	4437.8	4472.1	4606.2	4696.7	4755.9
4721.6	7.5°	4300.6	3982.5	3786.0	3683.1	3698.7	3720.5	3748.6	3879.6	3970.0	4048.0
4653.0	10°	4048.0	3598.9	3340.1	3215.3	3193.5	3181.0	3171.6	3249.6	3318.2	3380.6
4933.7	12.5°	4060.5	3433.6	3118.6	2965.8	2900.3	2825.5	2766.2	2778.7	2822.4	2900.3
5435.8	15°	4219.5	3380.6	3003.2	2813.0	2703.9	2616.5	2544.8	2529.2	2544.8	2557.3
6009.6	17.5°	4434.7	3374.4	2903.4	2666.4	2554.2	2482.4	2416.9	2395.1	2398.2	2413.8
6390.1	20°	4606.2	3355.6	2791.2	2526.1	2426.3	2363.9	2298.4	2276.6	2282.8	2286.0
6427.5	22.5°	4696.7	3327.6	2666.4	2385.8	2301.5	2239.2	2179.9	2176.8	2176.8	2195.5
6224.8	25°	4696.7	3268.3	2554.2	2251.7	2176.8	2120.7	2048.9	2061.4	2067.7	2092.6
5909.8	27.5°	4584.4	3156.1	2463.7	2136.3	2058.3	2002.2	1936.7	1952.3	1961.6	1989.7
5597.9	30°	4440.9	3022.0	2360.8	2027.1	1936.7	1896.1	1840.0	1846.2	1858.7	1889.9
5307.9	32.5°	4288.1	2862.9	2276.6	1918.0	1827.5	1796.3	1734.0	1743.3	1755.8	1790.1
5021.0	35°	4119.7	2675.8	2176.8	1818.2	1727.7	1702.8	1631.0	1637.3	1656.0	1693.4
4712.3	37.5°	3941.9	2523.0	2077.0	1721.5	1627.9	1603.0	1528.1	1534.4	1556.2	1599.9
4387.9	40°	3767.3	2373.3	1971.0	1618.6	1525.0	1503.2	1422.1	1428.3	1453.3	1500.1
4060.5	42.5°	3577.1	2257.9	1833.8	1512.5	1412.7	1390.9	1316.1	1325.4	1353.5	1400.3
3757.9	45°	3349.4	2183.0	1680.9	1412.7	1300.5	1278.6	1210.0	1228.7	1259.9	1306.7
3499.1	47.5°	3115.5	2151.9	1553.1	1306.7	1185.1	1166.4	1110.2	1141.4	1175.7	1213.1
3277.7	50°	2891.0	2111.3	1422.1	1206.9	1085.3	1066.6	1029.1	1069.7	1104.0	1138.3
3118.6	52.5°	2635.2	2024.0	1303.6	1119.6	1001.1	994.8	976.1	1013.6	1044.7	1075.9
2981.4	55°	2370.2	1883.7	1200.7	1041.6	929.4	935.6	926.2	957.4	982.4	1010.4
2856.7	57.5°	2139.4	1705.9	1119.6	957.4	867.0	885.7	873.2	888.8	904.4	938.7
2707.0	60°	1905.5	1493.8	1029.1	857.6	804.6	826.4	792.1	789.0	795.3	804.6
2485.5	62.5°	1590.5	1272.4	916.9	770.3	736.0	745.4	679.9	630.0	630.0	639.3
2176.8	65°	1278.6	1066.6	792.1	670.5	642.4	636.2	542.6	474.0	467.8	495.9
1818.2	67.5°	1051.0	885.7	667.4	558.2	539.5	545.8	477.2	408.5	402.3	433.5
1481.3	70°	870.1	714.2	533.3	430.4	449.1	477.2	408.5	343.0	333.7	361.8
1203.8	72.5°	692.3	558.2	408.5	318.1	371.1	405.4	333.7	271.3	265.1	290.0
929.4	75°	508.3	399.2	277.6	230.8	286.9	318.1	243.3	193.4	184.0	205.8
620.6	77.5°	315.0	224.5	174.6	137.2	196.5	212.1	127.9	112.3	109.2	124.7
377.4	80°	146.6	96.7	84.2	46.8	71.7	84.2	53.0	59.3	62.4	74.8
190.2	82.5°	40.5	15.6	3.1	0.0	0.0	24.9	12.5	24.9	31.2	46.8
15.6	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2	15.6	28.1
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5
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°
6268.4	0°	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4	6268.4
5682.1	2.5°	5813.1	5937.9	6137.5	6343.3	6546.0	6751.8	6951.4	7023.2
5027.2	5°	5273.6	5560.5	5956.6	6380.7	6817.3	7260.2	7665.6	7849.6
4350.5	7.5°	4671.7	5083.4	5679.0	6343.3	7038.7	7734.2	8373.5	8669.8
3680.0	10°	4029.3	4550.1	5229.9	6128.1	7126.1	8086.6	8966.1	9349.7
3090.6	12.5°	3418.0	3963.8	4715.4	5791.3	7057.5	8289.3	9346.5	9798.7
2675.8	15°	2906.6	3390.0	4200.8	5392.1	6836.0	8301.8	9527.4	10023.3
2445.0	17.5°	2523.0	2838.0	3676.9	4949.3	6546.0	8186.4	9589.8	10120.0
2320.3	20°	2332.7	2420.1	2997.0	4381.7	6274.7	8077.3	9652.2	10210.4
2220.5	22.5°	2220.5	2242.3	2451.2	3648.8	5950.3	8042.9	9761.3	10335.1
2130.0	25°	2130.0	2136.3	2192.4	2891.0	5454.5	8021.1	9929.7	10506.7
2036.5	27.5°	2039.6	2039.6	2070.8	2329.6	4780.9	7927.6	10148.0	10712.5
1942.9	30°	1949.1	1949.1	1971.0	2061.4	3991.8	7743.6	10410.0	10980.7
1849.3	32.5°	1855.6	1855.6	1874.3	1939.8	3187.2	7512.8	10650.1	11252.0
1752.7	35°	1762.0	1755.8	1780.7	1849.3	2535.4	7219.6	10890.3	11545.2
1656.0	37.5°	1662.2	1659.1	1684.1	1762.0	2189.3	6879.7	11071.1	11944.4
1559.3	40°	1556.2	1556.2	1584.3	1668.5	2089.5	6452.4	11358.1	12518.2
1459.5	42.5°	1459.5	1453.3	1484.5	1587.4	2014.6	6043.9	11872.6	13354.0
1369.1	45°	1366.0	1353.5	1381.6	1509.4	1883.7	5900.4	12833.2	14589.0
1281.8	47.5°	1278.6	1247.5	1272.4	1415.9	1765.1	6436.9	14405.0	16301.1
1203.8	50°	1206.9	1147.7	1169.5	1322.3	1674.7	7600.1	16444.5	18574.6
1132.1	52.5°	1132.1	1054.1	1066.6	1206.9	1593.6	8707.2	18655.6	21574.7
1060.3	55°	1054.1	966.8	973.0	1091.5	1478.2	8872.5	20813.7	25666.3
979.2	57.5°	966.8	885.7	885.7	985.5	1394.0	7690.5	22472.8	30743.5
879.5	60°	870.1	817.1	801.5	901.3	1468.9	5426.4	22666.2	34018.0
751.6	62.5°	764.1	736.0	714.2	820.2	1525.0	3215.3	21110.0	33225.9
592.5	65°	642.4	636.2	620.6	901.3	1284.9	1899.2	18122.4	30796.5
505.2	67.5°	539.5	530.2	530.2	944.9	976.1	1194.4	14158.6	27453.3
430.4	70°	464.7	430.4	430.4	714.2	592.5	826.4	9886.1	23845.0
355.5	72.5°	389.8	352.4	327.5	570.7	442.8	605.0	6178.0	20420.8
271.3	75°	311.9	283.8	252.6	377.4	330.6	458.4	3589.5	16918.6
171.5	77.5°	224.5	212.1	177.8	277.6	240.1	330.6	2136.3	13054.6
106.0	80°	115.4	118.5	112.3	159.1	162.2	224.5	1216.3	8934.9
68.6	82.5°	68.6	53.0	59.3	78.0	93.6	127.9	458.4	5251.8
49.9	85°	43.7	28.1	28.1	37.4	46.8	49.9	140.3	2130.0
24.9	87.5°	21.8	9.4	12.5	18.7	15.6	12.5	6.2	536.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)