

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: P950362

Luminaire Tested: **GALN-SB4D-830-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950362
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-SB4D-830-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 27968 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

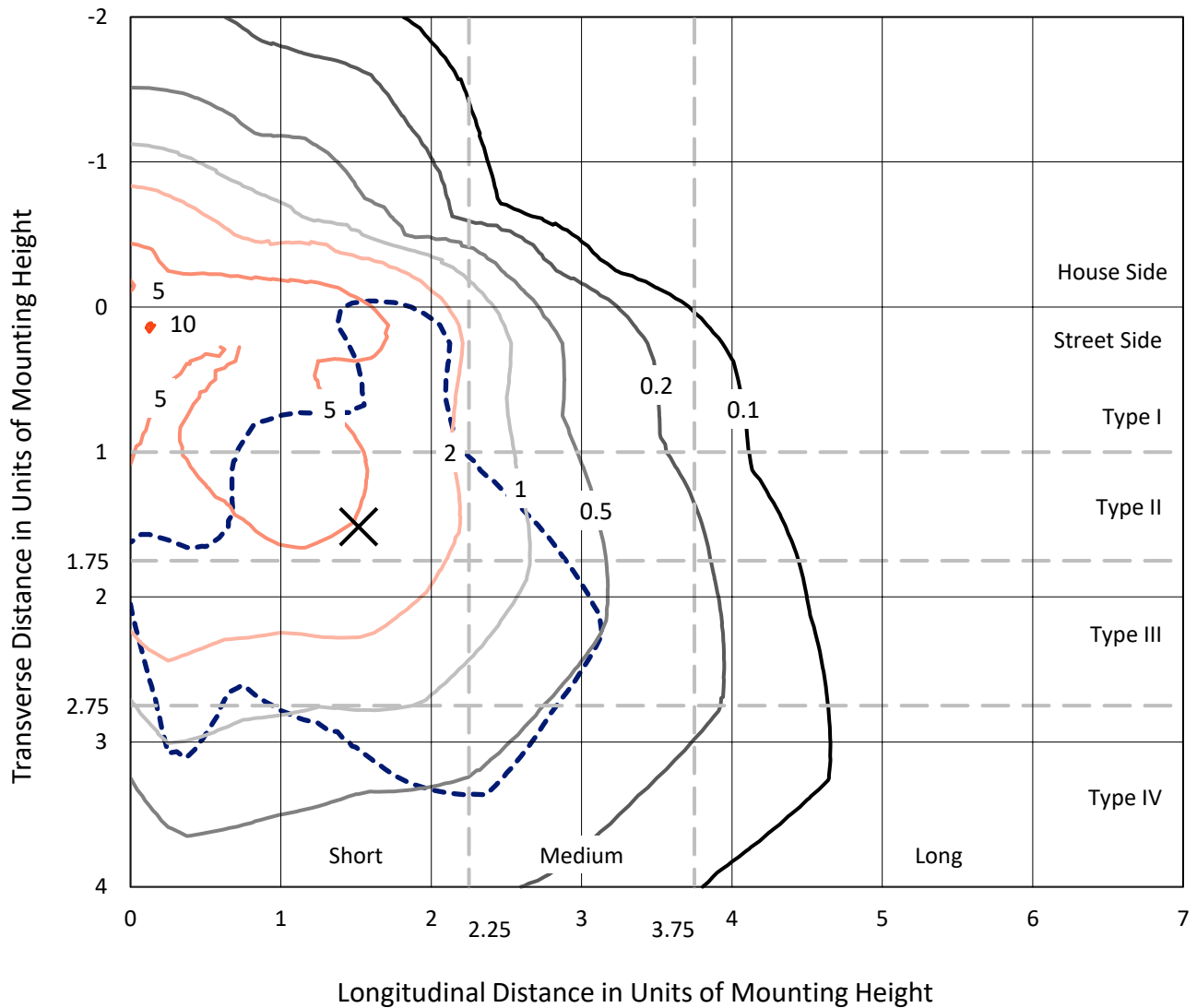
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

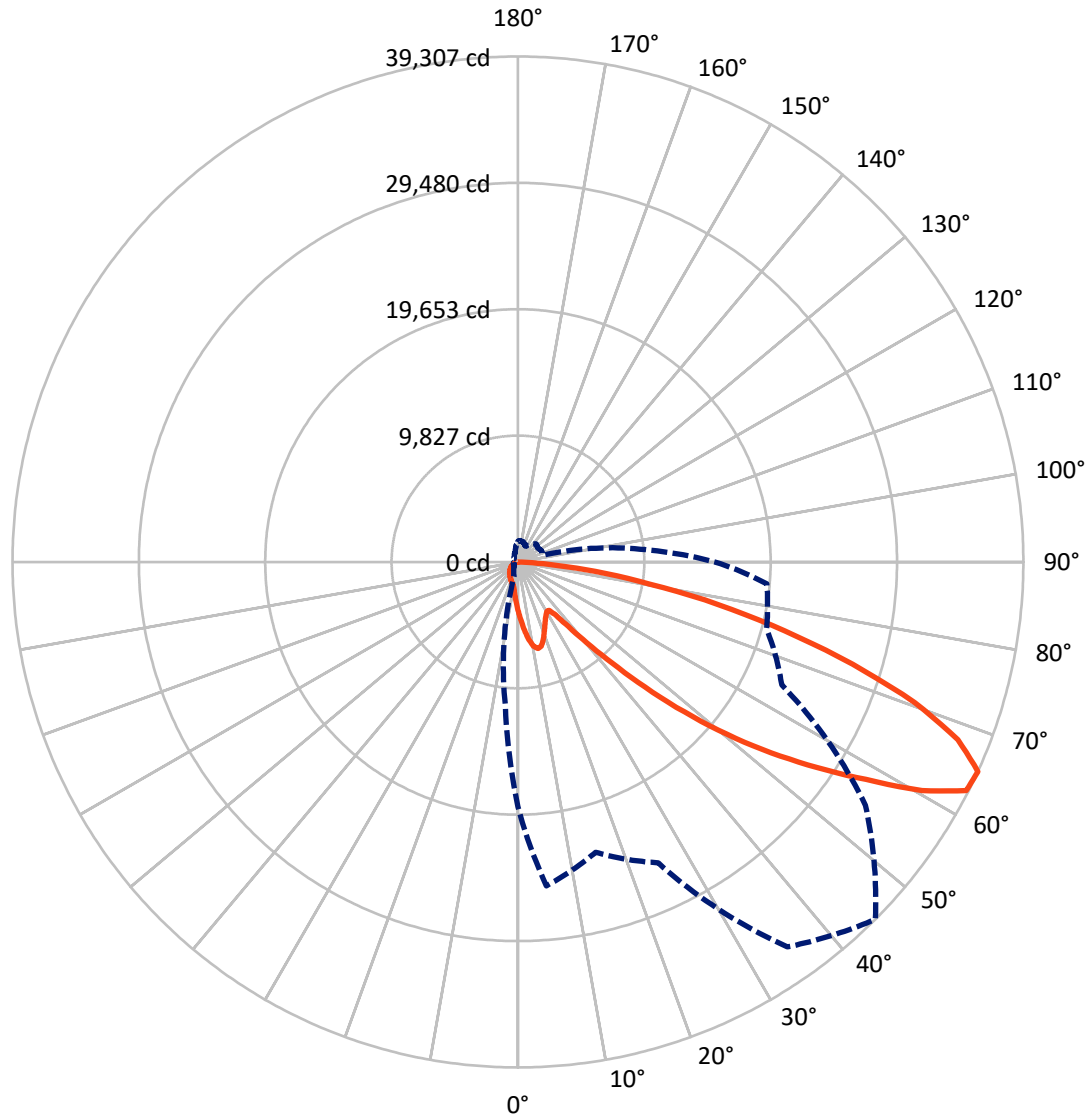
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	5559.2	0.0	5559.2
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	22408.8	0.0	22408.8
	% Fixture	80.1	0.0	80.1
Total	Lumens	27968.0	0.0	27968.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.3	1.4
10°-20°	1143.0	4.1
20°-30°	1683.8	6.0
30°-40°	2163.2	7.7
40°-50°	3498.6	12.5
50°-60°	6135.1	21.9
60°-70°	7676.7	27.4
70°-80°	4485.9	16.0
80°-90°	800.4	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°	27968.0	100.0
0°-180°	27968.0	100.0



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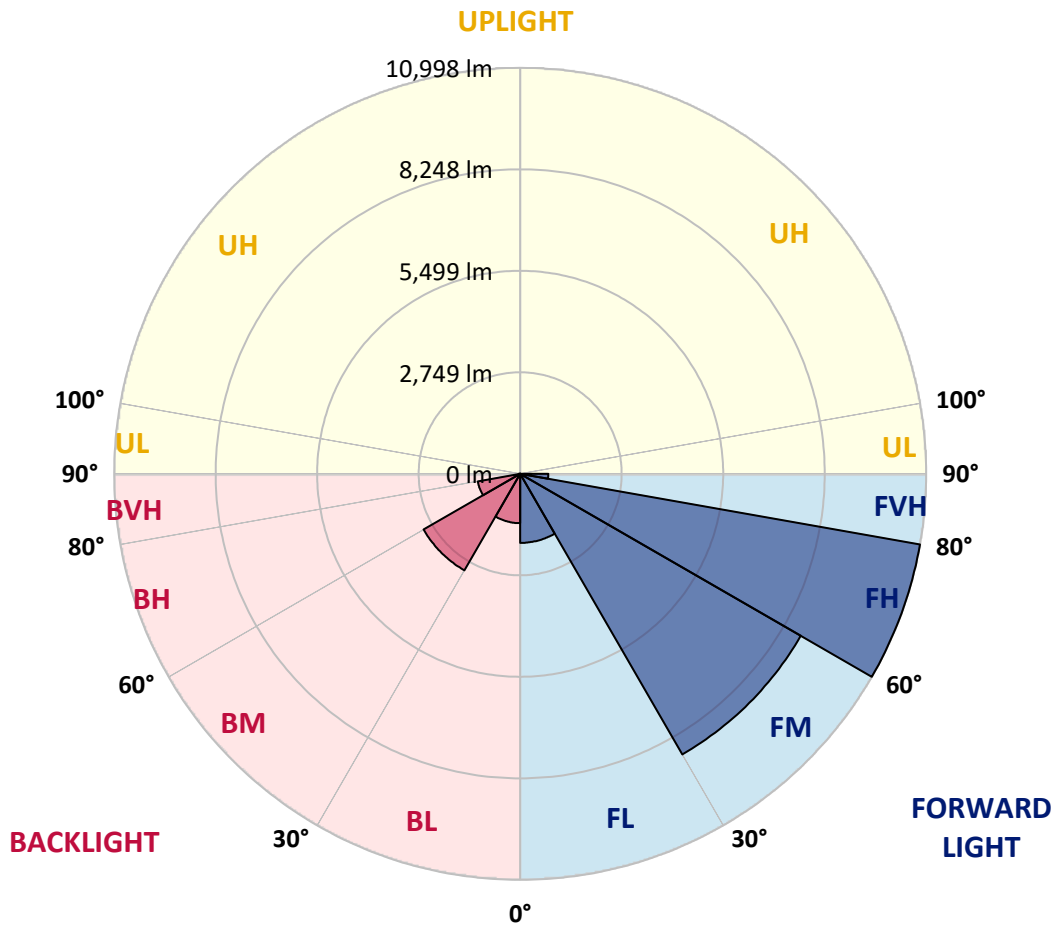
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1871.4	6.7			
FM (30°-60°)	8776.7	31.4			
FH (60°-80°)	10997.9	39.3			G4/12000
FVH (80°-90°)	762.9	2.7			G5
BL (0°-30°)	1336.7	4.8	B3/2500		
BM (30°-60°)	3020.3	10.8	B3/5000		
BH (60°-80°)	1164.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	37.5	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°	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7
2.5°	4338.9	4371.7	4444.9	4483.4	4543.2	4547.0	4547.0	4495.0	4493.1	4387.1
5°	4849.5	4926.6	5100.0	5279.2	5317.7	5327.3	5308.1	5204.0	5127.0	4920.8
7.5°	5356.2	5504.6	5768.5	6007.5	6084.5	6084.5	6038.3	5868.7	5710.7	5412.1
10°	5776.3	5963.1	6321.5	6589.3	6678.0	6658.7	6564.3	6350.4	6132.7	5770.5
12.5°	6053.7	6263.7	6656.8	6872.5	6963.1	6913.0	6805.1	6597.0	6367.8	5986.3
15°	6192.4	6412.1	6753.1	6866.8	6841.7	6789.7	6776.2	6676.0	6502.6	6146.2
17.5°	6252.2	6456.4	6693.4	6622.1	6410.1	6369.7	6504.5	6631.7	6589.3	6284.9
20°	6308.0	6479.5	6550.8	6234.8	5864.9	5828.3	6086.5	6448.7	6633.6	6414.0
22.5°	6385.1	6491.1	6344.6	5826.3	5427.5	5342.7	5627.9	6173.2	6647.1	6577.8
25°	6491.1	6520.0	6117.3	5439.1	5038.3	4953.6	5219.4	5866.8	6624.0	6755.0
27.5°	6618.2	6558.5	5899.6	5115.4	4728.1	4649.1	4915.0	5572.0	6558.5	6932.3
30°	6783.9	6608.6	5683.8	4864.9	4506.6	4448.8	4705.0	5317.7	6477.6	7157.7
32.5°	6951.5	6629.8	5483.4	4718.5	4456.5	4477.7	4687.7	5180.9	6388.9	7373.5
35°	7132.7	6697.2	5385.1	4863.0	4874.6	5059.5	5146.2	5308.1	6375.5	7666.4
37.5°	7379.3	6847.5	5502.7	5581.7	5982.4	6365.8	6294.5	5930.4	6531.5	8103.7
40°	7733.8	7111.5	6015.2	6805.1	7627.8	8250.1	7978.5	7061.4	7009.3	8733.7
42.5°	8250.1	7531.5	6924.6	8300.2	9695.2	10720.2	9991.9	8519.9	7845.5	9633.5
45°	9013.1	8211.6	8024.7	9878.2	12244.2	13858.8	12344.4	10074.7	9017.0	10995.7
47.5°	10070.9	9211.6	9055.5	11541.0	15342.3	17430.9	14953.1	11515.9	10350.2	12853.0
50°	11475.4	10558.3	10032.3	13359.8	18739.1	21072.4	17560.0	12907.0	11878.1	15122.7
52.5°	13328.9	12436.9	11171.0	15091.9	22232.2	24636.8	20178.4	14128.5	13774.0	17756.5
55°	15856.8	15263.3	12727.8	16745.0	25723.4	28222.3	22694.6	15280.7	16278.7	20885.5
57.5°	18993.4	19417.3	14972.4	18662.0	28862.0	31917.8	25222.5	16891.4	19531.0	24384.4
60°	21016.5	24941.2	19270.9	21496.2	32428.3	36096.8	28686.7	19954.9	22949.0	25638.6
62.5°	20527.1	26698.3	24419.0	25114.6	35707.6	39135.2	32081.5	23031.8	23592.5	23790.9
65°	19026.2	25280.3	23369.0	25817.8	36538.0	39306.7	32989.0	22634.9	20012.7	19423.1
67.5°	16960.8	23598.3	20873.9	23952.8	35037.1	36909.8	31299.3	20022.3	15465.6	14575.5
70°	14731.6	21737.1	19236.2	21860.4	32175.9	32732.8	28426.6	17610.1	11375.3	9843.5
72.5°	12616.1	19798.8	18114.9	19716.0	28359.1	27207.0	24686.8	15477.2	8282.9	7099.9
75°	10452.4	16939.6	16517.6	17168.9	23340.1	21430.7	20511.7	12814.5	6500.7	5136.6
77.5°	8065.2	13236.4	14207.5	13749.0	16429.0	15918.4	15899.2	9629.7	4749.3	3427.6
80°	5520.0	9225.1	11099.7	9699.0	10662.4	10402.3	11974.5	6460.2	3444.9	2063.5
82.5°	3244.6	5616.3	7726.1	4695.4	5895.7	6051.8	7130.7	3142.5	2026.9	475.9
85°	1315.9	2217.6	3021.1	1838.1	2843.8	2398.7	2707.0	882.4	564.5	11.6
87.5°	331.4	709.0	497.1	206.2	329.5	302.5	238.9	107.9	23.1	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°
3872.7	0°	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7
4375.5	2.5°	4300.4	4256.1	4146.3	4036.4	3947.8	3828.4	3749.4	3655.0	3564.4	3483.5
4876.5	5°	4755.1	4608.7	4408.3	4225.3	4038.4	3857.3	3678.1	3489.3	3315.9	3209.9
5300.4	7.5°	5125.0	4866.9	4601.0	4367.8	4142.4	3930.5	3693.5	3464.2	3192.5	3048.0
5624.0	10°	5400.5	5061.4	4712.7	4444.9	4217.6	4011.4	3811.0	3579.8	3252.3	3071.2
5820.6	12.5°	5581.7	5179.0	4770.5	4464.2	4209.8	4049.9	3961.3	3870.7	3545.1	3333.2
5965.1	15°	5706.9	5261.8	4811.0	4419.9	4107.7	3990.2	4078.8	4182.9	3974.8	3730.1
6115.4	17.5°	5843.7	5369.7	4828.3	4300.4	3909.3	3859.2	4088.5	4329.3	4319.7	4076.9
6257.9	20°	5988.2	5464.1	4816.8	4107.7	3668.4	3712.8	4005.6	4285.0	4402.5	4271.5
6421.7	22.5°	6136.5	5554.7	4772.4	3857.3	3443.0	3581.7	3874.6	4119.3	4258.0	4217.6
6622.1	25°	6323.4	5681.8	4706.9	3587.5	3256.1	3448.8	3722.4	3920.8	4017.2	4015.2
6837.9	27.5°	6546.9	5851.4	4672.3	3369.8	3123.2	3298.5	3541.3	3718.5	3786.0	3786.0
7105.7	30°	6807.0	6051.8	4633.7	3227.2	3046.1	3142.5	3331.3	3504.7	3572.1	3572.1
7398.5	32.5°	7096.0	6244.4	4541.2	3140.5	2988.3	2990.2	3109.7	3267.7	3348.6	3360.2
7764.6	35°	7442.9	6450.6	4338.9	3071.2	2920.9	2841.9	2899.7	3030.7	3127.0	3152.1
8286.7	37.5°	7897.6	6703.0	4049.9	2969.0	2816.8	2685.8	2699.3	2799.5	2905.5	2944.0
9007.3	40°	8508.3	6999.7	3749.4	2822.6	2670.4	2514.3	2508.6	2581.8	2685.8	2728.2
9982.2	42.5°	9315.6	7356.2	3462.3	2682.0	2493.2	2333.2	2323.6	2381.4	2472.0	2516.3
11269.3	45°	10348.3	7793.5	3215.7	2572.1	2319.8	2161.8	2157.9	2206.1	2285.1	2331.3
12916.6	47.5°	11783.7	8230.9	3048.0	2514.3	2183.0	2021.1	2028.8	2071.2	2142.5	2175.2
15049.5	50°	13654.5	8363.8	2963.3	2514.3	2109.7	1895.9	1934.4	1969.1	2023.0	2042.3
17606.2	52.5°	15450.2	7924.5	2886.2	2529.8	2119.4	1789.9	1872.8	1897.8	1944.0	1951.8
19976.1	55°	16330.7	6812.8	2780.2	2533.6	2179.1	1699.4	1822.7	1868.9	1886.2	1884.3
21351.7	57.5°	16028.2	5508.4	2601.0	2518.2	2219.6	1641.6	1761.0	1849.6	1861.2	1843.9
21089.7	60°	14966.6	4055.7	2464.3	2404.5	2204.1	1624.2	1666.6	1807.2	1824.6	1801.5
19070.5	62.5°	13186.4	2814.9	2358.3	2154.1	2136.7	1618.4	1518.2	1714.8	1757.2	1724.4
15328.8	65°	10381.1	1988.4	2030.7	1888.2	1990.3	1587.6	1364.1	1603.0	1660.8	1610.7
11120.9	67.5°	7024.8	1435.4	1645.4	1710.9	1753.3	1518.2	1252.4	1475.9	1552.9	1487.4
7136.5	70°	3793.7	1007.7	1086.7	1441.2	1489.3	1398.8	1152.2	1346.8	1435.4	1364.1
5073.0	72.5°	2240.8	724.4	761.0	1157.9	1240.8	1231.2	1040.4	1196.5	1304.4	1219.6
3500.8	75°	1235.0	489.4	543.3	840.0	1007.7	949.9	894.0	1013.4	1123.3	1040.4
2194.5	77.5°	553.0	292.9	377.6	551.0	791.9	651.2	691.7	789.9	892.1	805.4
1221.5	80°	213.9	163.8	250.5	300.6	576.1	360.3	445.1	581.9	655.1	585.7
265.9	82.5°	27.0	73.2	107.9	117.5	335.2	190.7	258.2	366.1	360.3	312.1
0.0	85°	0.0	13.5	15.4	7.7	144.5	69.4	84.8	119.5	111.7	84.8
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	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°
3872.7	0°	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7
3468.1	2.5°	3373.7	3304.3	3269.6	3240.7	3267.7	3283.1	3283.1	3348.6	3387.1	3402.6
3142.5	5°	2972.9	2843.8	2757.1	2705.1	2722.4	2741.7	2762.9	2845.7	2901.6	2938.2
2917.0	7.5°	2656.9	2460.4	2339.0	2275.4	2285.1	2298.6	2315.9	2396.8	2452.7	2500.9
2874.6	10°	2500.9	2223.4	2063.5	1986.4	1972.9	1965.2	1959.5	2007.6	2050.0	2088.5
3048.0	12.5°	2508.6	2121.3	1926.7	1832.3	1791.8	1745.6	1709.0	1716.7	1743.7	1791.8
3358.2	15°	2606.8	2088.5	1855.4	1737.9	1670.5	1616.5	1572.2	1562.6	1572.2	1579.9
3712.8	17.5°	2739.8	2084.7	1793.8	1647.3	1578.0	1533.7	1493.2	1479.7	1481.6	1491.3
3947.8	20°	2845.7	2073.1	1724.4	1560.6	1499.0	1460.4	1420.0	1406.5	1410.3	1412.3
3970.9	22.5°	2901.6	2055.8	1647.3	1473.9	1421.9	1383.4	1346.8	1344.8	1344.8	1356.4
3845.7	25°	2901.6	2019.2	1578.0	1391.1	1344.8	1310.2	1265.8	1273.6	1277.4	1292.8
3651.1	27.5°	2832.3	1949.8	1522.1	1319.8	1271.6	1236.9	1196.5	1206.1	1211.9	1229.2
3458.4	30°	2743.6	1867.0	1458.5	1252.4	1196.5	1171.4	1136.8	1140.6	1148.3	1167.6
3279.2	32.5°	2649.2	1768.7	1406.5	1184.9	1129.0	1109.8	1071.2	1077.0	1084.7	1105.9
3102.0	35°	2545.2	1653.1	1344.8	1123.3	1067.4	1052.0	1007.7	1011.5	1023.1	1046.2
2911.2	37.5°	2435.4	1558.7	1283.2	1063.5	1005.7	990.3	944.1	947.9	961.4	988.4
2710.9	40°	2327.5	1466.2	1217.7	1000.0	942.2	928.7	878.6	882.4	897.8	926.7
2508.6	42.5°	2209.9	1394.9	1132.9	934.5	872.8	859.3	813.1	818.8	836.2	865.1
2321.7	45°	2069.3	1348.7	1038.5	872.8	803.4	789.9	747.6	759.1	778.4	807.3
2161.8	47.5°	1924.8	1329.4	959.5	807.3	732.1	720.6	685.9	705.2	726.4	749.5
2025.0	50°	1786.1	1304.4	878.6	745.6	670.5	658.9	635.8	660.9	682.1	703.2
1926.7	52.5°	1628.1	1250.4	805.4	691.7	618.5	614.6	603.1	626.2	645.4	664.7
1841.9	55°	1464.3	1163.7	741.8	643.5	574.2	578.0	572.2	591.5	606.9	624.3
1764.9	57.5°	1321.7	1053.9	691.7	591.5	535.6	547.2	539.5	549.1	558.7	579.9
1672.4	60°	1177.2	922.9	635.8	529.8	497.1	510.6	489.4	487.5	491.3	497.1
1535.6	62.5°	982.6	786.1	566.5	475.9	454.7	460.5	420.0	389.2	389.2	395.0
1344.8	65°	789.9	658.9	489.4	414.2	396.9	393.0	335.2	292.9	289.0	306.3
1123.3	67.5°	649.3	547.2	412.3	344.9	333.3	337.2	294.8	252.4	248.5	267.8
915.2	70°	537.6	441.2	329.5	265.9	277.4	294.8	252.4	211.9	206.2	223.5
743.7	72.5°	427.7	344.9	252.4	196.5	229.3	250.5	206.2	167.6	163.8	179.2
574.2	75°	314.1	246.6	171.5	142.6	177.3	196.5	150.3	119.5	113.7	127.2
383.4	77.5°	194.6	138.7	107.9	84.8	121.4	131.0	79.0	69.4	67.4	77.1
233.1	80°	90.6	59.7	52.0	28.9	44.3	52.0	32.8	36.6	38.5	46.2
117.5	82.5°	25.0	9.6	1.9	0.0	0.0	15.4	7.7	15.4	19.3	28.9
9.6	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	9.6	17.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
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°
3872.7	0°	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7	3872.7
3510.5	2.5°	3591.4	3668.4	3791.8	3918.9	4044.1	4171.3	4294.6	4338.9
3105.8	5°	3258.1	3435.3	3680.0	3942.0	4211.8	4485.4	4735.8	4849.5
2687.8	7.5°	2886.2	3140.5	3508.5	3918.9	4348.6	4778.2	5173.2	5356.2
2273.5	10°	2489.3	2811.1	3231.1	3786.0	4402.5	4995.9	5539.3	5776.3
1909.4	12.5°	2111.7	2448.8	2913.2	3577.9	4360.1	5121.2	5774.3	6053.7
1653.1	15°	1795.7	2094.3	2595.3	3331.3	4223.3	5128.9	5886.1	6192.4
1510.5	17.5°	1558.7	1753.3	2271.6	3057.7	4044.1	5057.6	5924.6	6252.2
1433.5	20°	1441.2	1495.1	1851.6	2707.0	3876.5	4990.2	5963.1	6308.0
1371.8	22.5°	1371.8	1385.3	1514.4	2254.2	3676.1	4969.0	6030.6	6385.1
1315.9	25°	1315.9	1319.8	1354.5	1786.1	3369.8	4955.5	6134.6	6491.1
1258.1	27.5°	1260.1	1260.1	1279.3	1439.2	2953.6	4897.7	6269.5	6618.2
1200.3	30°	1204.2	1204.2	1217.7	1273.6	2466.2	4784.0	6431.3	6783.9
1142.5	32.5°	1146.4	1146.4	1157.9	1198.4	1969.1	4641.4	6579.7	6951.5
1082.8	35°	1088.6	1084.7	1100.1	1142.5	1566.4	4460.3	6728.0	7132.7
1023.1	37.5°	1026.9	1025.0	1040.4	1088.6	1352.5	4250.3	6839.8	7379.3
963.4	40°	961.4	961.4	978.8	1030.8	1290.9	3986.3	7017.1	7733.8
901.7	42.5°	901.7	897.8	917.1	980.7	1244.7	3734.0	7335.0	8250.1
845.8	45°	843.9	836.2	853.5	932.5	1163.7	3645.3	7928.4	9013.1
791.9	47.5°	789.9	770.7	786.1	874.7	1090.5	3976.7	8899.4	10070.9
743.7	50°	745.6	709.0	722.5	816.9	1034.6	4695.4	10159.5	11475.4
699.4	52.5°	699.4	651.2	658.9	745.6	984.5	5379.4	11525.5	13328.9
655.1	55°	651.2	597.3	601.1	674.3	913.3	5481.5	12858.8	15856.8
605.0	57.5°	597.3	547.2	547.2	608.8	861.2	4751.2	13883.8	18993.4
543.3	60°	537.6	504.8	495.2	556.8	907.5	3352.5	14003.3	21016.5
464.3	62.5°	472.0	454.7	441.2	506.7	942.2	1986.4	13041.9	20527.1
366.1	65°	396.9	393.0	383.4	556.8	793.8	1173.4	11196.1	19026.2
312.1	67.5°	333.3	327.5	327.5	583.8	603.1	737.9	8747.2	16960.8
265.9	70°	287.1	265.9	265.9	441.2	366.1	510.6	6107.6	14731.6
219.6	72.5°	240.8	217.7	202.3	352.6	273.6	373.8	3816.8	12616.1
167.6	75°	192.7	175.3	156.1	233.1	204.2	283.2	2217.6	10452.4
106.0	77.5°	138.7	131.0	109.8	171.5	148.4	204.2	1319.8	8065.2
65.5	80°	71.3	73.2	69.4	98.3	100.2	138.7	751.4	5520.0
42.4	82.5°	42.4	32.8	36.6	48.2	57.8	79.0	283.2	3244.6
30.8	85°	27.0	17.3	17.3	23.1	28.9	30.8	86.7	1315.9
15.4	87.5°	13.5	5.8	7.7	11.6	9.6	7.7	3.9	331.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)