

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: P957502

Luminaire Tested: **GALN-SB9D-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957502
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-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3000K, 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: 63562 lumens
Efficiency: N/A
Efficacy: 96.6 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

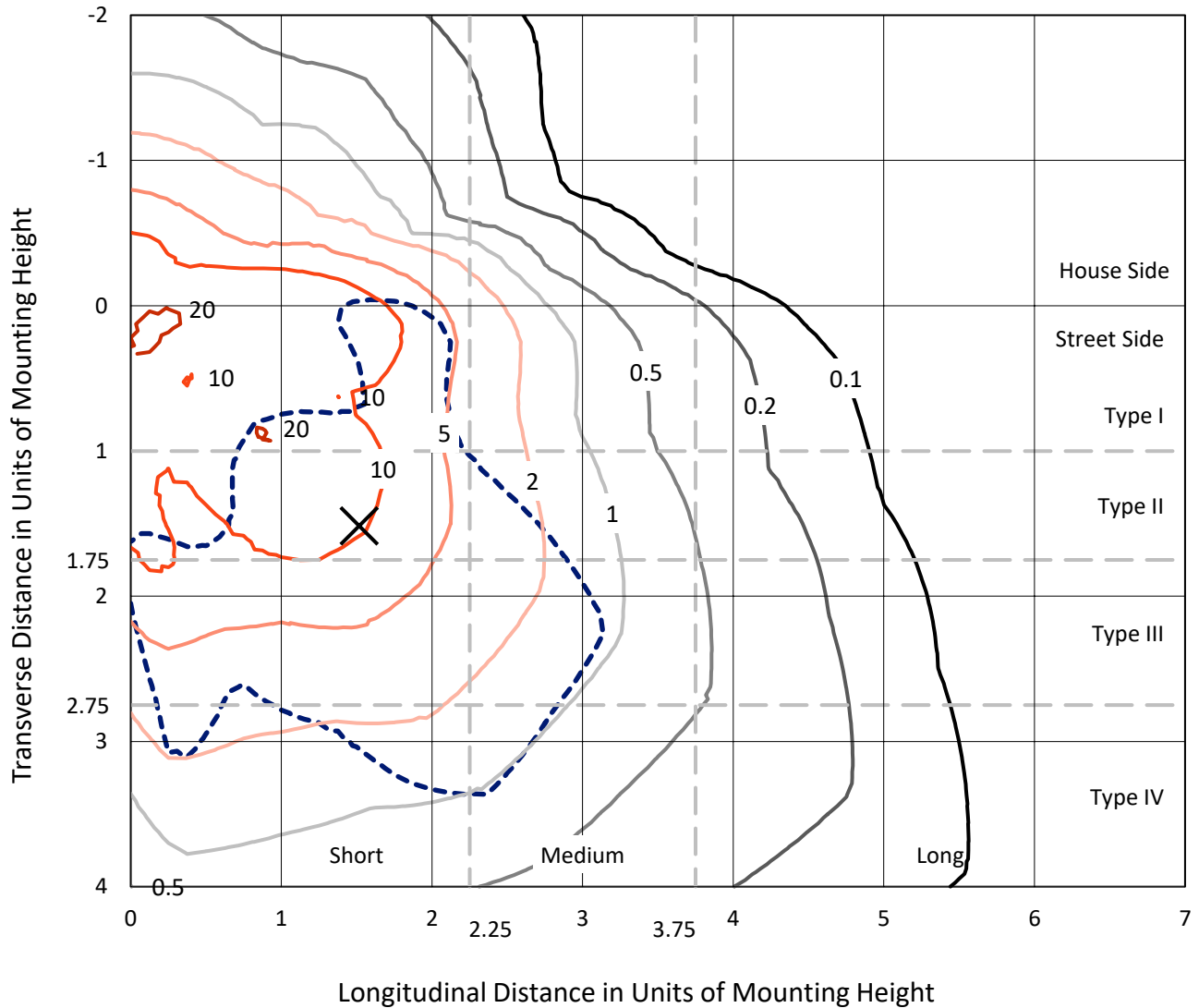
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

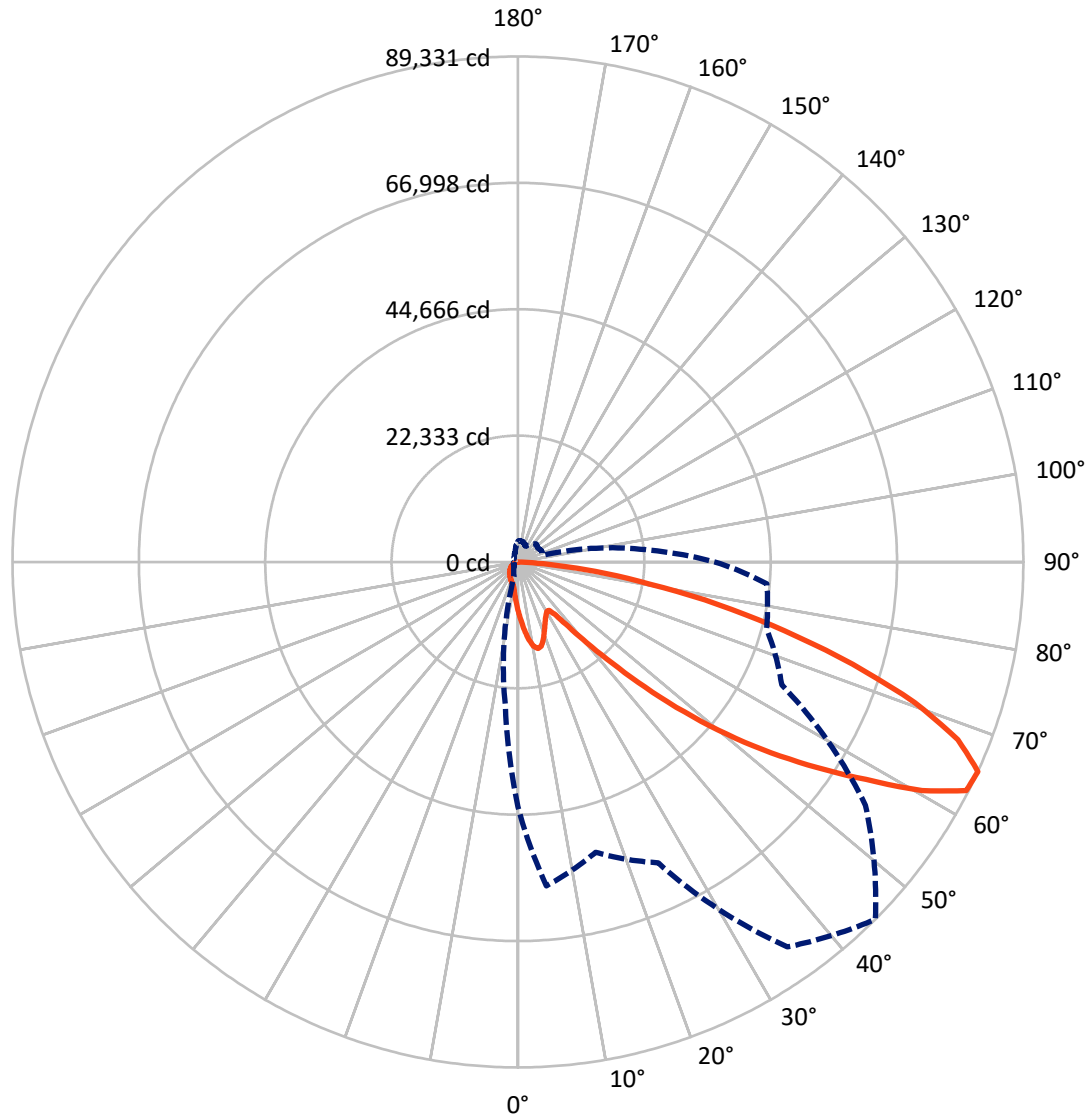
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 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	12634.2	0.0	12634.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	50927.8	0.0	50927.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	63562.0	0.0	63562.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	866.5	1.4
10°-20°	2597.6	4.1
20°-30°	3826.7	6.0
30°-40°	4916.3	7.7
40°-50°	7951.2	12.5
50°-60°	13943.1	21.9
60°-70°	17446.6	27.4
70°-80°	10195.0	16.0
80°-90°	1818.9	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°	63562.0	100.0
0°-180°	63562.0	100.0

Coefficient of Utilization



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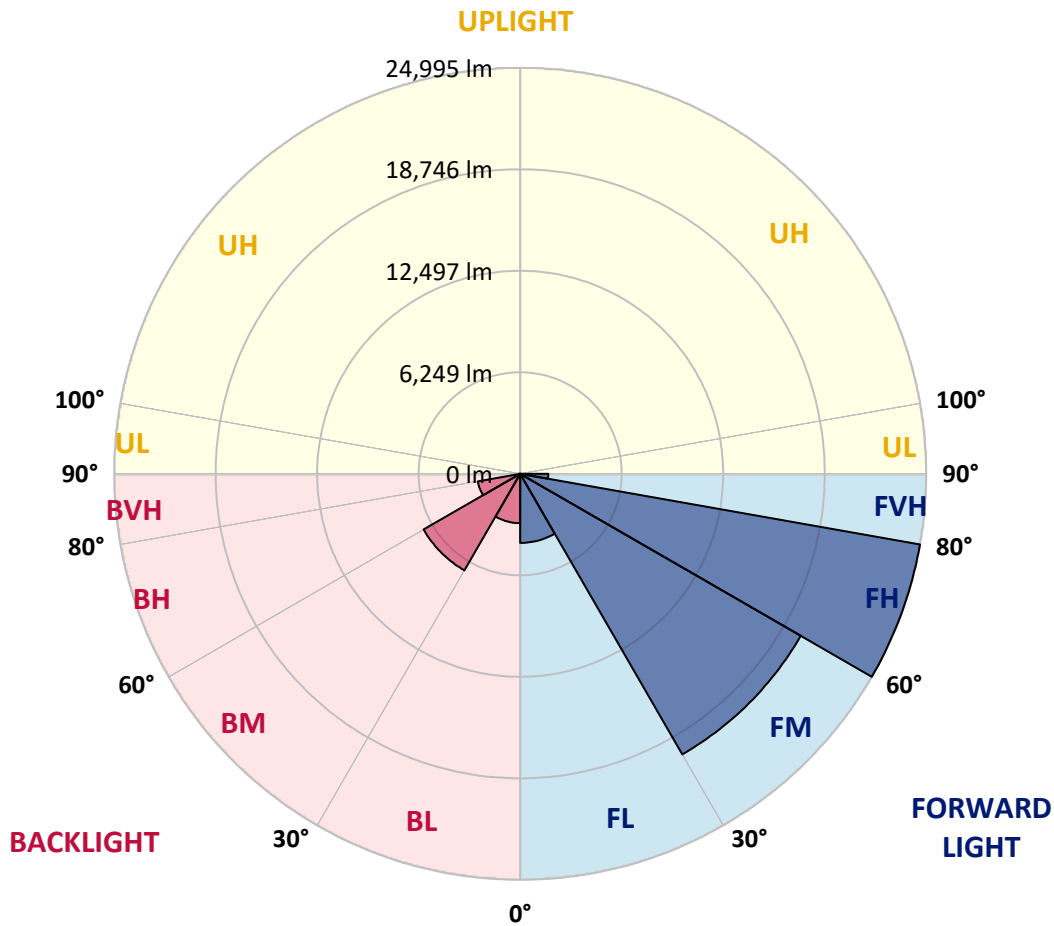
CATALOG NUMBER: GALN-SB9D-830-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4253.0	6.7			
FM (30°-60°)	19946.5	31.4			
FH (60°-80°)	24994.6	39.3			G5
FVH (80°-90°)	1733.7	2.7			G5
BL (0°-30°)	3037.8	4.8	B4/5000		
BM (30°-60°)	6864.1	10.8	B4/8500		
BH (60°-80°)	2647.1	4.2	B4/5000		G4/5000
BVH (80°-90°)	85.2	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°	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3
2.5°	9861.0	9935.4	10101.8	10189.4	10325.1	10333.9	10333.9	10215.6	10211.3	9970.4
5°	11021.3	11196.5	11590.6	11997.8	12085.4	12107.3	12063.5	11827.0	11651.9	11183.3
7.5°	12172.9	12510.1	13110.0	13653.0	13828.1	13828.1	13723.0	13337.7	12978.6	12299.9
10°	13127.5	13552.3	14366.7	14975.4	15176.8	15133.0	14918.4	14432.4	13937.6	13114.4
12.5°	13758.1	14235.3	15128.6	15619.0	15824.8	15711.0	15465.8	14992.9	14471.8	13604.8
15°	14073.3	14572.5	15347.5	15605.9	15549.0	15430.7	15400.1	15172.4	14778.3	13968.2
17.5°	14209.1	14673.2	15211.8	15049.8	14568.1	14476.2	14782.7	15071.7	14975.4	14283.5
20°	14336.1	14725.8	14887.8	14169.7	13328.9	13245.7	13832.5	14655.7	15076.1	14576.9
22.5°	14511.2	14752.0	14419.2	13241.4	12335.0	12142.3	12790.4	14029.5	15106.7	14949.1
25°	14752.0	14817.7	13902.6	12361.2	11450.5	11257.8	11862.1	13333.3	15054.2	15351.9
27.5°	15041.0	14905.3	13407.8	11625.6	10745.5	10565.9	11170.2	12663.4	14905.3	15754.8
30°	15417.6	15019.1	12917.3	11056.4	10241.9	10110.6	10692.9	12085.4	14721.4	16267.1
32.5°	15798.6	15067.3	12461.9	10723.6	10128.1	10176.2	10653.5	11774.5	14520.0	16757.5
35°	16210.2	15220.6	12238.6	11052.0	11078.3	11498.6	11695.7	12063.5	14489.3	17423.1
37.5°	16770.6	15562.1	12505.7	12685.3	13596.0	14467.4	14305.4	13477.8	14844.0	18417.1
40°	17576.3	16162.0	13670.5	15465.8	17335.5	18749.8	18132.4	16048.1	15929.9	19848.9
42.5°	18749.8	17116.6	15737.3	18863.7	22033.9	24363.4	22708.2	19362.9	17830.3	21893.8
45°	20483.8	18662.3	18237.5	22449.9	27827.0	31496.4	28054.7	22896.5	20492.6	24989.6
47.5°	22887.8	20934.8	20580.2	26228.8	34868.0	39614.6	33983.5	26171.8	23522.7	29210.7
50°	26079.9	23995.6	22800.2	30362.3	42587.8	47890.5	39908.0	29333.3	26995.0	34368.9
52.5°	30292.2	28264.9	25388.0	34298.8	50526.5	55991.2	45858.7	32109.4	31303.7	40354.6
55°	36037.2	34688.5	28926.1	38055.8	58460.8	64140.0	51577.4	34727.9	36996.1	47465.7
57.5°	43165.8	44129.1	34027.3	42412.6	65593.8	72538.5	57322.3	38388.6	44387.5	55417.6
60°	47763.5	56683.0	43796.3	48853.8	73698.9	82036.0	65195.3	45350.8	52155.4	58268.1
62.5°	46651.3	60676.4	55496.4	57077.1	81151.5	88941.3	72910.7	52343.7	53617.9	54068.9
65°	43240.2	57453.7	53110.0	58675.4	83038.8	89331.0	74973.1	51441.6	45482.2	44142.3
67.5°	38546.2	53631.0	47439.5	54436.7	79627.7	83883.9	71132.9	45504.1	35148.3	33125.3
70°	33480.0	49401.1	43717.5	49681.4	73125.3	74390.7	64604.2	40021.8	25852.2	22371.1
72.5°	28672.1	44996.1	41169.1	44807.8	64450.9	61832.4	56105.0	35174.6	18824.3	16135.7
75°	23754.8	38498.0	37539.1	39019.1	53044.3	48704.9	46616.3	29123.1	14773.9	11673.8
77.5°	18329.5	30082.1	32289.0	31246.8	37337.7	36177.3	36133.5	21885.0	10793.6	7789.8
80°	12545.1	20965.5	25226.0	22042.7	24232.0	23640.9	27214.0	14682.0	7829.2	4689.6
82.5°	7373.8	12764.1	17558.8	10671.0	13399.0	13753.7	16205.8	7141.8	4606.5	1081.6
85°	2990.7	5040.0	6865.9	4177.3	6463.0	5451.6	6152.2	2005.5	1283.0	26.3
87.5°	753.1	1611.4	1129.7	468.5	748.8	687.5	543.0	245.2	52.5	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
8801.3	0°	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3
9944.2	2.5°	9773.4	9672.7	9423.1	9173.5	8972.1	8700.6	8521.1	8306.5	8100.7	7916.8
11082.6	5°	10806.8	10474.0	10018.6	9602.6	9177.9	8766.3	8359.0	7929.9	7535.8	7295.0
12046.0	7.5°	11647.5	11060.7	10456.5	9926.6	9414.3	8932.7	8394.1	7873.0	7255.6	6927.2
12781.6	10°	12273.7	11503.0	10710.4	10101.8	9585.1	9116.6	8661.2	8135.7	7391.3	6979.7
13228.2	12.5°	12685.3	11770.1	10841.8	10145.6	9567.6	9204.1	9002.7	8796.9	8056.9	7575.3
13556.6	15°	12969.9	11958.4	10933.8	10044.9	9335.5	9068.4	9269.8	9506.3	9033.4	8477.3
13898.2	17.5°	13280.8	12203.6	10973.2	9773.4	8884.5	8770.7	9291.7	9839.1	9817.2	9265.5
14222.2	20°	13609.2	12418.2	10946.9	9335.5	8337.2	8437.9	9103.4	9738.4	10005.5	9707.7
14594.4	22.5°	13946.3	12624.0	10846.2	8766.3	7824.8	8140.1	8805.7	9361.8	9677.1	9585.1
15049.8	25°	14371.1	12913.0	10697.3	8153.2	7400.1	7838.0	8459.8	8910.8	9129.7	9125.3
15540.2	27.5°	14879.0	13298.3	10618.5	7658.4	7098.0	7496.4	8048.2	8451.0	8604.3	8604.3
16148.9	30°	15470.2	13753.7	10530.9	7334.4	6922.8	7141.8	7570.9	7965.0	8118.2	8118.2
16814.4	32.5°	16127.0	14191.6	10320.7	7137.4	6791.5	6795.8	7067.3	7426.4	7610.3	7636.6
17646.4	35°	16915.1	14660.1	9861.0	6979.7	6638.2	6458.7	6590.0	6887.8	7106.7	7163.6
18833.0	37.5°	17948.5	15233.7	9204.1	6747.7	6401.7	6104.0	6134.6	6362.3	6603.2	6690.7
20470.7	40°	19336.6	15908.0	8521.1	6414.9	6069.0	5714.3	5701.1	5867.5	6104.0	6200.3
22686.3	42.5°	21171.3	16718.1	7868.6	6095.2	5666.1	5302.7	5280.8	5412.1	5617.9	5718.7
25611.4	45°	23518.3	17712.1	7308.1	5845.6	5272.0	4913.0	4904.2	5013.7	5193.2	5298.3
29355.2	47.5°	26780.5	18706.1	6927.2	5714.3	4961.1	4593.3	4610.8	4707.2	4869.2	4943.6
34202.5	50°	31032.3	19008.2	6734.5	5714.3	4794.7	4308.7	4396.3	4475.1	4597.7	4641.5
40013.1	52.5°	35113.3	18009.8	6559.4	5749.3	4816.6	4067.9	4256.2	4313.1	4418.2	4435.7
45399.0	55°	37114.4	15483.3	6318.5	5758.1	4952.4	3862.1	4142.3	4247.4	4286.8	4282.4
48525.4	57.5°	36426.9	12518.9	5911.3	5723.0	5044.3	3730.7	4002.2	4203.6	4229.9	4190.5
47929.9	60°	34014.2	9217.3	5600.4	5464.7	5009.3	3691.3	3787.6	4107.3	4146.7	4094.1
43340.9	62.5°	29968.2	6397.4	5359.6	4895.5	4856.0	3678.2	3450.5	3897.1	3993.4	3919.0
34837.4	65°	23592.7	4518.9	4615.2	4291.2	4523.3	3608.1	3100.2	3643.1	3774.5	3660.6
25274.2	67.5°	15965.0	3262.2	3739.5	3888.3	3984.7	3450.5	2846.2	3354.1	3529.3	3380.4
16218.9	70°	8621.8	2290.1	2469.6	3275.3	3384.8	3179.0	2618.5	3060.8	3262.2	3100.2
11529.3	72.5°	5092.5	1646.4	1729.6	2631.6	2819.9	2798.0	2364.5	2719.2	2964.4	2771.8
7956.2	75°	2806.8	1112.2	1234.8	1909.1	2290.1	2158.7	2031.7	2303.2	2552.8	2364.5
4987.4	77.5°	1256.7	665.6	858.2	1252.3	1799.7	1480.0	1572.0	1795.3	2027.4	1830.3
2776.1	80°	486.0	372.2	569.2	683.1	1309.2	818.8	1011.5	1322.4	1488.8	1331.1
604.3	82.5°	61.3	166.4	245.2	267.1	761.9	433.5	586.8	832.0	818.8	709.4
0.0	85°	0.0	30.7	35.0	17.5	328.4	157.6	192.7	271.5	254.0	192.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	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°
8801.3	0°	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3
7881.8	2.5°	7667.2	7509.6	7430.8	7365.1	7426.4	7461.4	7461.4	7610.3	7697.9	7732.9
7141.8	5°	6756.4	6463.0	6266.0	6147.8	6187.2	6231.0	6279.1	6467.4	6594.4	6677.6
6629.4	7.5°	6038.3	5591.7	5315.8	5171.3	5193.2	5223.9	5263.3	5447.2	5574.2	5683.6
6533.1	10°	5683.6	5053.1	4689.6	4514.5	4483.8	4466.3	4453.2	4562.7	4659.0	4746.6
6927.2	12.5°	5701.1	4821.0	4378.8	4164.2	4072.2	3967.2	3884.0	3901.5	3962.8	4072.2
7632.2	15°	5924.5	4746.6	4216.7	3949.6	3796.4	3673.8	3573.1	3551.2	3573.1	3590.6
8437.9	17.5°	6226.6	4737.8	4076.6	3743.8	3586.2	3485.5	3393.5	3362.9	3367.3	3389.2
8972.1	20°	6467.4	4711.5	3919.0	3546.8	3406.7	3319.1	3227.1	3196.5	3205.3	3209.6
9024.6	22.5°	6594.4	4672.1	3743.8	3349.7	3231.5	3143.9	3060.8	3056.4	3056.4	3082.6
8740.0	25°	6594.4	4588.9	3586.2	3161.5	3056.4	2977.6	2876.8	2894.4	2903.1	2938.1
8297.7	27.5°	6436.8	4431.3	3459.2	2999.4	2890.0	2811.2	2719.2	2741.1	2754.2	2793.6
7859.9	30°	6235.4	4243.0	3314.7	2846.2	2719.2	2662.3	2583.5	2592.2	2609.7	2653.5
7452.6	32.5°	6020.8	4019.7	3196.5	2692.9	2566.0	2522.2	2434.6	2447.7	2465.2	2513.4
7049.8	35°	5784.3	3757.0	3056.4	2552.8	2425.8	2390.8	2290.1	2298.8	2325.1	2377.7
6616.3	37.5°	5534.7	3542.4	2916.3	2417.1	2285.7	2250.7	2145.6	2154.3	2185.0	2246.3
6160.9	40°	5289.5	3332.2	2767.4	2272.6	2141.2	2110.6	1996.7	2005.5	2040.5	2106.2
5701.1	42.5°	5022.4	3170.2	2574.7	2123.7	1983.6	1952.9	1847.8	1861.0	1900.4	1966.1
5276.4	45°	4702.8	3065.1	2360.2	1983.6	1825.9	1795.3	1699.0	1725.2	1769.0	1834.7
4913.0	47.5°	4374.4	3021.3	2180.6	1834.7	1663.9	1637.7	1558.8	1602.6	1650.8	1703.3
4602.1	50°	4059.1	2964.4	1996.7	1694.6	1523.8	1497.5	1445.0	1501.9	1550.1	1598.2
4378.8	52.5°	3700.1	2841.8	1830.3	1572.0	1405.6	1396.8	1370.6	1423.1	1466.9	1510.7
4186.1	55°	3327.9	2644.8	1685.8	1462.5	1304.9	1313.6	1300.5	1344.3	1379.3	1418.7
4010.9	57.5°	3003.8	2395.2	1572.0	1344.3	1217.3	1243.6	1226.1	1247.9	1269.8	1318.0
3800.8	60°	2675.4	2097.4	1445.0	1204.2	1129.7	1160.4	1112.2	1107.8	1116.6	1129.7
3489.9	62.5°	2233.2	1786.5	1287.4	1081.6	1033.4	1046.5	954.6	884.5	884.5	897.6
3056.4	65°	1795.3	1497.5	1112.2	941.4	902.0	893.3	761.9	665.6	656.8	696.2
2552.8	67.5°	1475.6	1243.6	937.1	783.8	757.5	766.3	669.9	573.6	564.9	608.6
2079.9	70°	1221.7	1002.7	748.8	604.3	630.5	669.9	573.6	481.7	468.5	507.9
1690.2	72.5°	972.1	783.8	573.6	446.6	521.1	569.2	468.5	381.0	372.2	407.2
1304.9	75°	713.7	560.5	389.7	324.0	402.8	446.6	341.5	271.5	258.3	289.0
871.4	77.5°	442.3	315.3	245.2	192.7	275.9	297.8	179.5	157.6	153.3	175.2
529.8	80°	205.8	135.7	118.2	65.7	100.7	118.2	74.4	83.2	87.6	105.1
267.1	82.5°	56.9	21.9	4.4	0.0	0.0	35.0	17.5	35.0	43.8	65.7
21.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.8	21.9	39.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5
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°
8801.3	0°	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3	8801.3
7978.1	2.5°	8162.0	8337.2	8617.4	8906.4	9191.0	9480.0	9760.3	9861.0
7058.6	5°	7404.5	7807.3	8363.4	8958.9	9572.0	10193.7	10763.0	11021.3
6108.4	7.5°	6559.4	7137.4	7973.7	8906.4	9882.9	10859.3	11757.0	12172.9
5166.9	10°	5657.4	6388.6	7343.2	8604.3	10005.5	11354.1	12588.9	13127.5
4339.3	12.5°	4799.1	5565.4	6620.7	8131.4	9909.1	11638.7	13123.1	13758.1
3757.0	15°	4081.0	4759.7	5898.2	7570.9	9598.2	11656.3	13377.1	14073.3
3432.9	17.5°	3542.4	3984.7	5162.6	6949.1	9191.0	11494.2	13464.7	14209.1
3257.8	20°	3275.3	3397.9	4208.0	6152.2	8810.1	11341.0	13552.3	14336.1
3117.7	22.5°	3117.7	3148.3	3441.7	5123.1	8354.7	11292.8	13705.5	14511.2
2990.7	25°	2990.7	2999.4	3078.3	4059.1	7658.4	11262.2	13942.0	14752.0
2859.3	27.5°	2863.7	2863.7	2907.5	3270.9	6712.6	11130.8	14248.5	15041.0
2728.0	30°	2736.7	2736.7	2767.4	2894.4	5604.8	10872.5	14616.3	15417.6
2596.6	32.5°	2605.4	2605.4	2631.6	2723.6	4475.1	10548.4	14953.5	15798.6
2460.9	35°	2474.0	2465.2	2500.3	2596.6	3559.9	10136.8	15290.6	16210.2
2325.1	37.5°	2333.9	2329.5	2364.5	2474.0	3073.9	9659.5	15544.6	16770.6
2189.4	40°	2185.0	2185.0	2224.4	2342.6	2933.8	9059.6	15947.4	17576.3
2049.3	42.5°	2049.3	2040.5	2084.3	2228.8	2828.7	8486.0	16669.9	18749.8
1922.3	45°	1917.9	1900.4	1939.8	2119.3	2644.8	8284.6	18018.6	20483.8
1799.7	47.5°	1795.3	1751.5	1786.5	1988.0	2478.4	9037.8	20225.5	22887.8
1690.2	50°	1694.6	1611.4	1642.0	1856.6	2351.4	10671.0	23089.2	26079.9
1589.5	52.5°	1589.5	1480.0	1497.5	1694.6	2237.5	12225.5	26193.7	30292.2
1488.8	55°	1480.0	1357.4	1366.2	1532.6	2075.5	12457.6	29223.8	36037.2
1374.9	57.5°	1357.4	1243.6	1243.6	1383.7	1957.3	10798.0	31553.3	43165.8
1234.8	60°	1221.7	1147.2	1125.3	1265.5	2062.4	7619.0	31824.8	47763.5
1055.3	62.5°	1072.8	1033.4	1002.7	1151.6	2141.2	4514.5	29639.8	46651.3
832.0	65°	902.0	893.3	871.4	1265.5	1804.0	2666.7	25445.0	43240.2
709.4	67.5°	757.5	744.4	744.4	1326.8	1370.6	1677.1	19879.6	38546.2
604.3	70°	652.4	604.3	604.3	1002.7	832.0	1160.4	13880.7	33480.0
499.2	72.5°	547.3	494.8	459.8	801.3	621.8	849.5	8674.3	28672.1
381.0	75°	437.9	398.5	354.7	529.8	464.1	643.7	5040.0	23754.8
240.8	77.5°	315.3	297.8	249.6	389.7	337.2	464.1	2999.4	18329.5
148.9	80°	162.0	166.4	157.6	223.3	227.7	315.3	1707.7	12545.1
96.3	82.5°	96.3	74.4	83.2	109.5	131.4	179.5	643.7	7373.8
70.1	85°	61.3	39.4	39.4	52.5	65.7	70.1	197.0	2990.7
35.0	87.5°	30.7	13.1	17.5	26.3	21.9	17.5	8.8	753.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)