

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: P955360

Luminaire Tested: **GALN-SB8B-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955360
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-SB8B-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 3000K, 450mA 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: 31225 lumens
Efficiency: N/A
Efficacy: 106.6 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

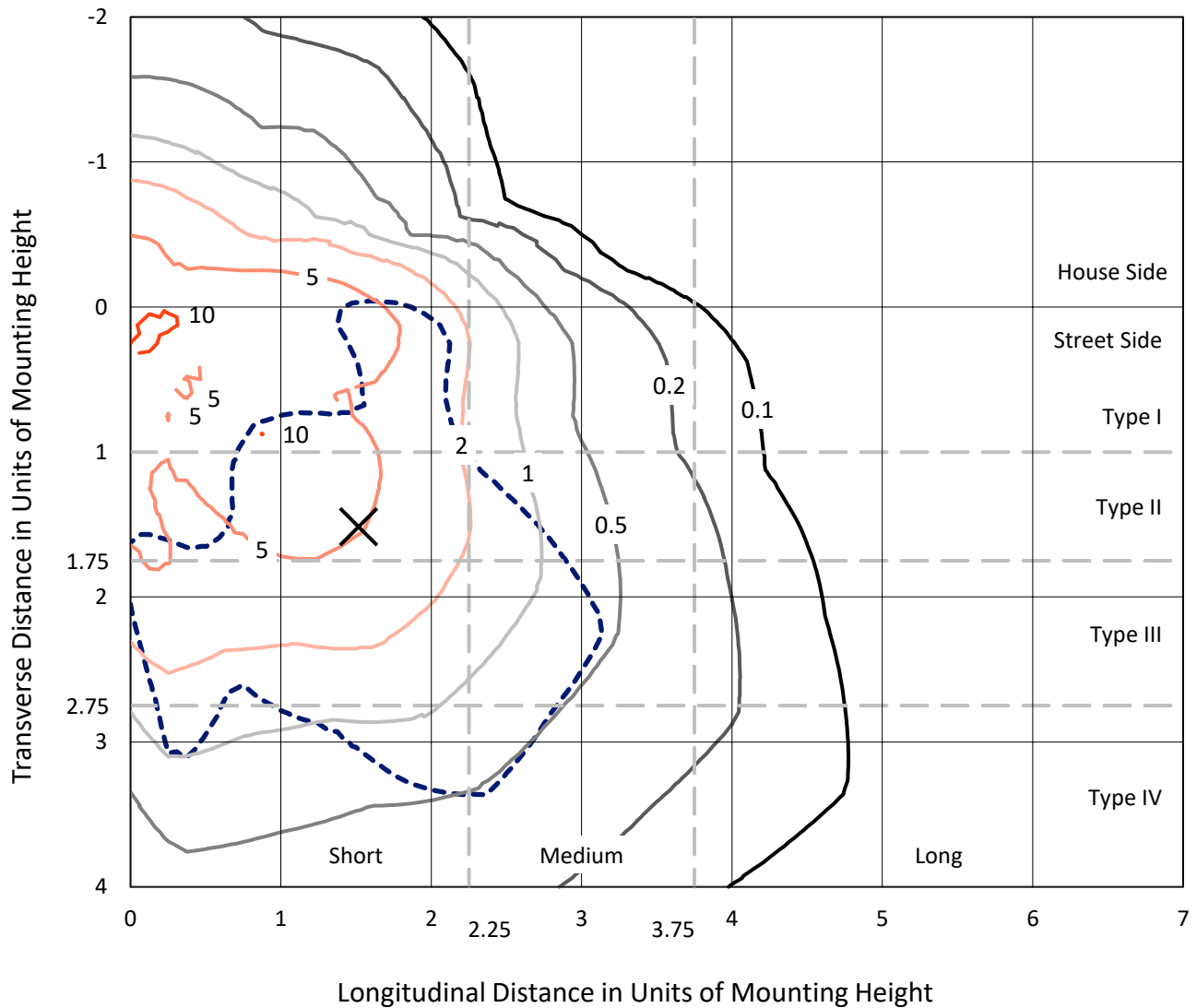
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

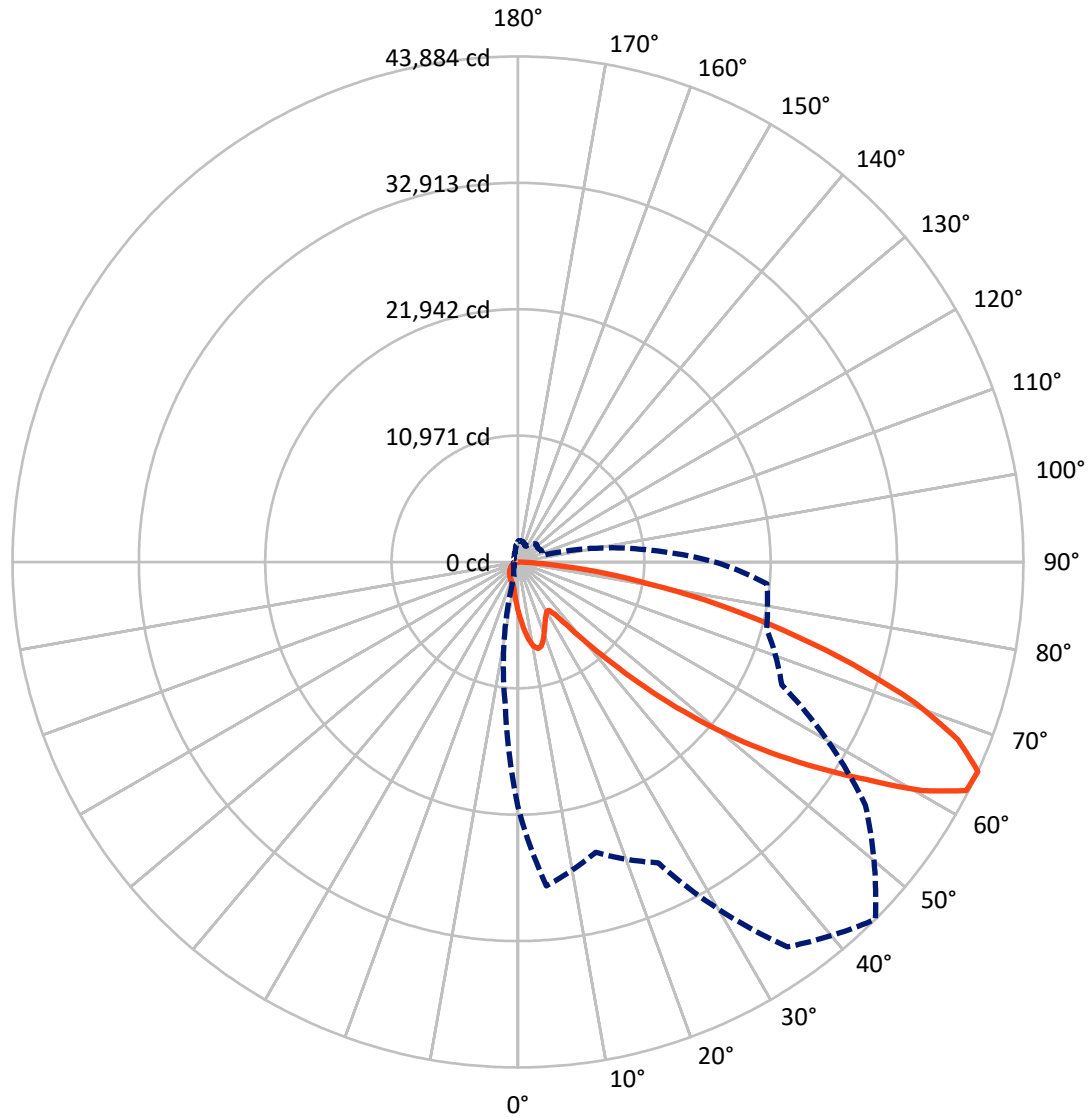
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	6206.6	0.0	6206.6
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	25018.4	0.0	25018.4
	% Fixture	80.1	0.0	80.1
Total	Lumens	31225.0	0.0	31225.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	1.4
10°-20°	1276.1	4.1
20°-30°	1879.9	6.0
30°-40°	2415.2	7.7
40°-50°	3906.0	12.5
50°-60°	6849.6	21.9
60°-70°	8570.7	27.4
70°-80°	5008.3	16.0
80°-90°	893.6	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°	31225.0	100.0
0°-180°	31225.0	100.0



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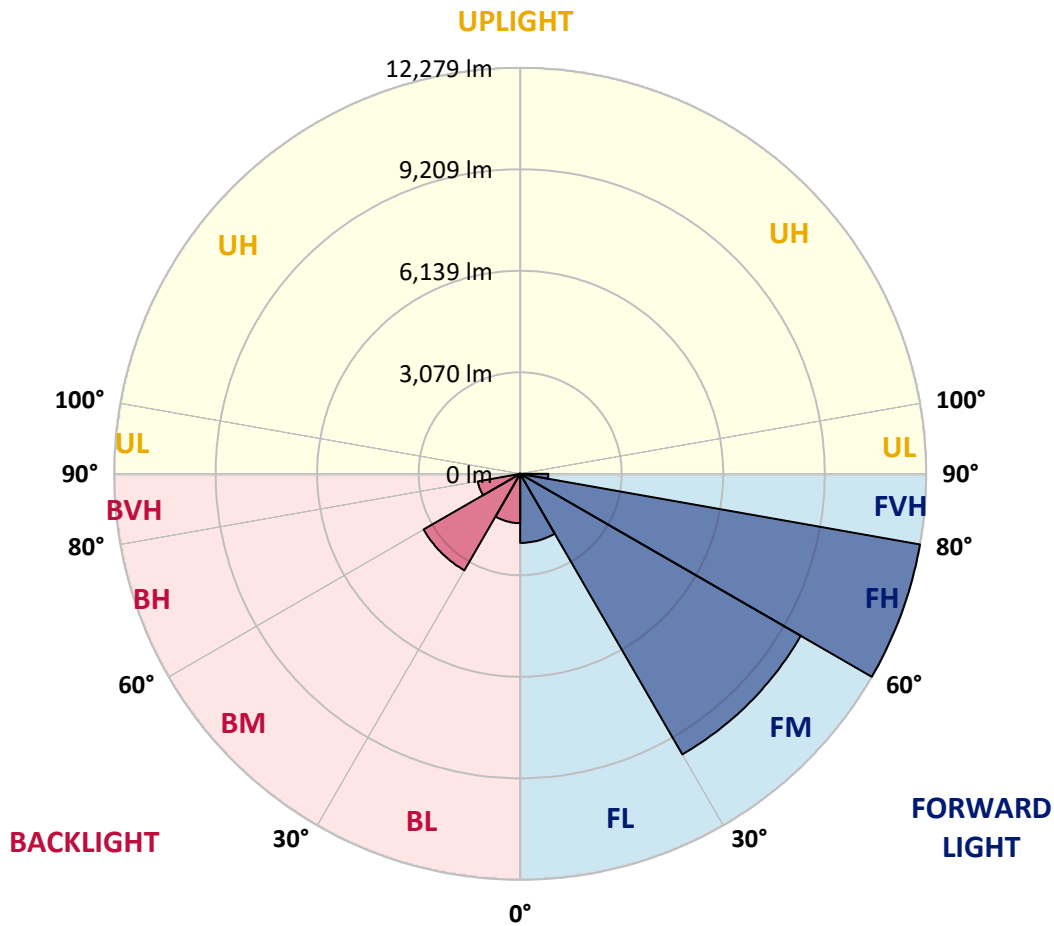
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2089.3	6.7			
FM (30°-60°)	9798.8	31.4			
FH (60°-80°)	12278.6	39.3			G5
FVH (80°-90°)	851.7	2.7			G5
BL (0°-30°)	1492.3	4.8	B3/2500		
BM (30°-60°)	3372.0	10.8	B3/5000		
BH (60°-80°)	1300.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	41.9	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°	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7
2.5°	4844.2	4880.8	4962.5	5005.6	5072.2	5076.5	5076.5	5018.5	5016.3	4898.0
5°	5414.3	5500.3	5693.9	5893.9	5937.0	5947.7	5926.2	5810.1	5724.0	5493.8
7.5°	5980.0	6145.6	6440.3	6707.1	6793.1	6793.1	6741.5	6552.2	6375.8	6042.4
10°	6448.9	6657.6	7057.7	7356.7	7455.6	7434.1	7328.7	7089.9	6846.9	6442.5
12.5°	6758.7	6993.1	7432.0	7672.9	7774.0	7718.1	7597.6	7365.3	7109.3	6683.4
15°	6913.6	7158.8	7539.5	7666.4	7638.5	7580.4	7565.3	7453.5	7259.9	6861.9
17.5°	6980.2	7208.3	7472.8	7393.2	7156.6	7111.5	7262.0	7404.0	7356.7	7016.8
20°	7042.6	7234.1	7313.7	6960.9	6547.9	6507.0	6795.3	7199.7	7406.2	7160.9
22.5°	7128.7	7247.0	7083.5	6504.9	6059.6	5964.9	6283.3	6892.0	7421.2	7343.8
25°	7247.0	7279.2	6829.7	6072.5	5625.1	5530.4	5827.3	6550.0	7395.4	7541.7
27.5°	7388.9	7322.3	6586.6	5711.1	5278.7	5190.5	5487.4	6220.9	7322.3	7739.6
30°	7573.9	7378.2	6345.7	5431.5	5031.4	4966.8	5252.9	5937.0	7231.9	7991.2
32.5°	7761.1	7401.9	6122.0	5268.0	4975.4	4999.1	5233.6	5784.2	7133.0	8232.2
35°	7963.3	7477.1	6012.3	5429.3	5442.2	5648.7	5745.5	5926.2	7117.9	8559.1
37.5°	8238.6	7644.9	6143.5	6231.7	6679.1	7107.2	7027.6	6621.0	7292.1	9047.4
40°	8634.4	7939.6	6715.7	7597.6	8516.1	9210.9	8907.6	7883.7	7825.6	9750.8
42.5°	9210.9	8408.6	7731.0	9266.8	10824.2	11968.6	11155.5	9512.1	8759.2	10755.4
45°	10062.7	9167.9	8959.2	11028.6	13670.1	15472.7	13781.9	11248.0	10067.0	12276.2
47.5°	11243.7	10284.3	10110.1	12884.9	17129.0	19460.8	16694.5	12857.0	11555.6	14349.8
50°	12811.8	11787.9	11200.7	14915.6	20921.4	23526.3	19604.9	14410.1	13261.4	16883.8
52.5°	14881.1	13885.2	12471.9	16849.4	24821.3	27505.8	22528.2	15773.8	15378.0	19824.3
55°	17703.4	17040.8	14210.0	18695.0	28719.0	31509.0	25337.5	17060.2	18174.4	23317.7
57.5°	21205.3	21678.5	16716.0	20835.3	32223.1	35634.7	28159.7	18858.5	21805.5	27224.0
60°	23463.9	27845.7	21515.1	23999.6	36204.8	40300.4	32027.4	22278.7	25621.5	28624.4
62.5°	22917.6	29807.5	27262.7	28039.3	39865.9	43692.7	35817.6	25714.0	26339.9	26561.5
65°	21241.9	28224.3	26090.4	28824.4	40793.0	43884.1	36830.7	25270.8	22343.2	21685.0
67.5°	18935.9	26346.4	23304.8	26742.2	39117.3	41208.2	34944.2	22354.0	17266.7	16272.9
70°	16447.1	24268.4	21476.3	24406.1	35923.0	36544.6	31737.0	19660.8	12700.0	10989.8
72.5°	14085.2	22104.5	20224.4	22012.0	31661.7	30375.3	27561.7	17279.6	9247.5	7926.7
75°	11669.6	18912.3	18441.2	19168.2	26058.1	23926.4	22900.4	14306.8	7257.7	5734.8
77.5°	9004.4	14777.9	15862.0	15350.1	18342.2	17772.2	17750.7	10751.1	5302.4	3826.8
80°	6162.8	10299.4	12392.4	10828.5	11904.1	11613.7	13368.9	7212.6	3846.1	2303.8
82.5°	3622.4	6270.4	8625.8	5242.2	6582.3	6756.5	7961.1	3508.4	2262.9	531.3
85°	1469.2	2475.9	3372.9	2052.1	3175.0	2678.1	3022.3	985.2	630.3	12.9
87.5°	370.0	791.6	555.0	230.2	367.8	337.7	266.7	120.5	25.8	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°
4323.7	0°	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7
4885.1	2.5°	4801.2	4751.7	4629.1	4506.5	4407.6	4274.2	4186.0	4080.6	3979.5	3889.1
5444.4	5°	5308.9	5145.4	4921.7	4717.3	4508.7	4306.5	4106.4	3895.6	3702.0	3583.7
5917.6	7.5°	5721.9	5433.6	5136.8	4876.5	4624.8	4388.2	4123.6	3867.6	3564.3	3403.0
6279.0	10°	6029.5	5650.9	5261.5	4962.5	4708.7	4478.5	4254.8	3996.7	3631.0	3428.8
6498.4	12.5°	6231.7	5782.1	5326.1	4984.0	4700.1	4521.6	4422.6	4321.5	3958.0	3721.4
6659.7	15°	6371.5	5874.6	5371.2	4934.6	4586.1	4454.9	4553.8	4670.0	4437.7	4164.5
6827.5	17.5°	6524.2	5995.0	5390.6	4801.2	4364.5	4308.6	4564.6	4833.5	4822.7	4551.7
6986.7	20°	6685.5	6100.5	5377.7	4586.1	4095.6	4145.1	4472.1	4784.0	4915.2	4768.9
7169.5	22.5°	6851.2	6201.6	5328.2	4306.5	3844.0	3998.9	4325.8	4599.0	4753.9	4708.7
7393.2	25°	7059.8	6343.5	5255.1	4005.3	3635.3	3850.4	4155.9	4377.4	4485.0	4482.8
7634.2	27.5°	7309.4	6532.8	5216.4	3762.2	3486.9	3682.6	3953.7	4151.6	4226.9	4226.9
7933.2	30°	7599.8	6756.5	5173.3	3603.1	3400.9	3508.4	3719.2	3912.8	3988.1	3988.1
8260.1	32.5°	7922.4	6971.6	5070.1	3506.3	3336.3	3338.5	3471.8	3648.2	3738.6	3751.5
8668.8	35°	8309.6	7201.8	4844.2	3428.8	3261.0	3172.8	3237.4	3383.6	3491.2	3519.2
9251.8	37.5°	8817.3	7483.6	4521.6	3314.8	3144.9	2998.6	3013.7	3125.5	3243.8	3286.8
10056.3	40°	9499.2	7814.9	4186.0	3151.3	2981.4	2807.2	2800.7	2882.4	2998.6	3045.9
11144.7	42.5°	10400.5	8212.8	3865.5	2994.3	2783.5	2605.0	2594.2	2658.7	2759.8	2809.3
12581.6	45°	11553.4	8701.1	3590.1	2871.7	2589.9	2413.5	2409.2	2463.0	2551.2	2602.8
14420.8	47.5°	13156.0	9189.4	3403.0	2807.2	2437.2	2256.5	2265.1	2312.4	2392.0	2428.6
16802.1	50°	15244.7	9337.8	3308.4	2807.2	2355.4	2116.7	2159.7	2198.4	2258.6	2280.1
19656.5	52.5°	17249.5	8847.4	3222.3	2824.4	2366.2	1998.3	2090.8	2118.8	2170.4	2179.0
22302.4	55°	18232.5	7606.2	3104.0	2828.7	2432.9	1897.2	2034.9	2086.5	2105.9	2103.8
23838.2	57.5°	17894.8	6149.9	2904.0	2811.5	2478.0	1832.7	1966.1	2065.0	2077.9	2058.6
23545.7	60°	16709.6	4528.0	2751.2	2684.5	2460.8	1813.4	1860.7	2017.7	2037.1	2011.3
21291.4	62.5°	14722.0	3142.7	2632.9	2404.9	2385.5	1806.9	1695.0	1914.5	1961.8	1925.2
17114.0	65°	11590.0	2219.9	2267.2	2108.1	2222.1	1772.5	1523.0	1789.7	1854.2	1798.3
12416.0	67.5°	7842.8	1602.6	1837.0	1910.2	1957.5	1695.0	1398.2	1647.7	1733.8	1660.6
7967.6	70°	4235.5	1125.0	1213.2	1609.0	1662.8	1561.7	1286.3	1503.6	1602.6	1523.0
5663.8	72.5°	2501.7	808.8	849.7	1292.8	1385.3	1374.5	1161.6	1335.8	1456.3	1361.6
3908.5	75°	1378.8	546.4	606.6	937.9	1125.0	1060.5	998.1	1131.5	1254.1	1161.6
2450.1	77.5°	617.4	327.0	421.6	615.2	884.1	727.1	772.2	881.9	995.9	899.1
1363.8	80°	238.8	182.8	279.6	335.6	643.2	402.3	496.9	649.6	731.4	653.9
296.8	82.5°	30.1	81.7	120.5	131.2	374.3	213.0	288.2	408.7	402.3	348.5
0.0	85°	0.0	15.1	17.2	8.6	161.3	77.4	94.6	133.4	124.8	94.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	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°
4323.7	0°	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7
3871.9	2.5°	3766.5	3689.1	3650.4	3618.1	3648.2	3665.4	3665.4	3738.6	3781.6	3798.8
3508.4	5°	3319.1	3175.0	3078.2	3020.1	3039.5	3061.0	3084.6	3177.1	3239.5	3280.4
3256.7	7.5°	2966.3	2746.9	2611.4	2540.4	2551.2	2566.2	2585.6	2675.9	2738.3	2792.1
3209.4	10°	2792.1	2482.3	2303.8	2217.8	2202.7	2194.1	2187.6	2241.4	2288.7	2331.8
3403.0	12.5°	2800.7	2368.3	2151.1	2045.7	2000.5	1948.9	1908.0	1916.6	1946.7	2000.5
3749.3	15°	2910.4	2331.8	2071.5	1940.3	1865.0	1804.8	1755.3	1744.5	1755.3	1763.9
4145.1	17.5°	3058.8	2327.5	2002.7	1839.2	1761.7	1712.3	1667.1	1652.0	1654.2	1664.9
4407.6	20°	3177.1	2314.6	1925.2	1742.4	1673.5	1630.5	1585.3	1570.3	1574.6	1576.7
4433.4	22.5°	3239.5	2295.2	1839.2	1645.6	1587.5	1544.5	1503.6	1501.5	1501.5	1514.4
4293.5	25°	3239.5	2254.3	1761.7	1553.1	1501.5	1462.7	1413.3	1421.9	1426.2	1443.4
4076.3	27.5°	3162.1	2176.9	1699.4	1473.5	1419.7	1381.0	1335.8	1346.6	1353.0	1372.4
3861.2	30°	3063.1	2084.4	1628.4	1398.2	1335.8	1307.9	1269.1	1273.4	1282.0	1303.6
3661.1	32.5°	2957.7	1974.7	1570.3	1322.9	1260.5	1239.0	1196.0	1202.5	1211.1	1234.7
3463.2	35°	2841.6	1845.6	1501.5	1254.1	1191.7	1174.5	1125.0	1129.3	1142.2	1168.0
3250.3	37.5°	2719.0	1740.2	1432.6	1187.4	1122.9	1105.7	1054.0	1058.3	1073.4	1103.5
3026.6	40°	2598.5	1637.0	1359.5	1116.4	1051.9	1036.8	980.9	985.2	1002.4	1034.7
2800.7	42.5°	2467.3	1557.4	1264.8	1043.3	974.4	959.4	907.8	914.2	933.6	965.8
2592.0	45°	2310.3	1505.8	1159.4	974.4	897.0	881.9	834.6	847.5	869.0	901.3
2413.5	47.5°	2148.9	1484.2	1071.2	901.3	817.4	804.5	765.8	787.3	811.0	836.8
2260.8	50°	1994.0	1456.3	980.9	832.5	748.6	735.7	709.9	737.8	761.5	785.1
2151.1	52.5°	1817.7	1396.0	899.1	772.2	690.5	686.2	673.3	699.1	720.6	742.1
2056.4	55°	1634.8	1299.3	828.2	718.5	641.0	645.3	638.9	660.4	677.6	696.9
1970.4	57.5°	1475.6	1176.6	772.2	660.4	598.0	610.9	602.3	613.1	623.8	647.5
1867.1	60°	1314.3	1030.4	709.9	591.5	555.0	570.0	546.4	544.2	548.5	555.0
1714.4	62.5°	1097.0	877.6	632.4	531.3	507.7	514.1	468.9	434.5	434.5	441.0
1501.5	65°	881.9	735.7	546.4	462.5	443.1	438.8	374.3	327.0	322.7	342.0
1254.1	67.5°	724.9	610.9	460.3	385.0	372.1	376.4	329.1	281.8	277.5	299.0
1021.8	70°	600.2	492.6	367.8	296.8	309.8	329.1	281.8	236.6	230.2	249.5
830.3	72.5°	477.5	385.0	281.8	219.4	256.0	279.6	230.2	187.1	182.8	200.1
641.0	75°	350.6	275.3	191.4	159.2	197.9	219.4	167.8	133.4	126.9	142.0
428.1	77.5°	217.3	154.9	120.5	94.6	135.5	146.3	88.2	77.4	75.3	86.0
260.3	80°	101.1	66.7	58.1	32.3	49.5	58.1	36.6	40.9	43.0	51.6
131.2	82.5°	28.0	10.8	2.2	0.0	0.0	17.2	8.6	17.2	21.5	32.3
10.8	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	10.8	19.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.6
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°
4323.7	0°	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7
3919.3	2.5°	4009.6	4095.6	4233.3	4375.3	4515.1	4657.1	4794.7	4844.2
3467.5	5°	3637.5	3835.4	4108.6	4401.1	4702.3	5007.7	5287.3	5414.3
3000.8	7.5°	3222.3	3506.3	3917.1	4375.3	4855.0	5334.7	5775.6	5980.0
2538.3	10°	2779.2	3138.4	3607.4	4226.9	4915.2	5577.7	6184.3	6448.9
2131.7	12.5°	2357.6	2734.0	3252.4	3994.5	4867.9	5717.6	6446.8	6758.7
1845.6	15°	2004.8	2338.2	2897.5	3719.2	4715.2	5726.2	6571.5	6913.6
1686.4	17.5°	1740.2	1957.5	2536.1	3413.8	4515.1	5646.6	6614.6	6980.2
1600.4	20°	1609.0	1669.2	2067.2	3022.3	4328.0	5571.3	6657.6	7042.6
1531.6	22.5°	1531.6	1546.6	1690.7	2516.8	4104.3	5547.6	6732.9	7128.7
1469.2	25°	1469.2	1473.5	1512.2	1994.0	3762.2	5532.6	6849.0	7247.0
1404.7	27.5°	1406.8	1406.8	1428.3	1606.9	3297.6	5468.0	6999.6	7388.9
1340.1	30°	1344.4	1344.4	1359.5	1421.9	2753.4	5341.1	7180.3	7573.9
1275.6	32.5°	1279.9	1279.9	1292.8	1338.0	2198.4	5181.9	7345.9	7761.1
1208.9	35°	1215.4	1211.1	1228.3	1275.6	1748.8	4979.7	7511.6	7963.3
1142.2	37.5°	1146.5	1144.4	1161.6	1215.4	1510.1	4745.3	7636.3	8238.6
1075.5	40°	1073.4	1073.4	1092.7	1150.8	1441.2	4450.6	7834.2	8634.4
1006.7	42.5°	1006.7	1002.4	1023.9	1094.9	1389.6	4168.8	8189.1	9210.9
944.3	45°	942.2	933.6	952.9	1041.1	1299.3	4069.8	8851.7	10062.7
884.1	47.5°	881.9	860.4	877.6	976.6	1217.5	4439.8	9935.8	11243.7
830.3	50°	832.5	791.6	806.7	912.1	1155.1	5242.2	11342.6	12811.8
780.8	52.5°	780.8	727.1	735.7	832.5	1099.2	6005.8	12867.7	14881.1
731.4	55°	727.1	666.8	671.1	752.9	1019.6	6119.8	14356.3	17703.4
675.4	57.5°	666.8	610.9	610.9	679.7	961.5	5304.6	15500.7	21205.3
606.6	60°	600.2	563.6	552.8	621.7	1013.2	3742.9	15634.0	23463.9
518.4	62.5°	527.0	507.7	492.6	565.7	1051.9	2217.8	14560.6	22917.6
408.7	65°	443.1	438.8	428.1	621.7	886.2	1310.0	12499.9	21241.9
348.5	67.5°	372.1	365.7	365.7	651.8	673.3	823.9	9765.9	18935.9
296.8	70°	320.5	296.8	296.8	492.6	408.7	570.0	6818.9	16447.1
245.2	72.5°	268.9	243.1	225.9	393.6	305.5	417.3	4261.3	14085.2
187.1	75°	215.1	195.7	174.2	260.3	228.0	316.2	2475.9	11669.6
118.3	77.5°	154.9	146.3	122.6	191.4	165.6	228.0	1473.5	9004.4
73.1	80°	79.6	81.7	77.4	109.7	111.9	154.9	838.9	6162.8
47.3	82.5°	47.3	36.6	40.9	53.8	64.5	88.2	316.2	3622.4
34.4	85°	30.1	19.4	19.4	25.8	32.3	34.4	96.8	1469.2
17.2	87.5°	15.1	6.5	8.6	12.9	10.8	8.6	4.3	370.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)