

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: P956011

Luminaire Tested: **GALN-SB8D-750-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956011
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-SB8D-750-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 5000K, 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: 66440 lumens
Efficiency: N/A
Efficacy: 113.6 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

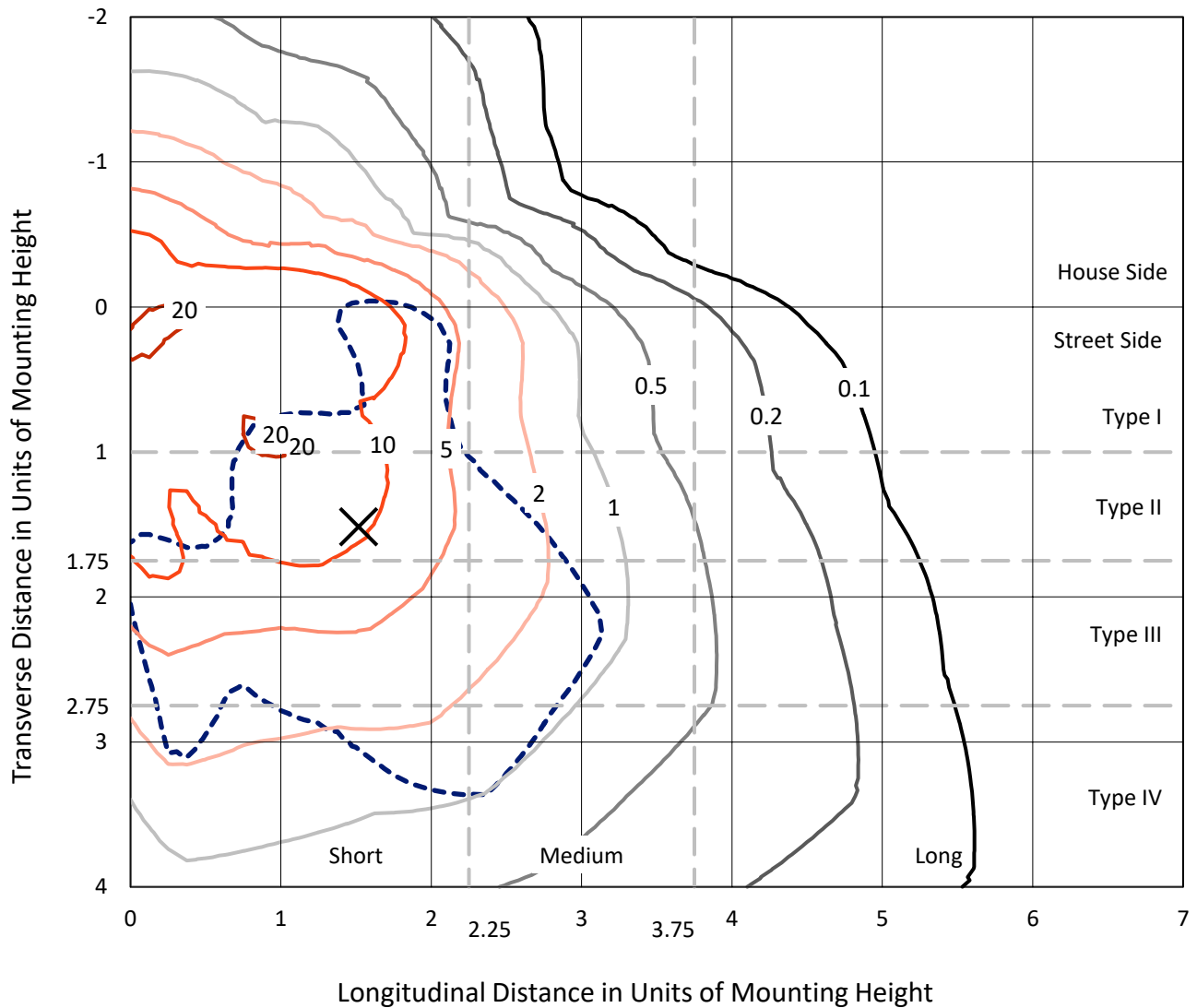
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

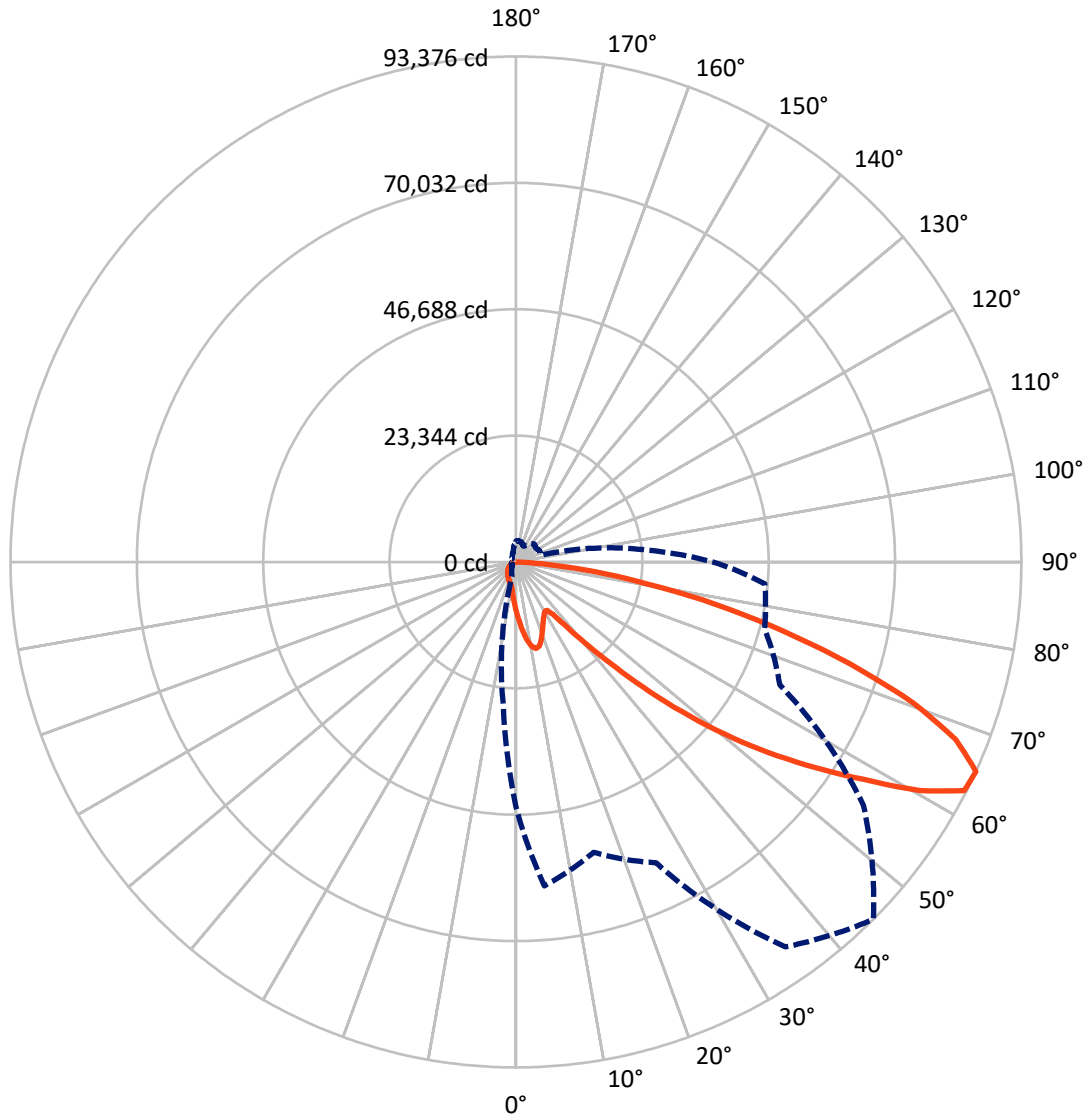
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 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	13206.2	0.0	13206.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	53233.8	0.0	53233.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	66440.0	0.0	66440.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	905.8	1.4
10°-20°	2715.2	4.1
20°-30°	4000.0	6.0
30°-40°	5138.9	7.7
40°-50°	8311.2	12.5
50°-60°	14574.4	21.9
60°-70°	18236.6	27.4
70°-80°	10656.6	16.0
80°-90°	1901.3	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°	66440.0	100.0
0°-180°	66440.0	100.0



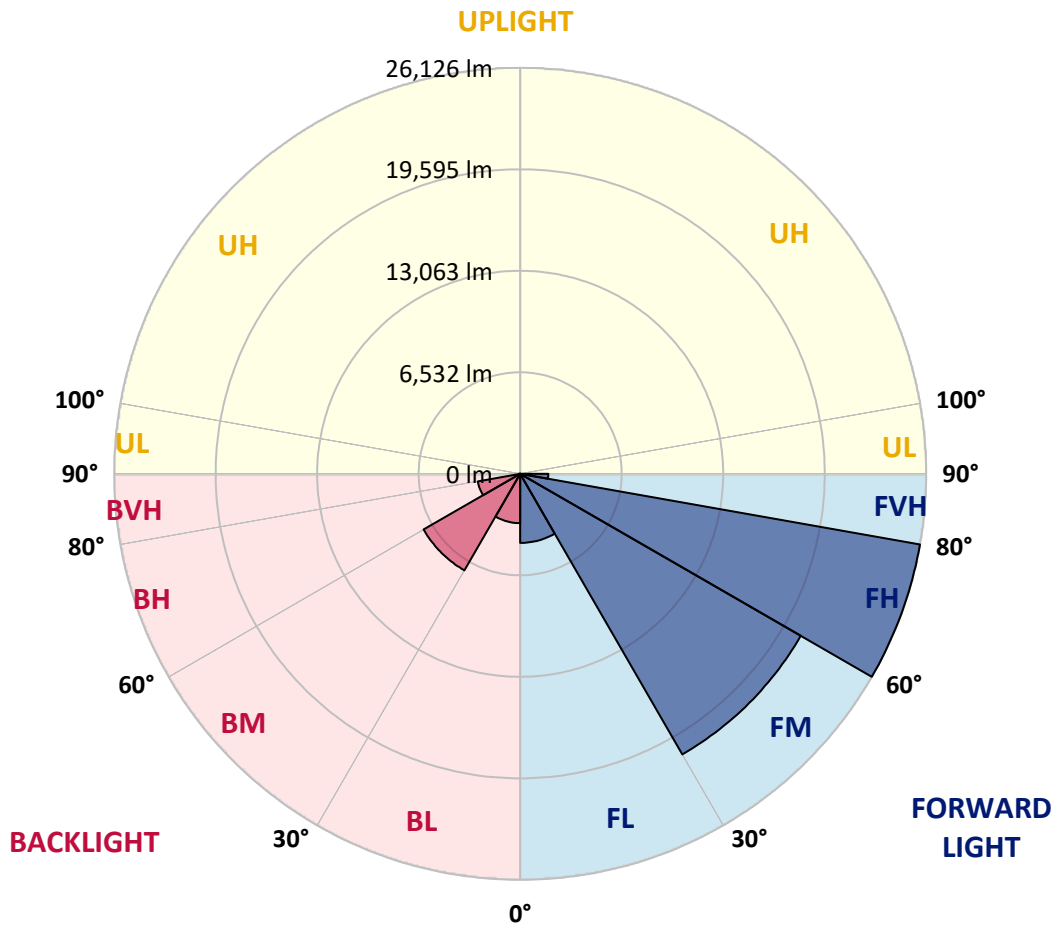
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4445.6	6.7			
FM (30°-60°)	20849.7	31.4			
FH (60°-80°)	26126.3	39.3			G5
FVH (80°-90°)	1812.2	2.7			G5
BL (0°-30°)	3175.3	4.8	B4/5000		
BM (30°-60°)	7174.9	10.8	B4/8500		
BH (60°-80°)	2767.0	4.2	B4/5000		G4/5000
BVH (80°-90°)	89.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8
2.5°	10307.5	10385.3	10559.2	10650.7	10792.6	10801.8	10801.8	10678.2	10673.6	10421.9
5°	11520.4	11703.4	12115.4	12541.0	12632.6	12655.5	12609.7	12362.5	12179.5	11689.7
7.5°	12724.1	13076.6	13703.6	14271.2	14454.2	14454.2	14344.4	13941.6	13566.3	12856.9
10°	13721.9	14165.9	15017.2	15653.4	15864.0	15818.2	15593.9	15085.9	14568.7	13708.2
12.5°	14381.0	14879.9	15813.6	16326.2	16541.4	16422.4	16166.0	15671.7	15127.1	14220.8
15°	14710.5	15232.3	16042.5	16312.5	16253.0	16129.4	16097.4	15859.4	15447.4	14600.7
17.5°	14852.4	15337.6	15900.6	15731.2	15227.8	15131.6	15452.0	15754.1	15653.4	14930.2
20°	14985.2	15392.5	15561.9	14811.2	13932.5	13845.5	14458.8	15319.3	15758.7	15236.9
22.5°	15168.3	15420.0	15072.1	13840.9	12893.5	12692.1	13369.5	14664.8	15790.7	15626.0
25°	15420.0	15488.6	14532.0	12920.9	11968.9	11767.5	12399.2	13937.0	15735.8	16047.0
27.5°	15722.1	15580.2	14014.8	12152.0	11232.0	11044.4	11676.0	13236.7	15580.2	16468.1
30°	16115.7	15699.2	13502.2	11557.0	10705.7	10568.3	11177.1	12632.6	15387.9	17003.6
32.5°	16513.9	15749.5	13026.2	11209.1	10586.7	10637.0	11135.9	12307.6	15177.4	17516.3
35°	16944.1	15909.7	12792.8	11552.4	11579.9	12019.3	12225.2	12609.7	15145.4	18212.0
37.5°	17530.0	16266.7	13072.0	13259.6	14211.7	15122.5	14953.1	14088.1	15516.1	19251.0
40°	18372.2	16893.8	14289.5	16166.0	18120.4	19598.8	18953.4	16774.8	16651.2	20747.6
42.5°	19598.8	17891.6	16449.8	19717.8	23031.6	25466.6	23736.4	20239.6	18637.6	22885.1
45°	21411.3	19507.3	19063.3	23466.4	29087.0	32922.5	29325.0	23933.2	21420.5	26121.1
47.5°	23924.1	21882.7	21512.0	27416.4	36446.8	41408.3	35522.3	27356.9	24587.8	30533.3
50°	27260.7	25082.1	23832.6	31737.1	44516.1	50058.9	41715.0	30661.5	28217.3	35925.0
52.5°	31663.8	29544.7	26537.6	35851.8	52814.3	58526.4	47935.2	33563.3	32721.1	42181.8
55°	37668.9	36259.2	30235.8	39778.9	61107.8	67044.2	53912.7	36300.4	38671.3	49614.9
57.5°	45120.3	46127.2	35568.0	44333.0	68563.8	75822.9	59917.8	40126.8	46397.3	57926.8
60°	49926.2	59249.5	45779.4	51065.8	77035.9	85750.5	68147.3	47404.2	54516.9	60906.4
62.5°	48763.6	63423.8	58009.2	59661.5	84825.9	92968.5	76212.0	54713.7	56045.6	56517.1
65°	45198.1	60055.1	55514.7	61332.1	86798.6	93375.8	78367.8	53770.9	47541.5	46141.0
67.5°	40291.5	56059.4	49587.5	56901.5	83233.1	87682.0	74353.7	47564.4	36739.8	34625.2
70°	34995.9	51638.0	45697.0	51930.9	76436.3	77759.0	67529.4	41834.0	27022.7	23384.0
72.5°	29970.3	47033.5	43033.2	46836.7	67369.2	64632.1	58645.4	36767.2	19676.6	16866.3
75°	24830.3	40241.2	39238.8	40785.8	55446.0	50910.2	48727.0	30441.8	15442.9	12202.3
77.5°	19159.4	31444.1	33751.0	32661.6	39028.3	37815.4	37769.6	22876.0	11282.4	8142.5
80°	13113.2	21914.8	26368.2	23040.7	25329.2	24711.3	28446.2	15346.8	8183.7	4902.0
82.5°	7707.7	13342.0	18353.9	11154.2	14005.7	14376.4	16939.6	7465.1	4815.0	1130.5
85°	3126.1	5268.2	7176.8	4366.5	6755.7	5698.4	6430.7	2096.3	1341.1	27.5
87.5°	787.2	1684.3	1180.9	489.7	782.7	718.6	567.6	256.3	54.9	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
9199.8	0°	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8
10394.4	2.5°	10215.9	10110.6	9849.8	9588.9	9378.3	9094.5	8906.9	8682.6	8467.5	8275.3
11584.4	5°	11296.1	10948.2	10472.2	10037.4	9593.4	9163.2	8737.5	8289.0	7877.1	7625.3
12591.4	7.5°	12174.9	11561.6	10929.9	10376.1	9840.6	9337.1	8774.2	8229.5	7584.1	7240.8
13360.3	10°	12829.4	12023.8	11195.4	10559.2	10019.1	9529.4	9053.3	8504.1	7726.0	7295.8
13827.2	12.5°	13259.6	12303.0	11332.7	10605.0	10000.8	9620.9	9410.4	9195.2	8421.7	7918.2
14170.5	15°	13557.1	12499.8	11428.8	10499.7	9758.2	9479.0	9689.6	9936.7	9442.4	8861.1
14527.5	17.5°	13882.1	12756.2	11470.0	10215.9	9286.8	9167.8	9712.4	10284.6	10261.7	9685.0
14866.2	20°	14225.4	12980.4	11442.6	9758.2	8714.6	8819.9	9515.6	10179.3	10458.5	10147.3
15255.2	22.5°	14577.8	13195.6	11337.3	9163.2	8179.1	8508.7	9204.4	9785.7	10115.2	10019.1
15731.2	25°	15021.8	13497.6	11181.7	8522.4	7735.2	8192.9	8842.8	9314.2	9543.1	9538.5
16243.9	27.5°	15552.7	13900.4	11099.3	8005.2	7419.4	7835.9	8412.6	8833.7	8993.8	8993.8
16880.1	30°	16170.6	14376.4	11007.7	7666.5	7236.3	7465.1	7913.7	8325.6	8485.8	8485.8
17575.8	32.5°	16857.2	14834.1	10788.0	7460.5	7099.0	7103.5	7387.3	7762.6	7954.9	7982.3
18445.4	35°	17681.0	15323.9	10307.5	7295.8	6938.8	6751.1	6888.4	7199.7	7428.5	7488.0
19685.8	37.5°	18761.2	15923.5	9620.9	7053.2	6691.6	6380.4	6412.4	6650.4	6902.1	6993.7
21397.6	40°	20212.1	16628.3	8906.9	6705.3	6343.8	5973.0	5959.3	6133.2	6380.4	6481.1
23713.6	42.5°	22129.9	17475.1	8224.9	6371.2	5922.7	5542.8	5519.9	5657.2	5872.3	5977.6
26771.0	45°	24583.2	18514.1	7639.0	6110.3	5510.7	5135.4	5126.3	5240.7	5428.3	5538.2
30684.4	47.5°	27993.1	19553.0	7240.8	5973.0	5185.8	4801.3	4819.6	4920.3	5089.6	5167.5
35751.1	50°	32437.4	19868.9	7039.5	5973.0	5011.8	4503.8	4595.3	4677.7	4805.9	4851.6
41824.8	52.5°	36703.1	18825.3	6856.4	6009.6	5034.7	4252.1	4448.9	4508.4	4618.2	4636.5
47454.6	55°	38794.8	16184.3	6604.6	6018.8	5176.6	4036.9	4329.9	4439.7	4480.9	4476.3
50722.6	57.5°	38076.2	13085.7	6179.0	5982.2	5272.7	3899.6	4183.4	4393.9	4421.4	4380.2
50100.1	60°	35554.3	9634.6	5854.0	5712.1	5236.1	3858.4	3959.1	4293.2	4334.4	4279.5
45303.4	62.5°	31325.1	6687.0	5602.3	5117.1	5075.9	3844.7	3606.7	4073.5	4174.2	4096.4
36414.8	65°	24661.0	4723.5	4824.2	4485.5	4728.1	3771.5	3240.5	3808.1	3945.4	3826.4
26418.6	67.5°	16687.8	3409.9	3908.8	4064.4	4165.1	3606.7	2975.1	3506.0	3689.1	3533.5
16953.3	70°	9012.2	2393.8	2581.4	3423.6	3538.0	3322.9	2737.1	3199.3	3409.9	3240.5
12051.3	72.5°	5323.1	1721.0	1807.9	2750.8	2947.6	2924.7	2471.6	2842.3	3098.6	2897.3
8316.4	75°	2933.9	1162.6	1290.7	1995.6	2393.8	2256.5	2123.7	2407.5	2668.4	2471.6
5213.2	77.5°	1313.6	695.7	897.1	1309.0	1881.2	1547.0	1643.2	1876.6	2119.2	1913.2
2901.8	80°	508.0	389.0	595.0	714.0	1368.5	855.9	1057.3	1382.3	1556.2	1391.4
631.6	82.5°	64.1	173.9	256.3	279.2	796.4	453.1	613.3	869.6	855.9	741.5
0.0	85°	0.0	32.0	36.6	18.3	343.3	164.8	201.4	283.8	265.5	201.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	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°
9199.8	0°	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8
8238.6	2.5°	8014.4	7849.6	7767.2	7698.6	7762.6	7799.2	7799.2	7954.9	8046.4	8083.0
7465.1	5°	7062.3	6755.7	6549.7	6426.1	6467.3	6513.1	6563.4	6760.3	6893.0	6980.0
6929.6	7.5°	6311.7	5844.9	5556.5	5405.5	5428.3	5460.4	5501.6	5693.8	5826.5	5941.0
6828.9	10°	5941.0	5281.9	4902.0	4718.9	4686.9	4668.6	4654.8	4769.3	4870.0	4961.5
7240.8	12.5°	5959.3	5039.3	4577.0	4352.7	4256.6	4146.8	4059.8	4078.1	4142.2	4256.6
7977.7	15°	6192.7	4961.5	4407.7	4128.5	3968.3	3840.1	3734.8	3712.0	3734.8	3753.2
8819.9	17.5°	6508.5	4952.3	4261.2	3913.4	3748.6	3643.3	3547.2	3515.2	3519.7	3542.6
9378.3	20°	6760.3	4924.9	4096.4	3707.4	3560.9	3469.4	3373.3	3341.2	3350.4	3355.0
9433.2	22.5°	6893.0	4883.7	3913.4	3501.4	3377.8	3286.3	3199.3	3194.8	3194.8	3222.2
9135.7	25°	6893.0	4796.7	3748.6	3304.6	3194.8	3112.4	3007.1	3025.4	3034.6	3071.2
8673.5	27.5°	6728.2	4631.9	3615.8	3135.3	3020.8	2938.4	2842.3	2865.2	2878.9	2920.1
8215.8	30°	6517.7	4435.1	3464.8	2975.1	2842.3	2782.8	2700.4	2709.6	2727.9	2773.7
7790.1	32.5°	6293.4	4201.7	3341.2	2814.9	2682.1	2636.4	2544.8	2558.6	2576.9	2627.2
7369.0	35°	6046.2	3927.1	3194.8	2668.4	2535.7	2499.1	2393.8	2402.9	2430.4	2485.3
6915.9	37.5°	5785.4	3702.8	3048.3	2526.5	2389.2	2352.6	2242.7	2251.9	2283.9	2348.0
6439.9	40°	5529.0	3483.1	2892.7	2375.5	2238.2	2206.1	2087.1	2096.3	2132.9	2201.5
5959.3	42.5°	5249.8	3313.8	2691.3	2219.9	2073.4	2041.4	1931.5	1945.2	1986.4	2055.1
5515.3	45°	4915.7	3203.9	2467.0	2073.4	1908.6	1876.6	1775.9	1803.3	1849.1	1917.8
5135.4	47.5°	4572.4	3158.1	2279.4	1917.8	1739.3	1711.8	1629.4	1675.2	1725.5	1780.5
4810.5	50°	4242.9	3098.6	2087.1	1771.3	1592.8	1565.3	1510.4	1569.9	1620.3	1670.6
4577.0	52.5°	3867.6	2970.5	1913.2	1643.2	1469.2	1460.1	1432.6	1487.5	1533.3	1579.1
4375.6	55°	3478.5	2764.5	1762.2	1528.7	1364.0	1373.1	1359.4	1405.1	1441.8	1483.0
4192.6	57.5°	3139.8	2503.6	1643.2	1405.1	1272.4	1299.9	1281.6	1304.5	1327.3	1377.7
3972.9	60°	2796.6	2192.4	1510.4	1258.7	1180.9	1212.9	1162.6	1158.0	1167.1	1180.9
3647.9	62.5°	2334.3	1867.4	1345.6	1130.5	1080.2	1093.9	997.8	924.6	924.6	938.3
3194.8	65°	1876.6	1565.3	1162.6	984.1	942.9	933.7	796.4	695.7	686.6	727.7
2668.4	67.5°	1542.5	1299.9	979.5	819.3	791.8	801.0	700.3	599.6	590.4	636.2
2174.1	70°	1277.0	1048.1	782.7	631.6	659.1	700.3	599.6	503.5	489.7	530.9
1766.7	72.5°	1016.1	819.3	599.6	466.9	544.7	595.0	489.7	398.2	389.0	425.7
1364.0	75°	746.1	585.9	407.4	338.7	421.1	466.9	357.0	283.8	270.0	302.1
910.8	77.5°	462.3	329.5	256.3	201.4	288.4	311.2	187.7	164.8	160.2	183.1
553.8	80°	215.1	141.9	123.6	68.7	105.3	123.6	77.8	87.0	91.5	109.8
279.2	82.5°	59.5	22.9	4.6	0.0	0.0	36.6	18.3	36.6	45.8	68.7
22.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	22.9	41.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.3
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°
9199.8	0°	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8	9199.8
8339.3	2.5°	8531.6	8714.6	9007.6	9309.7	9607.2	9909.3	10202.2	10307.5
7378.2	5°	7739.7	8160.8	8742.1	9364.6	10005.4	10655.3	11250.3	11520.4
6384.9	7.5°	6856.4	7460.5	8334.8	9309.7	10330.3	11351.0	12289.3	12724.1
5400.9	10°	5913.5	6677.9	7675.7	8993.8	10458.5	11868.2	13158.9	13721.9
4535.8	12.5°	5016.4	5817.4	6920.5	8499.5	10357.8	12165.7	13717.3	14381.0
3927.1	15°	4265.8	4975.2	6165.2	7913.7	10032.8	12184.0	13982.8	14710.5
3588.4	17.5°	3702.8	4165.1	5396.3	7263.7	9607.2	12014.7	14074.3	14852.4
3405.3	20°	3423.6	3551.8	4398.5	6430.7	9209.0	11854.5	14165.9	14985.2
3258.8	22.5°	3258.8	3290.9	3597.5	5355.1	8733.0	11804.1	14326.1	15168.3
3126.1	25°	3126.1	3135.3	3217.6	4242.9	8005.2	11772.1	14573.2	15420.0
2988.8	27.5°	2993.4	2993.4	3039.1	3419.0	7016.6	11634.8	14893.6	15722.1
2851.5	30°	2860.6	2860.6	2892.7	3025.4	5858.6	11364.7	15278.1	16115.7
2714.2	32.5°	2723.3	2723.3	2750.8	2846.9	4677.7	11026.0	15630.5	16513.9
2572.3	35°	2586.0	2576.9	2613.5	2714.2	3721.1	10595.8	15983.0	16944.1
2430.4	37.5°	2439.6	2435.0	2471.6	2586.0	3213.1	10096.9	16248.4	17530.0
2288.5	40°	2283.9	2283.9	2325.1	2448.7	3066.6	9469.9	16669.5	18372.2
2142.0	42.5°	2142.0	2132.9	2178.7	2329.7	2956.8	8870.3	17424.7	19598.8
2009.3	45°	2004.7	1986.4	2027.6	2215.3	2764.5	8659.7	18834.4	21411.3
1881.2	47.5°	1876.6	1830.8	1867.4	2078.0	2590.6	9447.0	21141.3	23924.1
1766.7	50°	1771.3	1684.3	1716.4	1940.7	2457.9	11154.2	24134.6	27260.7
1661.5	52.5°	1661.5	1547.0	1565.3	1771.3	2338.9	12779.0	27379.7	31663.8
1556.2	55°	1547.0	1418.9	1428.0	1602.0	2169.5	13021.6	30547.0	37668.9
1437.2	57.5°	1418.9	1299.9	1299.9	1446.3	2045.9	11286.9	32982.0	45120.3
1290.7	60°	1277.0	1199.2	1176.3	1322.8	2155.8	7964.0	33265.8	49926.2
1103.1	62.5°	1121.4	1080.2	1048.1	1203.8	2238.2	4718.9	30981.9	48763.6
869.6	65°	942.9	933.7	910.8	1322.8	1885.7	2787.4	26597.1	45198.1
741.5	67.5°	791.8	778.1	778.1	1386.8	1432.6	1753.0	20779.7	40291.5
631.6	70°	682.0	631.6	631.6	1048.1	869.6	1212.9	14509.2	34995.9
521.8	72.5°	572.1	517.2	480.6	837.6	649.9	887.9	9067.1	29970.3
398.2	75°	457.7	416.5	370.7	553.8	485.2	672.8	5268.2	24830.3
251.7	77.5°	329.5	311.2	260.9	407.4	352.4	485.2	3135.3	19159.4
155.6	80°	169.3	173.9	164.8	233.4	238.0	329.5	1785.0	13113.2
100.7	82.5°	100.7	77.8	87.0	114.4	137.3	187.7	672.8	7707.7
73.2	85°	64.1	41.2	41.2	54.9	68.7	73.2	206.0	3126.1
36.6	87.5°	32.0	13.7	18.3	27.5	22.9	18.3	9.2	787.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)