

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: P956452

Luminaire Tested: **GALN-SB9A-835-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956452
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-SB9A-835-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 350mA 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: 28923 lumens
Efficiency: N/A
Efficacy: 113.2 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

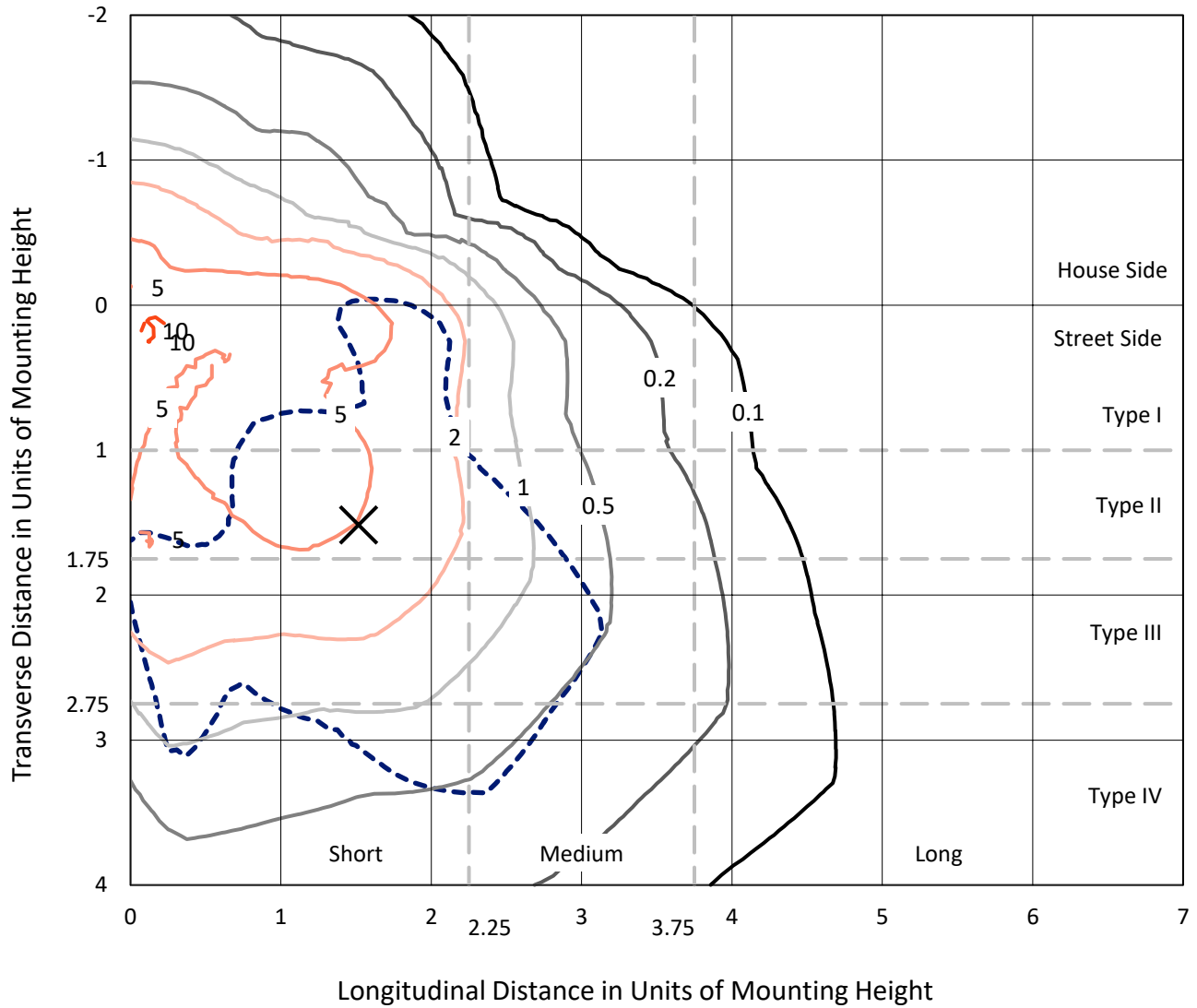
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

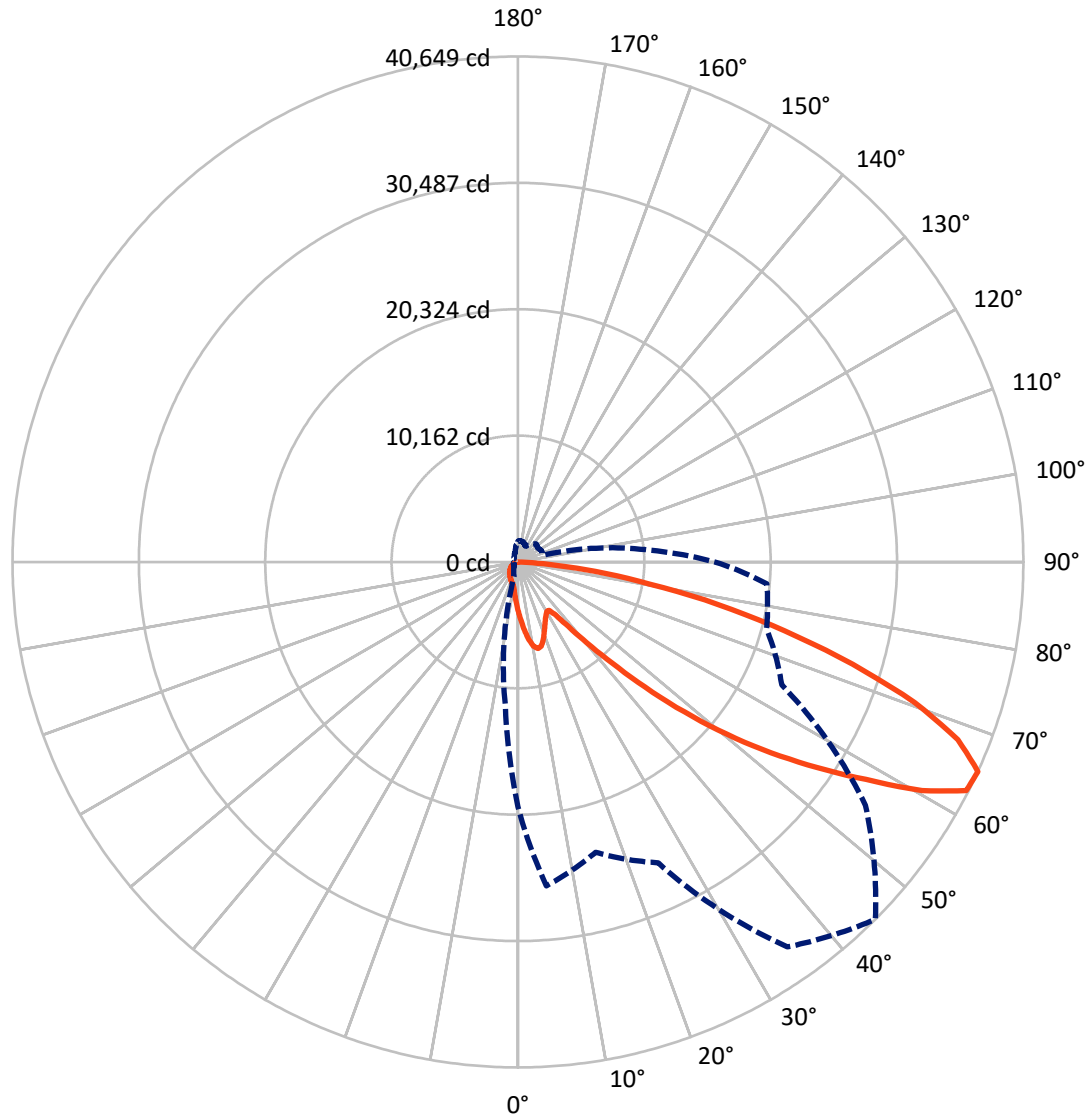
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	5749.0	0.0	5749.0
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	23174.0	0.0	23174.0
	% Fixture	80.1	0.0	80.1
Total	Lumens	28923.0	0.0	28923.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.3	1.4
10°-20°	1182.0	4.1
20°-30°	1741.3	6.0
30°-40°	2237.1	7.7
40°-50°	3618.1	12.5
50°-60°	6344.6	21.9
60°-70°	7938.9	27.4
70°-80°	4639.1	16.0
80°-90°	827.7	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°	28923.0	100.0
0°-180°	28923.0	100.0



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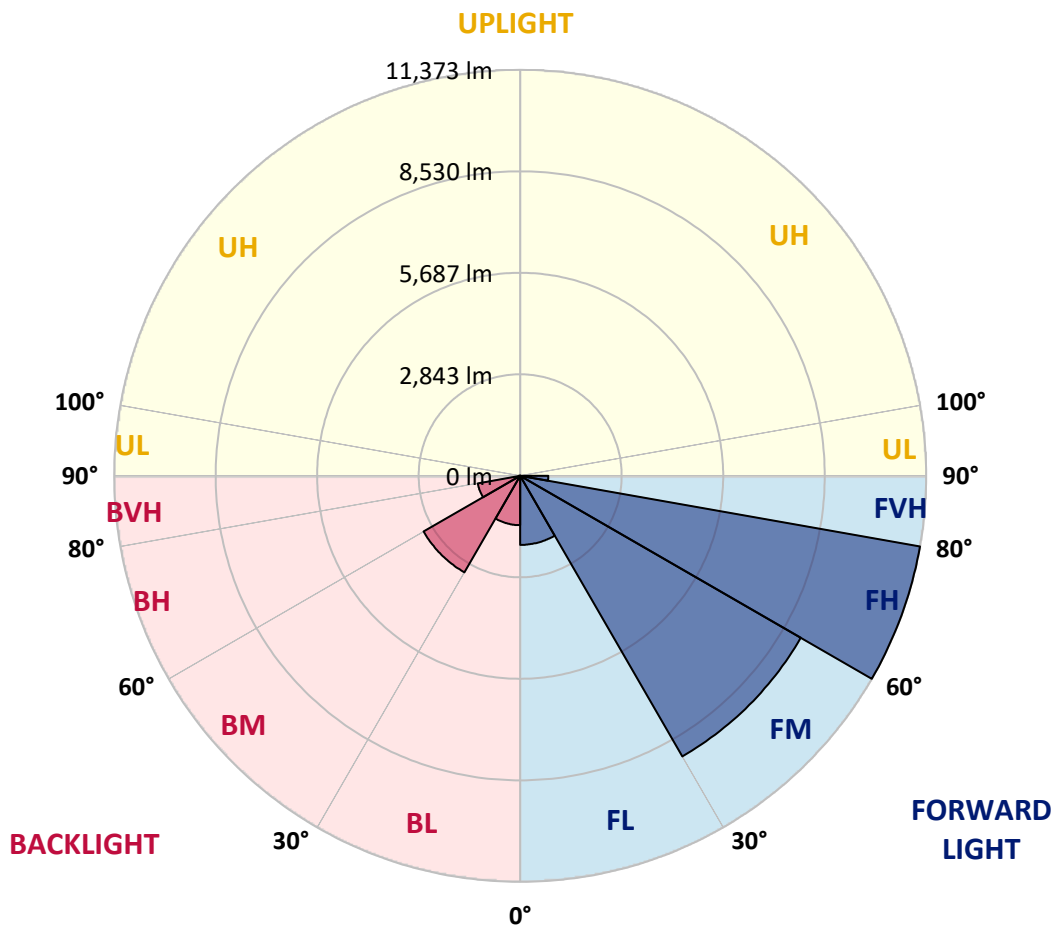
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1935.3	6.7			
FM (30°-60°)	9076.4	31.4			
FH (60°-80°)	11373.4	39.3			G4/12000
FVH (80°-90°)	788.9	2.7			G5
BL (0°-30°)	1382.3	4.8	B3/2500		
BM (30°-60°)	3123.4	10.8	B3/5000		
BH (60°-80°)	1204.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	38.8	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°	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9
2.5°	4487.1	4521.0	4596.7	4636.5	4698.3	4702.3	4702.3	4648.5	4646.5	4536.9
5°	5015.1	5094.8	5274.1	5459.4	5499.3	5509.2	5489.3	5381.7	5302.0	5088.8
7.5°	5539.1	5692.6	5965.5	6212.6	6292.3	6292.3	6244.5	6069.1	5905.7	5596.9
10°	5973.5	6166.8	6537.4	6814.3	6906.0	6886.1	6788.4	6567.3	6342.1	5967.5
12.5°	6260.4	6477.6	6884.1	7107.2	7200.9	7149.1	7037.5	6822.3	6585.2	6190.7
15°	6403.9	6631.0	6983.7	7101.2	7075.3	7021.5	7007.6	6904.0	6724.7	6356.1
17.5°	6465.6	6676.8	6921.9	6848.2	6629.0	6587.2	6726.7	6858.2	6814.3	6499.5
20°	6523.4	6700.8	6774.5	6447.7	6065.1	6027.3	6294.3	6668.9	6860.2	6633.0
22.5°	6603.1	6712.7	6561.3	6025.3	5612.9	5525.2	5820.1	6383.9	6874.1	6802.4
25°	6712.7	6742.6	6326.2	5624.8	5210.4	5122.7	5397.7	6067.1	6850.2	6985.7
27.5°	6844.2	6782.4	6101.0	5290.1	4889.6	4807.9	5082.8	5762.3	6782.4	7169.0
30°	7015.6	6834.2	5877.9	5031.0	4660.4	4600.7	4865.7	5499.3	6698.8	7402.1
32.5°	7188.9	6856.2	5670.6	4879.6	4608.6	4630.6	4847.7	5357.8	6607.1	7625.3
35°	7376.2	6925.9	5569.0	5029.1	5041.0	5232.3	5321.9	5489.3	6593.2	7928.1
37.5°	7631.2	7081.3	5690.6	5772.3	6186.7	6583.2	6509.5	6132.9	6754.5	8380.4
40°	7997.9	7354.3	6220.6	7037.5	7888.3	8531.9	8250.9	7302.5	7248.7	9032.0
42.5°	8531.9	7788.7	7161.0	8583.7	10026.2	11086.2	10333.1	8810.8	8113.4	9962.5
45°	9320.9	8492.0	8298.7	10215.5	12662.3	14332.0	12765.9	10418.7	9324.9	11371.2
47.5°	10414.8	9526.1	9364.7	11935.0	15866.2	18026.1	15463.7	11909.1	10703.7	13291.9
50°	11867.3	10918.9	10374.9	13815.9	19379.0	21791.9	18159.6	13347.7	12283.7	15639.1
52.5°	13784.1	12861.5	11552.5	15607.2	22991.4	25478.0	20867.4	14610.9	14244.3	18362.8
55°	16398.2	15784.5	13162.4	17316.8	26601.8	29186.0	23469.6	15802.5	16834.6	21598.6
57.5°	19642.0	20080.3	15483.7	19299.3	29847.5	33007.6	26083.7	17468.2	20197.9	25217.0
60°	21734.1	25792.8	19928.9	22230.2	33535.6	37329.3	29666.2	20636.2	23732.6	26514.1
62.5°	21228.0	27610.0	25252.9	25972.1	36926.9	40471.5	33177.0	23818.3	24398.1	24603.3
65°	19675.9	26143.5	24166.9	26699.4	37785.6	40648.8	34115.5	23407.8	20696.0	20086.3
67.5°	17539.9	24404.0	21586.7	24770.7	36233.5	38170.2	32368.0	20706.0	15993.7	15073.2
70°	15234.6	22479.3	19893.0	22606.8	33274.6	33850.5	29397.2	18211.4	11763.7	10179.6
72.5°	13046.8	20474.9	18733.4	20389.2	29327.5	28136.0	25529.8	16005.7	8565.7	7342.3
75°	10809.3	17518.0	17081.6	17755.1	24137.1	22162.5	21212.1	13252.1	6722.7	5312.0
77.5°	8340.6	13688.4	14692.6	14218.4	16990.0	16462.0	16442.0	9958.5	4911.5	3544.6
80°	5708.5	9540.1	11478.7	10030.2	11026.5	10757.5	12383.3	6680.8	3562.6	2134.0
82.5°	3355.4	5808.1	7989.9	4855.7	6097.0	6258.4	7374.2	3249.8	2096.1	492.1
85°	1360.9	2293.4	3124.2	1900.8	2940.9	2480.7	2799.5	912.6	583.8	12.0
87.5°	342.7	733.2	514.1	213.2	340.7	312.8	247.1	111.6	23.9	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°
4004.9	0°	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9
4525.0	2.5°	4447.2	4401.4	4287.8	4174.3	4082.6	3959.1	3877.4	3779.8	3686.1	3602.4
5043.0	5°	4917.5	4766.0	4558.8	4369.5	4176.3	3989.0	3803.7	3608.4	3429.1	3319.5
5481.3	7.5°	5300.0	5033.0	4758.1	4517.0	4283.9	4064.7	3819.6	3582.5	3301.6	3152.1
5816.1	10°	5585.0	5234.3	4873.6	4596.7	4361.6	4148.4	3941.2	3702.1	3363.3	3176.0
6019.3	12.5°	5772.3	5355.8	4933.4	4616.6	4353.6	4188.2	4096.6	4002.9	3666.2	3447.0
6168.8	15°	5901.8	5441.5	4975.3	4570.8	4248.0	4126.5	4218.1	4325.7	4110.5	3857.5
6324.2	17.5°	6043.2	5553.1	4993.2	4447.2	4042.8	3991.0	4228.1	4477.1	4467.2	4216.1
6471.6	20°	6192.7	5650.7	4981.2	4248.0	3793.7	3839.5	4142.4	4431.3	4552.8	4417.4
6641.0	22.5°	6346.1	5744.4	4935.4	3989.0	3560.6	3704.0	4006.9	4259.9	4403.4	4361.6
6848.2	25°	6539.4	5875.9	4867.7	3710.0	3367.3	3566.6	3849.5	4054.7	4154.3	4152.4
7071.4	27.5°	6770.5	6051.2	4831.8	3484.9	3229.8	3411.1	3662.2	3845.5	3915.2	3915.2
7348.3	30°	7039.5	6258.4	4791.9	3337.4	3150.1	3249.8	3445.0	3624.3	3694.1	3694.1
7651.2	32.5°	7338.4	6457.7	4696.3	3247.8	3090.4	3092.3	3215.9	3379.3	3463.0	3474.9
8029.7	35°	7697.0	6670.9	4487.1	3176.0	3020.6	2938.9	2998.7	3134.2	3233.8	3259.7
8569.7	37.5°	8167.2	6931.9	4188.2	3070.4	2913.0	2777.5	2791.5	2895.1	3004.7	3044.5
9314.9	40°	8798.8	7238.7	3877.4	2919.0	2761.6	2600.2	2594.2	2669.9	2777.5	2821.4
10323.1	42.5°	9633.7	7607.3	3580.5	2773.5	2578.3	2412.9	2402.9	2462.7	2556.4	2602.2
11654.1	45°	10701.7	8059.6	3325.5	2660.0	2399.0	2235.6	2231.6	2281.4	2363.1	2410.9
13357.7	47.5°	12186.1	8511.9	3152.1	2600.2	2257.5	2090.1	2098.1	2141.9	2215.7	2249.5
15563.4	50°	14120.8	8649.4	3064.5	2600.2	2181.8	1960.6	2000.5	2036.3	2092.1	2112.0
18207.4	52.5°	15977.8	8195.1	2984.8	2616.1	2191.7	1851.0	1936.7	1962.6	2010.4	2018.4
20658.2	55°	16888.4	7045.5	2875.2	2620.1	2253.5	1757.4	1884.9	1932.7	1950.7	1948.7
22080.8	57.5°	16575.5	5696.5	2689.9	2604.2	2295.4	1697.6	1821.1	1912.8	1924.7	1906.8
21809.8	60°	15477.7	4194.2	2548.4	2486.6	2279.4	1679.7	1723.5	1869.0	1886.9	1863.0
19721.7	62.5°	13636.6	2911.0	2438.8	2227.6	2209.7	1673.7	1570.1	1773.3	1817.2	1783.3
15852.3	65°	10735.5	2056.3	2100.1	1952.6	2058.2	1641.8	1410.7	1657.8	1717.5	1665.7
11500.7	67.5°	7264.6	1484.4	1701.6	1769.3	1813.2	1570.1	1295.1	1526.2	1605.9	1538.2
7380.2	70°	3923.2	1042.1	1123.8	1490.4	1540.2	1446.5	1191.5	1392.8	1484.4	1410.7
5246.2	72.5°	2317.3	749.2	787.0	1197.5	1283.2	1273.2	1075.9	1237.3	1348.9	1261.2
3620.4	75°	1277.2	506.1	561.9	868.7	1042.1	982.3	924.5	1048.1	1161.6	1075.9
2269.4	77.5°	571.8	302.9	390.5	569.9	818.9	673.5	715.3	816.9	922.5	832.9
1263.2	80°	221.2	169.4	259.0	310.8	595.8	372.6	460.3	601.7	677.4	605.7
275.0	82.5°	27.9	75.7	111.6	121.5	346.7	197.3	267.0	378.6	372.6	322.8
0.0	85°	0.0	13.9	15.9	8.0	149.4	71.7	87.7	123.5	115.6	87.7
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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°
4004.9	0°	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9
3586.5	2.5°	3488.9	3417.1	3381.3	3351.4	3379.3	3395.2	3395.2	3463.0	3502.8	3518.7
3249.8	5°	3074.4	2940.9	2851.3	2797.5	2815.4	2835.3	2857.2	2942.9	3000.7	3038.6
3016.6	7.5°	2747.6	2544.4	2418.9	2353.1	2363.1	2377.0	2395.0	2478.7	2536.4	2586.3
2972.8	10°	2586.3	2299.3	2134.0	2054.3	2040.3	2032.3	2026.4	2076.2	2120.0	2159.9
3152.1	12.5°	2594.2	2193.7	1992.5	1894.9	1853.0	1805.2	1767.3	1775.3	1803.2	1853.0
3472.9	15°	2695.8	2159.9	1918.8	1797.2	1727.5	1671.7	1625.9	1615.9	1625.9	1633.8
3839.5	17.5°	2833.3	2155.9	1855.0	1703.6	1631.9	1586.0	1544.2	1530.2	1532.2	1542.2
4082.6	20°	2942.9	2143.9	1783.3	1613.9	1550.2	1510.3	1468.5	1454.5	1458.5	1460.5
4106.5	22.5°	3000.7	2126.0	1703.6	1524.3	1470.5	1430.6	1392.8	1390.8	1390.8	1402.7
3977.0	25°	3000.7	2088.1	1631.9	1438.6	1390.8	1354.9	1309.1	1317.0	1321.0	1337.0
3775.8	27.5°	2929.0	2016.4	1574.1	1364.9	1315.0	1279.2	1237.3	1247.3	1253.3	1271.2
3576.5	30°	2837.3	1930.7	1508.3	1295.1	1237.3	1211.4	1175.6	1179.6	1187.5	1207.5
3391.2	32.5°	2739.7	1829.1	1454.5	1225.4	1167.6	1147.7	1107.8	1113.8	1121.8	1143.7
3207.9	35°	2632.1	1709.6	1390.8	1161.6	1103.8	1087.9	1042.1	1046.1	1058.0	1081.9
3010.7	37.5°	2518.5	1611.9	1327.0	1099.9	1040.1	1024.1	976.3	980.3	994.3	1022.1
2803.4	40°	2406.9	1516.3	1259.3	1034.1	974.3	960.4	908.6	912.6	928.5	958.4
2594.2	42.5°	2285.4	1442.6	1171.6	966.4	902.6	888.7	840.8	846.8	864.7	894.6
2401.0	45°	2139.9	1394.7	1074.0	902.6	830.9	816.9	773.1	785.0	805.0	834.9
2235.6	47.5°	1990.5	1374.8	992.3	834.9	757.1	745.2	709.3	729.3	751.2	775.1
2094.1	50°	1847.0	1348.9	908.6	771.1	693.4	681.4	657.5	683.4	705.3	727.3
1992.5	52.5°	1683.7	1293.1	832.9	715.3	639.6	635.6	623.7	647.6	667.5	687.4
1904.8	55°	1514.3	1203.5	767.1	665.5	593.8	597.7	591.8	611.7	627.6	645.6
1825.1	57.5°	1366.8	1089.9	715.3	611.7	553.9	565.9	557.9	567.9	577.8	599.7
1729.5	60°	1217.4	954.4	657.5	547.9	514.1	528.0	506.1	504.1	508.1	514.1
1588.0	62.5°	1016.2	812.9	585.8	492.1	470.2	476.2	434.4	402.5	402.5	408.5
1390.8	65°	816.9	681.4	506.1	428.4	410.5	406.5	346.7	302.9	298.9	316.8
1161.6	67.5°	671.5	565.9	426.4	356.7	344.7	348.7	304.9	261.0	257.0	277.0
946.4	70°	555.9	456.3	340.7	275.0	286.9	304.9	261.0	219.2	213.2	231.1
769.1	72.5°	442.3	356.7	261.0	203.2	237.1	259.0	213.2	173.3	169.4	185.3
593.8	75°	324.8	255.0	177.3	147.4	183.3	203.2	155.4	123.5	117.6	131.5
396.5	77.5°	201.2	143.5	111.6	87.7	125.5	135.5	81.7	71.7	69.7	79.7
241.1	80°	93.6	61.8	53.8	29.9	45.8	53.8	33.9	37.9	39.8	47.8
121.5	82.5°	25.9	10.0	2.0	0.0	0.0	15.9	8.0	15.9	19.9	29.9
10.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	10.0	17.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
4004.9	0°	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9	4004.9
3630.3	2.5°	3714.0	3793.7	3921.2	4052.7	4182.2	4313.7	4441.3	4487.1
3211.9	5°	3369.3	3552.6	3805.7	4076.6	4355.6	4638.5	4897.5	5015.1
2779.5	7.5°	2984.8	3247.8	3628.3	4052.7	4497.1	4941.4	5349.8	5539.1
2351.1	10°	2574.3	2907.0	3341.4	3915.2	4552.8	5166.5	5728.4	5973.5
1974.6	12.5°	2183.8	2532.5	3012.6	3700.1	4509.0	5296.0	5971.5	6260.4
1709.6	15°	1857.0	2165.8	2683.9	3445.0	4367.5	5304.0	6087.1	6403.9
1562.1	17.5°	1611.9	1813.2	2349.1	3162.1	4182.2	5230.3	6126.9	6465.6
1482.4	20°	1490.4	1546.2	1914.8	2799.5	4008.9	5160.6	6166.8	6523.4
1418.7	22.5°	1418.7	1432.6	1566.1	2331.2	3801.7	5138.6	6236.5	6603.1
1360.9	25°	1360.9	1364.9	1400.7	1847.0	3484.9	5124.7	6344.1	6712.7
1301.1	27.5°	1303.1	1303.1	1323.0	1488.4	3054.5	5064.9	6483.6	6844.2
1241.3	30°	1245.3	1245.3	1259.3	1317.0	2550.4	4947.4	6650.9	7015.6
1181.5	32.5°	1185.5	1185.5	1197.5	1239.3	2036.3	4799.9	6804.4	7188.9
1119.8	35°	1125.8	1121.8	1137.7	1181.5	1619.9	4612.6	6957.8	7376.2
1058.0	37.5°	1062.0	1060.0	1075.9	1125.8	1398.7	4395.4	7073.3	7631.2
996.2	40°	994.3	994.3	1012.2	1066.0	1335.0	4122.5	7256.7	7997.9
932.5	42.5°	932.5	928.5	948.4	1014.2	1287.2	3861.5	7585.4	8531.9
874.7	45°	872.7	864.7	882.7	964.4	1203.5	3769.8	8199.1	9320.9
818.9	47.5°	816.9	797.0	812.9	904.6	1127.8	4112.5	9203.3	10414.8
769.1	50°	771.1	733.2	747.2	844.8	1070.0	4855.7	10506.4	11867.3
723.3	52.5°	723.3	673.5	681.4	771.1	1018.2	5563.0	11919.1	13784.1
677.4	55°	673.5	617.7	621.7	697.4	944.4	5668.6	13297.9	16398.2
625.6	57.5°	617.7	565.9	565.9	629.6	890.6	4913.5	14357.9	19642.0
561.9	60°	555.9	522.0	512.1	575.8	938.5	3466.9	14481.4	21734.1
480.2	62.5°	488.2	470.2	456.3	524.0	974.3	2054.3	13487.2	21228.0
378.6	65°	410.5	406.5	396.5	575.8	820.9	1213.4	11578.4	19675.9
322.8	67.5°	344.7	338.7	338.7	603.7	623.7	763.1	9045.9	17539.9
275.0	70°	296.9	275.0	275.0	456.3	378.6	528.0	6316.2	15234.6
227.1	72.5°	249.1	225.2	209.2	364.6	282.9	386.5	3947.1	13046.8
173.3	75°	199.2	181.3	161.4	241.1	211.2	292.9	2293.4	10809.3
109.6	77.5°	143.5	135.5	113.6	177.3	153.4	211.2	1364.9	8340.6
67.7	80°	73.7	75.7	71.7	101.6	103.6	143.5	777.1	5708.5
43.8	82.5°	43.8	33.9	37.9	49.8	59.8	81.7	292.9	3355.4
31.9	85°	27.9	17.9	17.9	23.9	29.9	31.9	89.7	1360.9
15.9	87.5°	13.9	6.0	8.0	12.0	10.0	8.0	4.0	342.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)