

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: P951013

Luminaire Tested: **GALN-SB5B-750-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951013
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-SB5B-750-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 5000K, 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: 22967 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

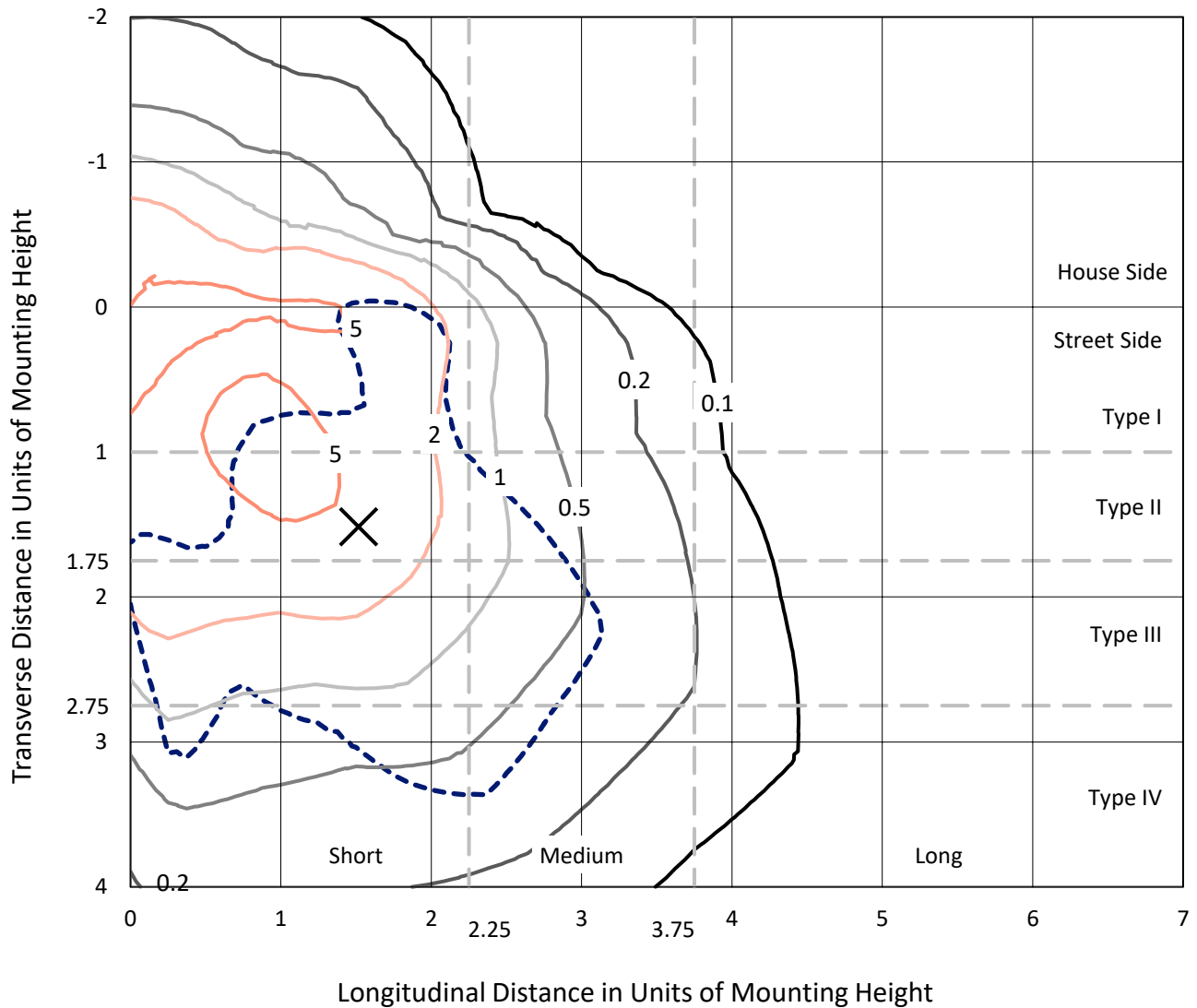
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

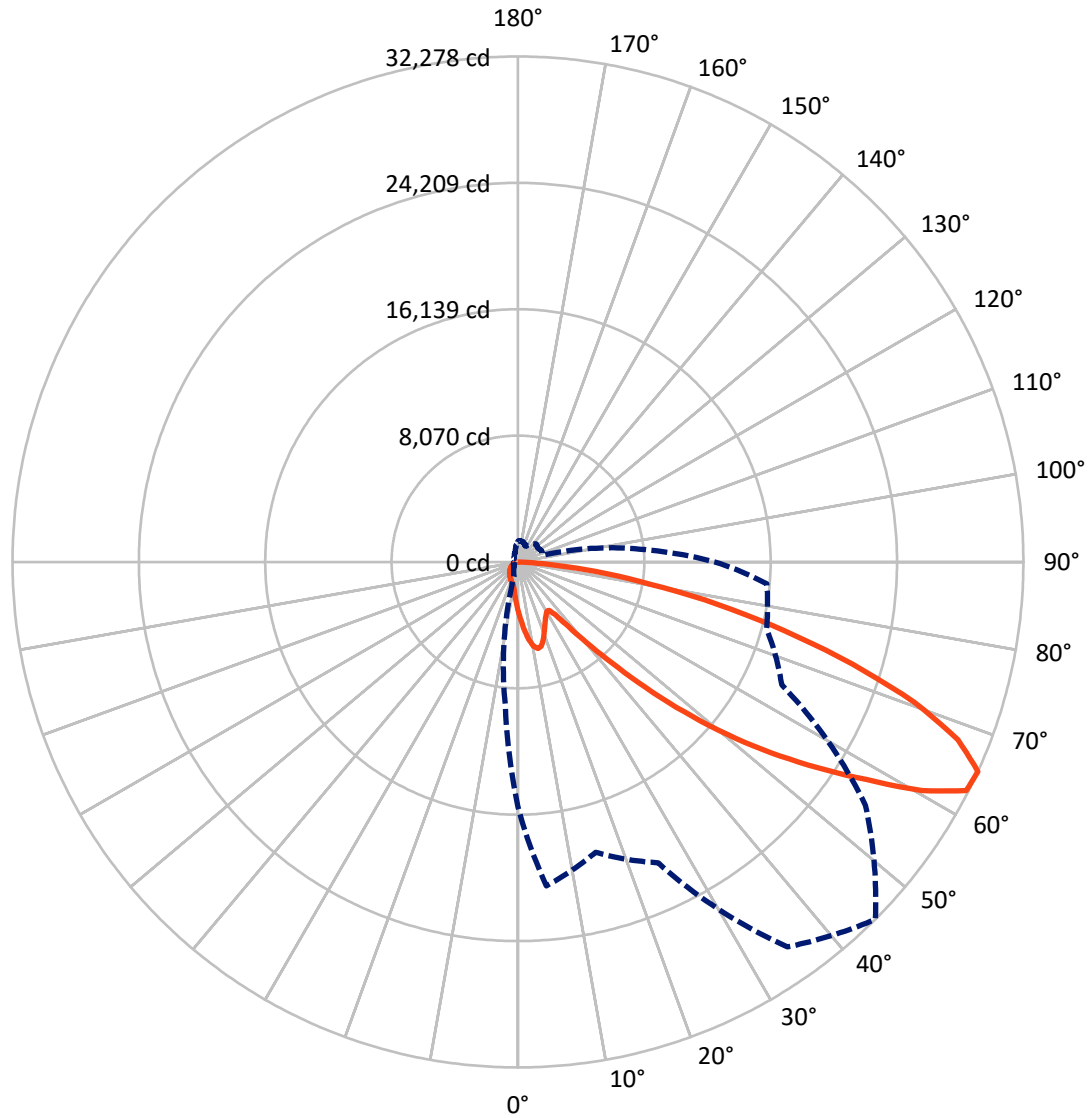
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	4565.1	0.0	4565.1
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	18401.9	0.0	18401.9
	% Fixture	80.1	0.0	80.1
Total	Lumens	22967.0	0.0	22967.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.1	1.4
10°-20°	938.6	4.1
20°-30°	1382.7	6.0
30°-40°	1776.4	7.7
40°-50°	2873.0	12.5
50°-60°	5038.1	21.9
60°-70°	6304.0	27.4
70°-80°	3683.8	16.0
80°-90°	657.2	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°	22967.0	100.0
0°-180°	22967.0	100.0



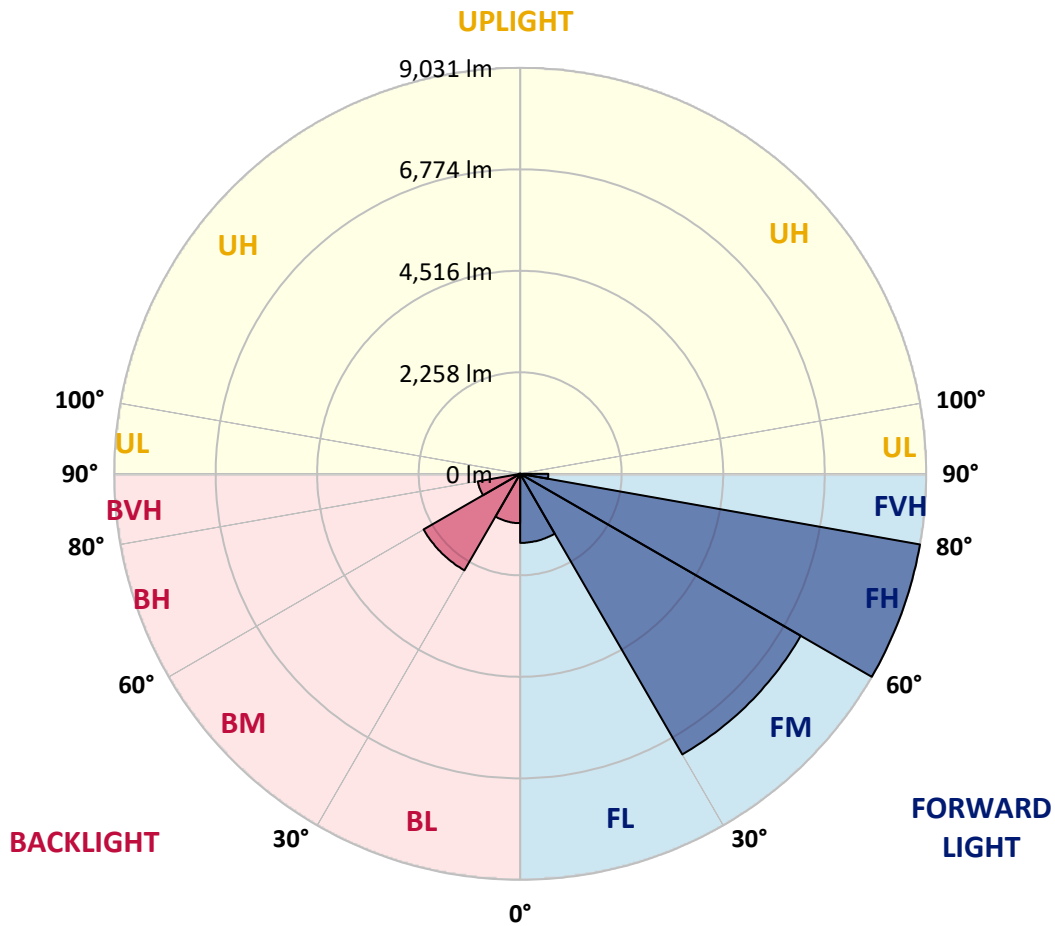
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1536.8	6.7			
FM (30°-60°)	7207.3	31.4			
FH (60°-80°)	9031.3	39.3			G4/12000
FVH (80°-90°)	626.4	2.7			G4/750
BL (0°-30°)	1097.6	4.8	B3/2500		
BM (30°-60°)	2480.2	10.8	B2/2500		
BH (60°-80°)	956.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	30.8	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2
2.5°	3563.1	3590.0	3650.1	3681.7	3730.8	3734.0	3734.0	3691.2	3689.7	3602.6
5°	3982.4	4045.7	4188.0	4335.2	4366.8	4374.7	4358.9	4273.5	4210.2	4040.9
7.5°	4398.5	4520.3	4737.1	4933.3	4996.5	4996.5	4958.6	4819.3	4689.6	4444.4
10°	4743.4	4896.9	5191.2	5411.1	5483.9	5468.0	5390.5	5214.9	5036.1	4738.6
12.5°	4971.2	5143.7	5466.5	5643.7	5718.0	5676.9	5588.3	5417.4	5229.1	4915.9
15°	5085.1	5265.5	5545.6	5638.9	5618.3	5575.6	5564.5	5482.3	5339.9	5047.2
17.5°	5134.2	5301.9	5496.5	5438.0	5263.9	5230.7	5341.5	5445.9	5411.1	5161.1
20°	5180.1	5320.9	5379.4	5120.0	4816.2	4786.1	4998.1	5295.6	5447.5	5267.1
22.5°	5243.4	5330.4	5210.1	4784.5	4457.0	4387.4	4621.6	5069.3	5458.5	5401.6
25°	5330.4	5354.1	5023.4	4466.5	4137.4	4067.8	4286.1	4817.8	5439.6	5547.1
27.5°	5434.8	5385.8	4844.7	4200.7	3882.7	3817.8	4036.2	4575.7	5385.8	5692.7
30°	5570.9	5426.9	4667.4	3995.0	3700.7	3653.3	3863.7	4366.8	5319.3	5877.8
32.5°	5708.5	5444.3	4502.9	3874.8	3659.6	3677.0	3849.5	4254.5	5246.5	6055.0
35°	5857.3	5499.7	4422.2	3993.4	4002.9	4154.8	4226.0	4358.9	5235.5	6295.5
37.5°	6059.8	5623.1	4518.7	4583.6	4912.7	5227.5	5169.0	4870.0	5363.6	6654.7
40°	6350.9	5839.8	4939.6	5588.3	6263.9	6774.9	6551.8	5798.7	5756.0	7172.1
42.5°	6774.9	6184.8	5686.4	6816.1	7961.6	8803.3	8205.2	6996.4	6442.7	7910.9
45°	7401.5	6743.3	6589.8	8111.9	10054.8	11380.7	10137.1	8273.3	7404.6	9029.5
47.5°	8270.1	7564.4	7436.3	9477.3	12599.0	14314.0	12279.3	9456.7	8499.5	10554.8
50°	9423.5	8670.4	8238.4	10970.9	15388.3	17304.4	14420.0	10599.1	9754.2	12418.6
52.5°	10945.6	10213.0	9173.5	12393.3	18256.8	20231.4	16570.2	11602.2	11311.1	14581.4
55°	13021.4	12534.1	10451.9	13750.8	21123.8	23175.9	18636.6	12548.3	13367.9	17150.9
57.5°	15597.2	15945.3	12295.2	15325.1	23701.2	26210.5	20712.4	13871.0	16038.6	20024.2
60°	17258.5	20481.4	15825.0	17652.5	26629.8	29642.3	23557.2	16386.7	18845.4	21054.2
62.5°	16856.6	21924.4	20052.6	20623.8	29322.7	32137.4	26345.0	18913.5	19373.9	19536.8
65°	15624.1	20759.9	19190.3	21201.3	30004.6	32278.2	27090.2	18587.5	16434.2	15950.0
67.5°	13928.0	19378.6	17141.4	19669.7	28772.1	30309.9	25702.6	16442.1	12700.2	11969.2
70°	12097.4	17850.2	15796.5	17951.5	26422.5	26879.8	23343.6	14461.2	9341.2	8083.4
72.5°	10360.2	16258.5	14875.7	16190.5	23288.2	22342.1	20272.6	12709.7	6801.8	5830.4
75°	8583.4	13910.6	13564.1	14098.9	19166.6	17598.7	16844.0	10523.1	5338.3	4218.1
77.5°	6623.0	10869.6	11667.0	11290.5	13491.3	13072.0	13056.2	7907.8	3900.1	2814.7
80°	4533.0	7575.5	9115.0	7964.7	8755.8	8542.2	9833.3	5305.1	2828.9	1694.5
82.5°	2664.4	4612.1	6344.6	3855.8	4841.5	4969.6	5855.7	2580.5	1664.5	390.8
85°	1080.6	1821.1	2480.9	1509.4	2335.3	1969.8	2223.0	724.6	463.6	9.5
87.5°	272.1	582.2	408.2	169.3	270.6	248.4	196.2	88.6	19.0	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
3180.2	0°	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2
3593.1	2.5°	3531.4	3495.0	3404.9	3314.7	3241.9	3143.8	3078.9	3001.4	2927.0	2860.6
4004.5	5°	3904.8	3784.6	3620.0	3469.7	3316.3	3167.5	3020.4	2865.3	2722.9	2635.9
4352.6	7.5°	4208.6	3996.6	3778.3	3586.8	3401.7	3227.7	3033.1	2844.8	2621.7	2503.0
4618.4	10°	4434.9	4156.4	3870.0	3650.1	3463.4	3294.1	3129.6	2939.7	2670.7	2522.0
4779.8	12.5°	4583.6	4252.9	3917.5	3665.9	3457.1	3325.8	3253.0	3178.6	2911.2	2737.2
4898.4	15°	4686.4	4321.0	3950.7	3629.5	3373.2	3276.7	3349.5	3434.9	3264.1	3063.1
5021.9	17.5°	4798.8	4409.6	3965.0	3531.4	3210.3	3169.1	3357.4	3555.2	3547.3	3347.9
5138.9	20°	4917.4	4487.1	3955.5	3373.2	3012.5	3048.9	3289.4	3518.8	3615.3	3507.7
5273.4	22.5°	5039.3	4561.4	3919.1	3167.5	2827.4	2941.3	3181.8	3382.7	3496.6	3463.4
5438.0	25°	5192.7	4665.9	3865.3	2946.0	2673.9	2832.1	3056.8	3219.7	3298.9	3297.3
5615.2	27.5°	5376.3	4805.1	3836.8	2767.2	2564.7	2708.7	2908.1	3053.6	3109.0	3109.0
5835.1	30°	5589.9	4969.6	3805.2	2650.2	2501.4	2580.5	2735.6	2878.0	2933.4	2933.4
6075.6	32.5°	5827.2	5127.9	3729.2	2579.0	2454.0	2455.6	2553.6	2683.4	2749.8	2759.3
6376.2	35°	6112.0	5297.2	3563.1	2522.0	2398.6	2333.7	2381.2	2488.8	2567.9	2588.5
6805.0	37.5°	6485.4	5504.4	3325.8	2438.1	2313.2	2205.6	2216.6	2298.9	2385.9	2417.6
7396.7	40°	6986.9	5748.1	3078.9	2317.9	2192.9	2064.8	2060.0	2120.1	2205.6	2240.4
8197.3	42.5°	7649.9	6040.8	2843.2	2202.4	2047.3	1916.0	1908.1	1955.6	2029.9	2066.3
9254.2	45°	8497.9	6399.9	2640.7	2112.2	1905.0	1775.2	1772.0	1811.6	1876.5	1914.4
10607.0	47.5°	9676.7	6759.1	2503.0	2064.8	1792.6	1659.7	1666.0	1700.9	1759.4	1786.3
12358.5	50°	11213.0	6868.3	2433.4	2064.8	1732.5	1556.9	1588.5	1617.0	1661.3	1677.1
14458.0	52.5°	12687.6	6507.5	2370.1	2077.4	1740.4	1469.9	1537.9	1558.5	1596.4	1602.8
16404.1	55°	13410.6	5594.6	2283.1	2080.6	1789.5	1395.5	1496.7	1534.7	1549.0	1547.4
17533.8	57.5°	13162.2	4523.5	2136.0	2067.9	1822.7	1348.0	1446.1	1518.9	1528.4	1514.2
17318.6	60°	12290.4	3330.5	2023.6	1974.6	1810.0	1333.8	1368.6	1484.1	1498.3	1479.3
15660.5	62.5°	10828.5	2311.6	1936.6	1768.9	1754.6	1329.0	1246.8	1408.1	1443.0	1416.1
12587.9	65°	8524.8	1632.8	1667.6	1550.5	1634.4	1303.7	1120.2	1316.4	1363.8	1322.7
9132.4	67.5°	5768.7	1178.7	1351.2	1405.0	1439.8	1246.8	1028.4	1212.0	1275.2	1221.4
5860.4	70°	3115.3	827.5	892.4	1183.5	1223.0	1148.7	946.1	1105.9	1178.7	1120.2
4165.9	72.5°	1840.1	594.9	625.0	950.9	1018.9	1011.0	854.4	982.5	1071.1	1001.5
2874.8	75°	1014.2	401.9	446.2	689.8	827.5	780.0	734.1	832.2	922.4	854.4
1802.1	77.5°	454.1	240.5	310.1	452.5	650.3	534.8	568.0	648.7	732.6	661.4
1003.1	80°	175.6	134.5	205.7	246.8	473.1	295.9	365.5	477.8	537.9	481.0
218.3	82.5°	22.2	60.1	88.6	96.5	275.3	156.6	212.0	300.6	295.9	256.3
0.0	85°	0.0	11.1	12.7	6.3	118.7	57.0	69.6	98.1	91.8	69.6
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°
3180.2	0°	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2
2847.9	2.5°	2770.4	2713.4	2685.0	2661.2	2683.4	2696.0	2696.0	2749.8	2781.5	2794.1
2580.5	5°	2441.3	2335.3	2264.1	2221.4	2235.6	2251.5	2268.9	2336.9	2382.8	2412.8
2395.4	7.5°	2181.8	2020.5	1920.8	1868.6	1876.5	1887.5	1901.8	1968.2	2014.1	2053.7
2360.6	10°	2053.7	1825.8	1694.5	1631.2	1620.2	1613.8	1609.1	1648.6	1683.4	1715.1
2503.0	12.5°	2060.0	1742.0	1582.2	1504.7	1471.4	1433.5	1403.4	1409.7	1431.9	1471.4
2757.8	15°	2140.7	1715.1	1523.6	1427.1	1371.8	1327.5	1291.1	1283.2	1291.1	1297.4
3048.9	17.5°	2249.9	1711.9	1473.0	1352.8	1295.8	1259.4	1226.2	1215.1	1216.7	1224.6
3241.9	20°	2336.9	1702.4	1416.1	1281.6	1230.9	1199.3	1166.1	1155.0	1158.2	1159.7
3260.9	22.5°	2382.8	1688.2	1352.8	1210.4	1167.7	1136.0	1105.9	1104.4	1104.4	1113.9
3158.0	25°	2382.8	1658.1	1295.8	1142.3	1104.4	1075.9	1039.5	1045.8	1049.0	1061.6
2998.2	27.5°	2325.8	1601.2	1249.9	1083.8	1044.2	1015.8	982.5	990.4	995.2	1009.4
2840.0	30°	2253.0	1533.1	1197.7	1028.4	982.5	962.0	933.5	936.7	943.0	958.8
2692.9	32.5°	2175.5	1452.4	1155.0	973.0	927.2	911.3	879.7	884.4	890.8	908.2
2547.3	35°	2090.1	1357.5	1104.4	922.4	876.5	863.9	827.5	830.6	840.1	859.1
2390.7	37.5°	1999.9	1280.0	1053.7	873.4	825.9	813.2	775.3	778.4	789.5	811.7
2226.1	40°	1911.3	1204.0	999.9	821.2	773.7	762.6	721.5	724.6	737.3	761.0
2060.0	42.5°	1814.8	1145.5	930.3	767.4	716.7	705.7	667.7	672.4	686.7	710.4
1906.5	45°	1699.3	1107.5	852.8	716.7	659.8	648.7	613.9	623.4	639.2	662.9
1775.2	47.5°	1580.6	1091.7	787.9	662.9	601.2	591.7	563.3	579.1	596.5	615.5
1662.9	50°	1466.7	1071.1	721.5	612.3	550.6	541.1	522.1	542.7	560.1	577.5
1582.2	52.5°	1336.9	1026.8	661.4	568.0	507.9	504.7	495.2	514.2	530.0	545.9
1512.6	55°	1202.5	955.6	609.1	528.5	471.5	474.7	469.9	485.7	498.4	512.6
1449.3	57.5°	1085.4	865.5	568.0	485.7	439.8	449.3	443.0	450.9	458.8	476.2
1373.3	60°	966.7	757.9	522.1	435.1	408.2	419.3	401.9	400.3	403.5	408.2
1261.0	62.5°	806.9	645.5	465.2	390.8	373.4	378.1	344.9	319.6	319.6	324.3
1104.4	65°	648.7	541.1	401.9	340.2	325.9	322.8	275.3	240.5	237.3	251.6
922.4	67.5°	533.2	449.3	338.6	283.2	273.7	276.9	242.1	207.3	204.1	219.9
751.5	70°	441.4	362.3	270.6	218.3	227.8	242.1	207.3	174.0	169.3	183.5
610.7	72.5°	351.2	283.2	207.3	161.4	188.3	205.7	169.3	137.7	134.5	147.1
471.5	75°	257.9	202.5	140.8	117.1	145.6	161.4	123.4	98.1	93.3	104.4
314.9	77.5°	159.8	113.9	88.6	69.6	99.7	107.6	64.9	57.0	55.4	63.3
191.4	80°	74.4	49.0	42.7	23.7	36.4	42.7	26.9	30.1	31.6	38.0
96.5	82.5°	20.6	7.9	1.6	0.0	0.0	12.7	6.3	12.7	15.8	23.7
7.9	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	7.9	14.2
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.3
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°
3180.2	0°	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2	3180.2
2882.7	2.5°	2949.2	3012.5	3113.7	3218.2	3321.0	3425.4	3526.7	3563.1
2550.5	5°	2675.5	2821.0	3022.0	3237.2	3458.7	3683.3	3889.0	3982.4
2207.1	7.5°	2370.1	2579.0	2881.2	3218.2	3571.0	3923.8	4248.2	4398.5
1867.0	10°	2044.2	2308.4	2653.3	3109.0	3615.3	4102.6	4548.8	4743.4
1567.9	12.5°	1734.1	2011.0	2392.3	2938.1	3580.5	4205.5	4741.8	4971.2
1357.5	15°	1474.6	1719.8	2131.2	2735.6	3468.2	4211.8	4833.6	5085.1
1240.4	17.5°	1280.0	1439.8	1865.4	2510.9	3321.0	4153.2	4865.2	5134.2
1177.1	20°	1183.5	1227.8	1520.5	2223.0	3183.4	4097.9	4896.9	5180.1
1126.5	22.5°	1126.5	1137.6	1243.6	1851.2	3018.8	4080.5	4952.2	5243.4
1080.6	25°	1080.6	1083.8	1112.3	1466.7	2767.2	4069.4	5037.7	5330.4
1033.2	27.5°	1034.7	1034.7	1050.6	1181.9	2425.5	4021.9	5148.4	5434.8
985.7	30°	988.9	988.9	999.9	1045.8	2025.2	3928.6	5281.3	5570.9
938.2	32.5°	941.4	941.4	950.9	984.1	1617.0	3811.5	5403.2	5708.5
889.2	35°	893.9	890.8	903.4	938.2	1286.3	3662.8	5525.0	5857.3
840.1	37.5°	843.3	841.7	854.4	893.9	1110.7	3490.3	5616.8	6059.8
791.1	40°	789.5	789.5	803.8	846.5	1060.1	3273.5	5762.3	6350.9
740.5	42.5°	740.5	737.3	753.1	805.3	1022.1	3066.3	6023.4	6774.9
694.6	45°	693.0	686.7	700.9	765.8	955.6	2993.5	6510.7	7401.5
650.3	47.5°	648.7	632.9	645.5	718.3	895.5	3265.6	7308.1	8270.1
610.7	50°	612.3	582.2	593.3	670.8	849.6	3855.8	8342.9	9423.5
574.3	52.5°	574.3	534.8	541.1	612.3	808.5	4417.5	9464.6	10945.6
537.9	55°	534.8	490.5	493.6	553.8	750.0	4501.3	10559.5	13021.4
496.8	57.5°	490.5	449.3	449.3	500.0	707.2	3901.7	11401.2	15597.2
446.2	60°	441.4	414.5	406.6	457.3	745.2	2753.0	11499.3	17258.5
381.3	62.5°	387.6	373.4	362.3	416.1	773.7	1631.2	10709.8	16856.6
300.6	65°	325.9	322.8	314.9	457.3	651.9	963.6	9194.1	15624.1
256.3	67.5°	273.7	269.0	269.0	479.4	495.2	606.0	7183.1	13928.0
218.3	70°	235.7	218.3	218.3	362.3	300.6	419.3	5015.5	12097.4
180.4	72.5°	197.8	178.8	166.1	289.5	224.7	306.9	3134.3	10360.2
137.7	75°	158.2	144.0	128.2	191.4	167.7	232.6	1821.1	8583.4
87.0	77.5°	113.9	107.6	90.2	140.8	121.8	167.7	1083.8	6623.0
53.8	80°	58.5	60.1	57.0	80.7	82.3	113.9	617.1	4533.0
34.8	82.5°	34.8	26.9	30.1	39.6	47.5	64.9	232.6	2664.4
25.3	85°	22.2	14.2	14.2	19.0	23.7	25.3	71.2	1080.6
12.7	87.5°	11.1	4.7	6.3	9.5	7.9	6.3	3.2	272.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)