

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: P948829

Luminaire Tested: **GALN-SB3D-735-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948829
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-SB3D-735-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 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: 23302 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

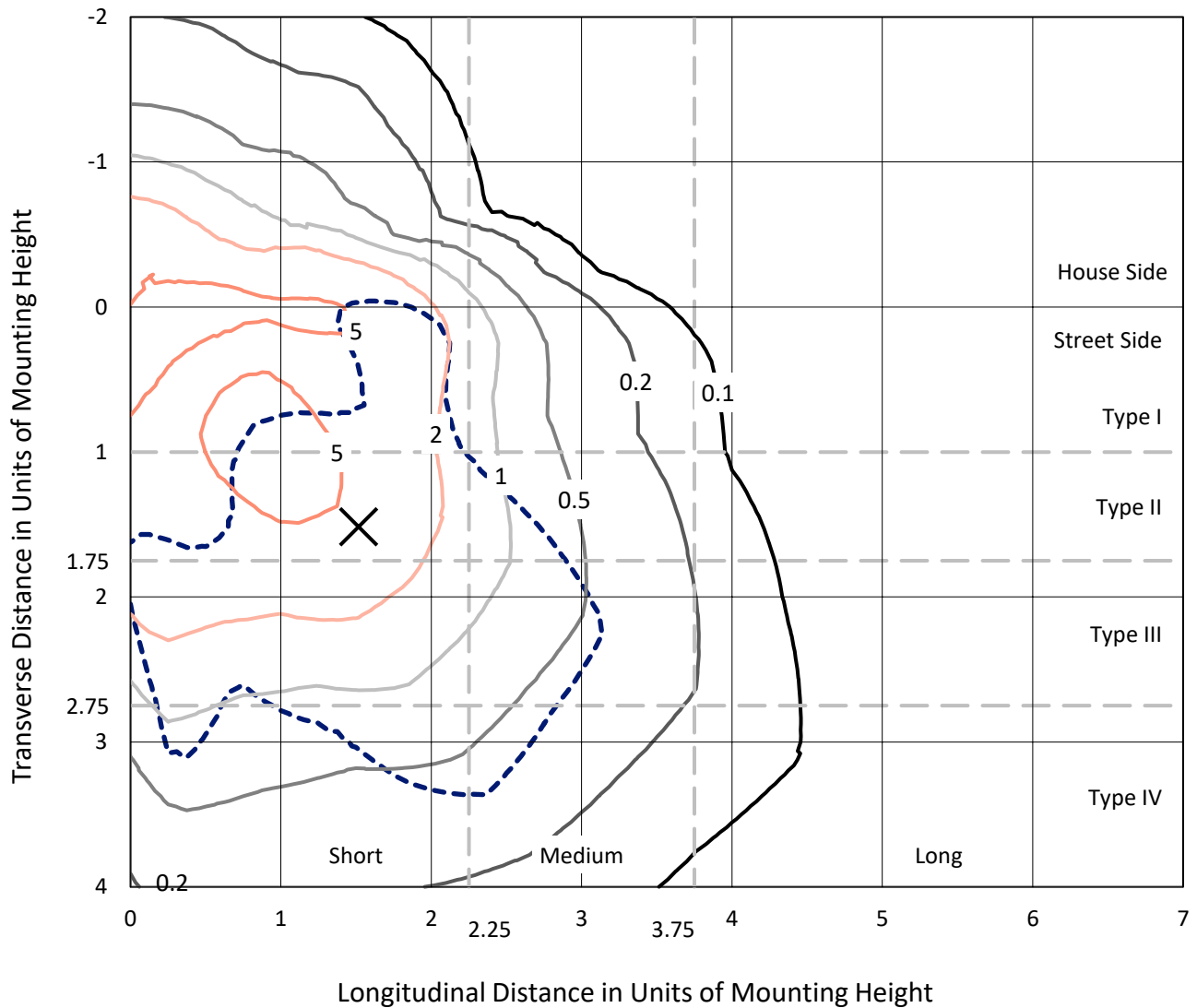
Input Watts (W): 218.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

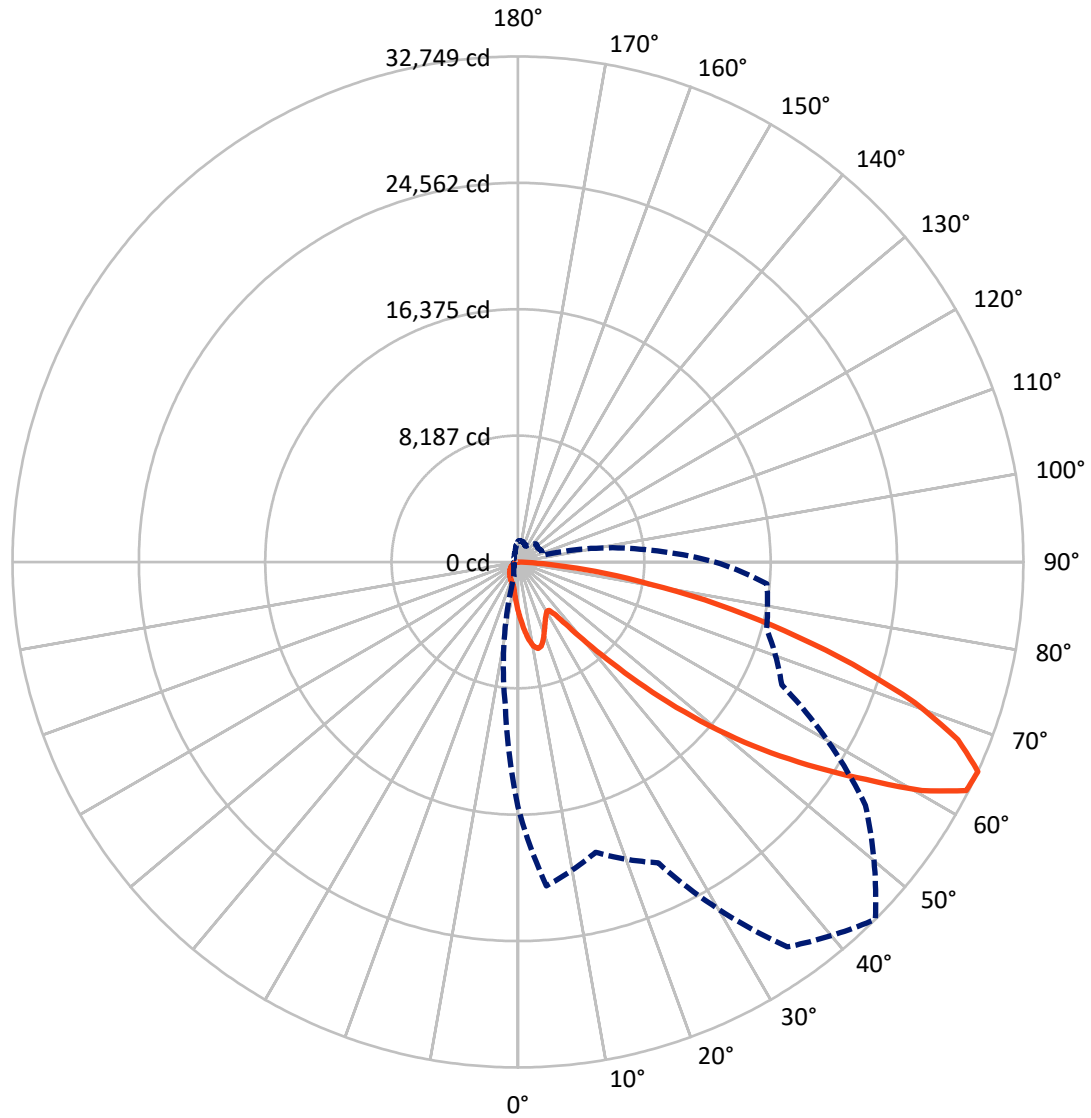
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	4631.7	0.0	4631.7
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	18670.3	0.0	18670.3
	% Fixture	80.1	0.0	80.1
Total	Lumens	23302.0	0.0	23302.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.7	1.4
10°-20°	952.3	4.1
20°-30°	1402.9	6.0
30°-40°	1802.3	7.7
40°-50°	2914.9	12.5
50°-60°	5111.6	21.9
60°-70°	6396.0	27.4
70°-80°	3737.5	16.0
80°-90°	666.8	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°	23302.0	100.0
0°-180°	23302.0	100.0



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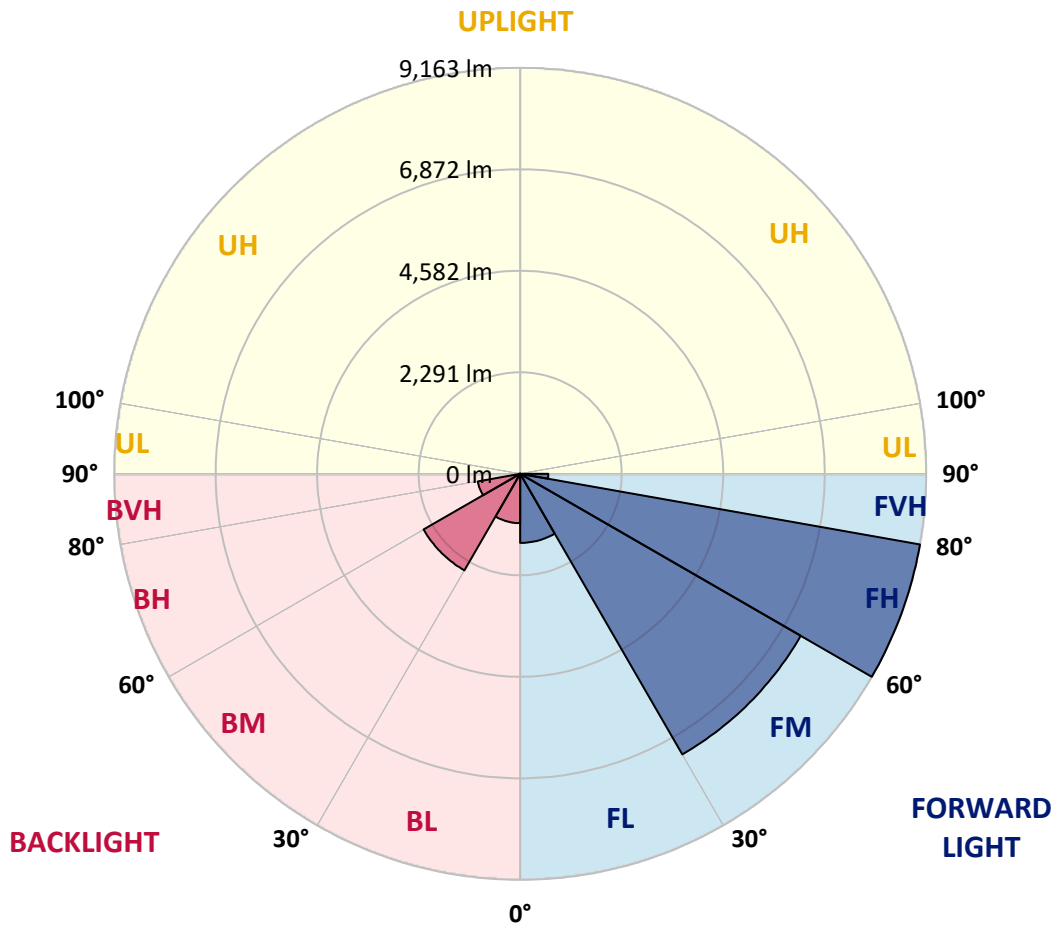
CATALOG NUMBER: GALN-SB3D-735-U-SLL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1559.2	6.7			
FM (30°-60°)	7312.4	31.4			
FH (60°-80°)	9163.1	39.3			G4/12000
FVH (80°-90°)	635.6	2.7			G4/750
BL (0°-30°)	1113.7	4.8	B3/2500		
BM (30°-60°)	2516.4	10.8	B3/5000		
BH (60°-80°)	970.4	4.2	B2/1000		G2/1000
BVH (80°-90°)	31.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6
2.5°	3615.1	3642.3	3703.3	3735.5	3785.2	3788.4	3788.4	3745.1	3743.5	3655.2
5°	4040.5	4104.7	4249.1	4398.4	4430.5	4438.6	4422.5	4335.8	4271.6	4099.8
7.5°	4462.6	4586.2	4806.2	5005.2	5069.4	5069.4	5030.9	4889.6	4758.0	4509.2
10°	4812.6	4968.3	5266.9	5490.0	5563.8	5547.8	5469.1	5291.0	5109.6	4807.8
12.5°	5043.7	5218.7	5546.2	5726.0	5801.4	5759.7	5669.8	5496.4	5305.4	4987.6
15°	5159.3	5342.3	5626.5	5721.2	5700.3	5657.0	5645.7	5562.2	5417.8	5120.8
17.5°	5209.1	5379.2	5576.7	5517.3	5340.7	5307.0	5419.4	5525.3	5490.0	5236.4
20°	5255.6	5398.5	5457.9	5194.6	4886.4	4855.9	5071.0	5372.8	5526.9	5343.9
22.5°	5319.8	5408.1	5286.1	4854.3	4522.0	4451.4	4689.0	5143.3	5538.2	5480.4
25°	5408.1	5432.2	5096.7	4531.7	4197.8	4127.1	4348.7	4888.0	5518.9	5628.1
27.5°	5514.1	5464.3	4915.3	4262.0	3939.3	3873.5	4095.0	4642.4	5464.3	5775.7
30°	5652.1	5506.1	4735.5	4053.3	3754.7	3706.6	3920.1	4430.5	5396.9	5963.6
32.5°	5791.8	5523.7	4568.6	3931.3	3713.0	3730.6	3905.6	4316.6	5323.1	6143.3
35°	5942.7	5579.9	4486.7	4051.7	4061.3	4215.4	4287.7	4422.5	5311.8	6387.3
37.5°	6148.2	5705.1	4584.6	4650.5	4984.3	5303.8	5244.4	4941.0	5441.8	6751.7
40°	6443.5	5925.0	5011.6	5669.8	6355.2	6873.7	6647.4	5883.3	5840.0	7276.7
42.5°	6873.7	6275.0	5769.3	6915.5	8077.7	8931.7	8324.9	7098.5	6536.6	8026.3
45°	7509.4	6841.6	6685.9	8230.2	10201.5	11546.7	10284.9	8393.9	7512.6	9161.2
47.5°	8390.7	7674.8	7544.7	9615.5	12782.7	14522.8	12458.5	9594.7	8623.5	10708.7
50°	9561.0	8796.8	8358.6	11130.9	15612.8	17556.8	14630.4	10753.7	9896.5	12599.7
52.5°	11105.2	10362.0	9307.3	12574.0	18523.1	20526.5	16811.9	11771.4	11476.0	14794.1
55°	13211.3	12716.9	10604.4	13951.4	21431.9	23513.9	18908.4	12731.4	13562.9	17401.1
57.5°	15824.7	16177.9	12474.5	15548.6	24046.9	26592.8	21014.5	14073.4	16272.6	20316.2
60°	17510.2	20780.1	16055.9	17909.9	27018.2	30074.6	23900.8	16625.7	19120.3	21361.3
62.5°	17102.5	22244.1	20345.1	20924.6	29750.4	32606.1	26729.3	19189.3	19656.5	19821.8
65°	15852.0	21062.7	19470.3	21510.5	30442.2	32749.0	27485.3	18858.6	16673.9	16182.7
67.5°	14131.1	19661.3	17391.4	19956.6	29191.7	30752.0	26077.5	16681.9	12885.5	12143.8
70°	12273.9	18110.6	16027.0	18213.3	26807.9	27271.8	23684.1	14672.1	9477.5	8201.3
72.5°	10511.3	16495.7	15092.7	16426.7	23627.9	22667.9	20568.3	12895.1	6901.0	5915.4
75°	8708.6	14113.5	13761.9	14304.5	19446.2	17855.4	17089.6	10676.6	5416.2	4279.6
77.5°	6719.6	11028.2	11837.2	11455.2	13688.1	13262.7	13246.6	8023.1	3957.0	2855.8
80°	4599.1	7686.0	9247.9	8080.9	8883.5	8666.8	9976.7	5382.5	2870.2	1719.2
82.5°	2703.3	4679.3	6437.1	3912.0	4912.1	5042.1	5941.1	2618.2	1688.7	396.5
85°	1096.4	1847.7	2517.1	1531.4	2369.4	1998.6	2255.4	735.2	470.3	9.6
87.5°	276.1	590.7	414.2	171.8	274.5	252.0	199.1	89.9	19.3	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3226.6	0°	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6
3645.6	2.5°	3583.0	3546.0	3454.5	3363.0	3289.2	3189.7	3123.8	3045.2	2969.7	2902.3
4062.9	5°	3961.8	3839.8	3672.8	3520.3	3364.6	3213.7	3064.4	2907.1	2762.7	2674.4
4416.1	7.5°	4270.0	4054.9	3833.4	3639.1	3451.3	3274.7	3077.3	2886.3	2659.9	2539.5
4685.8	10°	4499.6	4217.0	3926.5	3703.3	3513.9	3342.2	3175.2	2982.6	2709.7	2558.8
4849.5	12.5°	4650.5	4315.0	3974.6	3719.4	3507.5	3374.3	3300.4	3225.0	2953.7	2777.1
4969.9	15°	4754.8	4384.0	4008.3	3682.5	3422.4	3324.5	3398.3	3485.0	3311.7	3107.8
5095.1	17.5°	4868.8	4473.9	4022.8	3583.0	3257.1	3215.3	3406.4	3607.0	3599.0	3396.7
5213.9	20°	4989.2	4552.5	4013.2	3422.4	3056.4	3093.3	3337.3	3570.1	3668.0	3558.9
5350.3	22.5°	5112.8	4628.0	3976.2	3213.7	2868.6	2984.2	3228.2	3432.1	3547.6	3513.9
5517.3	25°	5268.5	4733.9	3921.7	2989.0	2712.9	2873.4	3101.4	3266.7	3347.0	3345.4
5697.1	27.5°	5454.7	4875.2	3892.8	2807.6	2602.1	2748.2	2950.5	3098.2	3154.3	3154.3
5920.2	30°	5671.4	5042.1	3860.7	2688.8	2537.9	2618.2	2775.5	2920.0	2976.2	2976.2
6164.2	32.5°	5912.2	5202.7	3783.6	2616.6	2489.8	2491.4	2590.9	2722.5	2789.9	2799.6
6469.2	35°	6201.1	5374.4	3615.1	2558.8	2433.6	2367.8	2415.9	2525.1	2605.3	2626.2
6904.2	37.5°	6580.0	5584.7	3374.3	2473.7	2346.9	2237.7	2249.0	2332.4	2420.7	2452.8
7504.6	40°	7088.8	5831.9	3123.8	2351.7	2224.9	2094.9	2090.1	2151.1	2237.7	2273.1
8316.9	42.5°	7761.5	6128.9	2884.7	2234.5	2077.2	1944.0	1935.9	1984.1	2059.6	2096.5
9389.2	45°	8621.9	6493.3	2679.2	2143.0	1932.7	1801.1	1797.9	1838.0	1903.8	1942.4
10761.7	47.5°	9817.8	6857.7	2539.5	2094.9	1818.8	1683.9	1690.3	1725.7	1785.1	1812.3
12538.7	50°	11376.5	6968.5	2468.9	2094.9	1757.8	1579.6	1611.7	1640.6	1685.5	1701.6
14668.9	52.5°	12872.6	6602.5	2404.7	2107.7	1765.8	1491.3	1560.3	1581.2	1619.7	1626.1
16643.4	55°	13606.2	5676.2	2316.4	2110.9	1815.6	1415.8	1518.6	1557.1	1571.6	1569.9
17789.5	57.5°	13354.2	4589.5	2167.1	2098.1	1849.3	1367.7	1467.2	1541.1	1550.7	1536.2
17571.2	60°	12469.7	3379.1	2053.1	2003.4	1836.4	1353.2	1388.6	1505.7	1520.2	1500.9
15888.9	62.5°	10986.4	2345.3	1964.8	1794.7	1780.2	1348.4	1264.9	1428.7	1464.0	1436.7
12771.5	65°	8649.2	1656.6	1691.9	1573.2	1658.2	1322.7	1136.5	1335.6	1383.7	1342.0
9265.6	67.5°	5852.8	1195.9	1370.9	1425.5	1460.8	1264.9	1043.4	1229.6	1293.8	1239.3
5945.9	70°	3160.8	839.6	905.4	1200.7	1240.9	1165.4	959.9	1122.1	1195.9	1136.5
4226.7	72.5°	1866.9	603.6	634.1	964.8	1033.8	1025.8	866.8	996.9	1086.8	1016.1
2916.8	75°	1029.0	407.7	452.7	699.9	839.6	791.4	744.8	844.4	935.9	866.8
1828.4	77.5°	460.7	244.0	314.6	459.1	659.8	542.6	576.3	658.2	743.2	671.0
1017.7	80°	178.2	136.4	208.7	250.4	480.0	300.2	370.8	484.8	545.8	488.0
221.5	82.5°	22.5	61.0	89.9	97.9	279.3	158.9	215.1	305.0	300.2	260.1
0.0	85°	0.0	11.2	12.8	6.4	120.4	57.8	70.6	99.5	93.1	70.6
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	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°
3226.6	0°	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6
2889.5	2.5°	2810.8	2753.0	2724.1	2700.1	2722.5	2735.4	2735.4	2789.9	2822.1	2834.9
2618.2	5°	2476.9	2369.4	2297.1	2253.8	2268.2	2284.3	2301.9	2371.0	2417.5	2448.0
2430.4	7.5°	2213.7	2049.9	1948.8	1895.8	1903.8	1915.1	1929.5	1996.9	2043.5	2083.6
2395.1	10°	2083.6	1852.5	1719.2	1655.0	1643.8	1637.4	1632.6	1672.7	1708.0	1740.1
2539.5	12.5°	2090.1	1767.4	1605.3	1526.6	1492.9	1454.4	1423.9	1430.3	1452.8	1492.9
2798.0	15°	2171.9	1740.1	1545.9	1447.9	1391.8	1346.8	1309.9	1301.9	1309.9	1316.3
3093.3	17.5°	2282.7	1736.9	1494.5	1372.5	1314.7	1277.8	1244.1	1232.8	1234.4	1242.5
3289.2	20°	2371.0	1727.3	1436.7	1300.3	1248.9	1216.8	1183.1	1171.8	1175.1	1176.7
3308.4	22.5°	2417.5	1712.8	1372.5	1228.0	1184.7	1152.6	1122.1	1120.5	1120.5	1130.1
3204.1	25°	2417.5	1682.3	1314.7	1159.0	1120.5	1091.6	1054.7	1061.1	1064.3	1077.1
3042.0	27.5°	2359.7	1624.5	1268.2	1099.6	1059.5	1030.6	996.9	1004.9	1009.7	1024.2
2881.4	30°	2285.9	1555.5	1215.2	1043.4	996.9	976.0	947.1	950.3	956.7	972.8
2732.2	32.5°	2207.2	1473.6	1171.8	987.2	940.7	924.6	892.5	897.3	903.8	921.4
2584.5	35°	2120.6	1377.3	1120.5	935.9	889.3	876.5	839.6	842.8	852.4	871.7
2425.6	37.5°	2029.1	1298.7	1069.1	886.1	837.9	825.1	786.6	789.8	801.0	823.5
2258.6	40°	1939.2	1221.6	1014.5	833.1	785.0	773.7	732.0	735.2	748.1	772.1
2090.1	42.5°	1841.2	1162.2	943.9	778.6	727.2	715.9	677.4	682.2	696.7	720.8
1934.3	45°	1724.1	1123.7	865.2	727.2	669.4	658.2	622.8	632.5	648.5	672.6
1801.1	47.5°	1603.7	1107.6	799.4	672.6	610.0	600.4	571.5	587.5	605.2	624.4
1687.1	50°	1488.1	1086.8	732.0	621.2	558.6	549.0	529.7	550.6	568.3	585.9
1605.3	52.5°	1356.4	1041.8	671.0	576.3	515.3	512.1	502.4	521.7	537.8	553.8
1534.6	55°	1220.0	969.6	618.0	536.2	478.4	481.6	476.8	492.8	505.7	520.1
1470.4	57.5°	1101.2	878.1	576.3	492.8	446.3	455.9	449.5	457.5	465.5	483.2
1393.4	60°	980.8	768.9	529.7	441.4	414.2	425.4	407.7	406.1	409.3	414.2
1279.4	62.5°	818.7	654.9	471.9	396.5	378.8	383.7	349.9	324.3	324.3	329.1
1120.5	65°	658.2	549.0	407.7	345.1	330.7	327.5	279.3	244.0	240.8	255.2
935.9	67.5°	541.0	455.9	343.5	287.3	277.7	280.9	245.6	210.3	207.1	223.1
762.5	70°	447.9	367.6	274.5	221.5	231.2	245.6	210.3	176.6	171.8	186.2
619.6	72.5°	356.4	287.3	210.3	163.7	191.0	208.7	171.8	139.7	136.4	149.3
478.4	75°	261.7	205.5	142.9	118.8	147.7	163.7	125.2	99.5	94.7	105.9
319.4	77.5°	162.1	115.6	89.9	70.6	101.1	109.2	65.8	57.8	56.2	64.2
194.2	80°	75.4	49.8	43.3	24.1	36.9	43.3	27.3	30.5	32.1	38.5
97.9	82.5°	20.9	8.0	1.6	0.0	0.0	12.8	6.4	12.8	16.1	24.1
8.0	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	8.0	14.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
3226.6	0°	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6	3226.6
2924.8	2.5°	2992.2	3056.4	3159.2	3265.1	3369.4	3475.4	3578.1	3615.1
2587.7	5°	2714.5	2862.2	3066.1	3284.4	3509.1	3737.1	3945.7	4040.5
2239.3	7.5°	2404.7	2616.6	2923.2	3265.1	3623.1	3981.1	4310.1	4462.6
1894.2	10°	2074.0	2342.1	2692.0	3154.3	3668.0	4162.5	4615.1	4812.6
1590.8	12.5°	1759.4	2040.3	2427.2	2981.0	3632.7	4266.8	4811.0	5043.7
1377.3	15°	1496.1	1744.9	2162.3	2775.5	3518.7	4273.2	4904.1	5159.3
1258.5	17.5°	1298.7	1460.8	1892.6	2547.6	3369.4	4213.8	4936.2	5209.1
1194.3	20°	1200.7	1245.7	1542.7	2255.4	3229.8	4157.6	4968.3	5255.6
1142.9	22.5°	1142.9	1154.2	1261.7	1878.2	3062.8	4140.0	5024.5	5319.8
1096.4	25°	1096.4	1099.6	1128.5	1488.1	2807.6	4128.7	5111.2	5408.1
1048.2	27.5°	1049.8	1049.8	1065.9	1199.1	2460.9	4080.6	5223.5	5514.1
1000.1	30°	1003.3	1003.3	1014.5	1061.1	2054.7	3985.9	5358.4	5652.1
951.9	32.5°	955.1	955.1	964.8	998.5	1640.6	3867.1	5482.0	5791.8
902.2	35°	907.0	903.8	916.6	951.9	1305.1	3716.2	5605.6	5942.7
852.4	37.5°	855.6	854.0	866.8	907.0	1126.9	3541.2	5698.7	6148.2
802.6	40°	801.0	801.0	815.5	858.8	1075.5	3321.3	5846.4	6443.5
751.3	42.5°	751.3	748.1	764.1	817.1	1037.0	3111.0	6111.2	6873.7
704.7	45°	703.1	696.7	711.1	776.9	969.6	3037.2	6605.7	7509.4
659.8	47.5°	658.2	642.1	654.9	728.8	908.6	3313.3	7414.7	8390.7
619.6	50°	621.2	590.7	602.0	680.6	862.0	3912.0	8464.6	9561.0
582.7	52.5°	582.7	542.6	549.0	621.2	820.3	4481.9	9602.7	11105.2
545.8	55°	542.6	497.6	500.8	561.8	760.9	4567.0	10713.5	13211.3
504.1	57.5°	497.6	455.9	455.9	507.3	717.6	3958.6	11567.5	15824.7
452.7	60°	447.9	420.6	412.6	463.9	756.1	2793.2	11667.1	17510.2
386.9	62.5°	393.3	378.8	367.6	422.2	785.0	1655.0	10866.0	17102.5
305.0	65°	330.7	327.5	319.4	463.9	661.4	977.6	9328.2	15852.0
260.1	67.5°	277.7	272.9	272.9	486.4	502.4	614.8	7287.9	14131.1
221.5	70°	239.2	221.5	221.5	367.6	305.0	425.4	5088.7	12273.9
183.0	72.5°	200.7	181.4	168.6	293.8	227.9	311.4	3180.0	10511.3
139.7	75°	160.5	146.1	130.0	194.2	170.2	236.0	1847.7	8708.6
88.3	77.5°	115.6	109.2	91.5	142.9	123.6	170.2	1099.6	6719.6
54.6	80°	59.4	61.0	57.8	81.9	83.5	115.6	626.1	4599.1
35.3	82.5°	35.3	27.3	30.5	40.1	48.2	65.8	236.0	2703.3
25.7	85°	22.5	14.4	14.4	19.3	24.1	25.7	72.2	1096.4
12.8	87.5°	11.2	4.8	6.4	9.6	8.0	6.4	3.2	276.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)