

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: P950469

Luminaire Tested: **GALN-SB4D-930-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950469
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-930-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21652 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

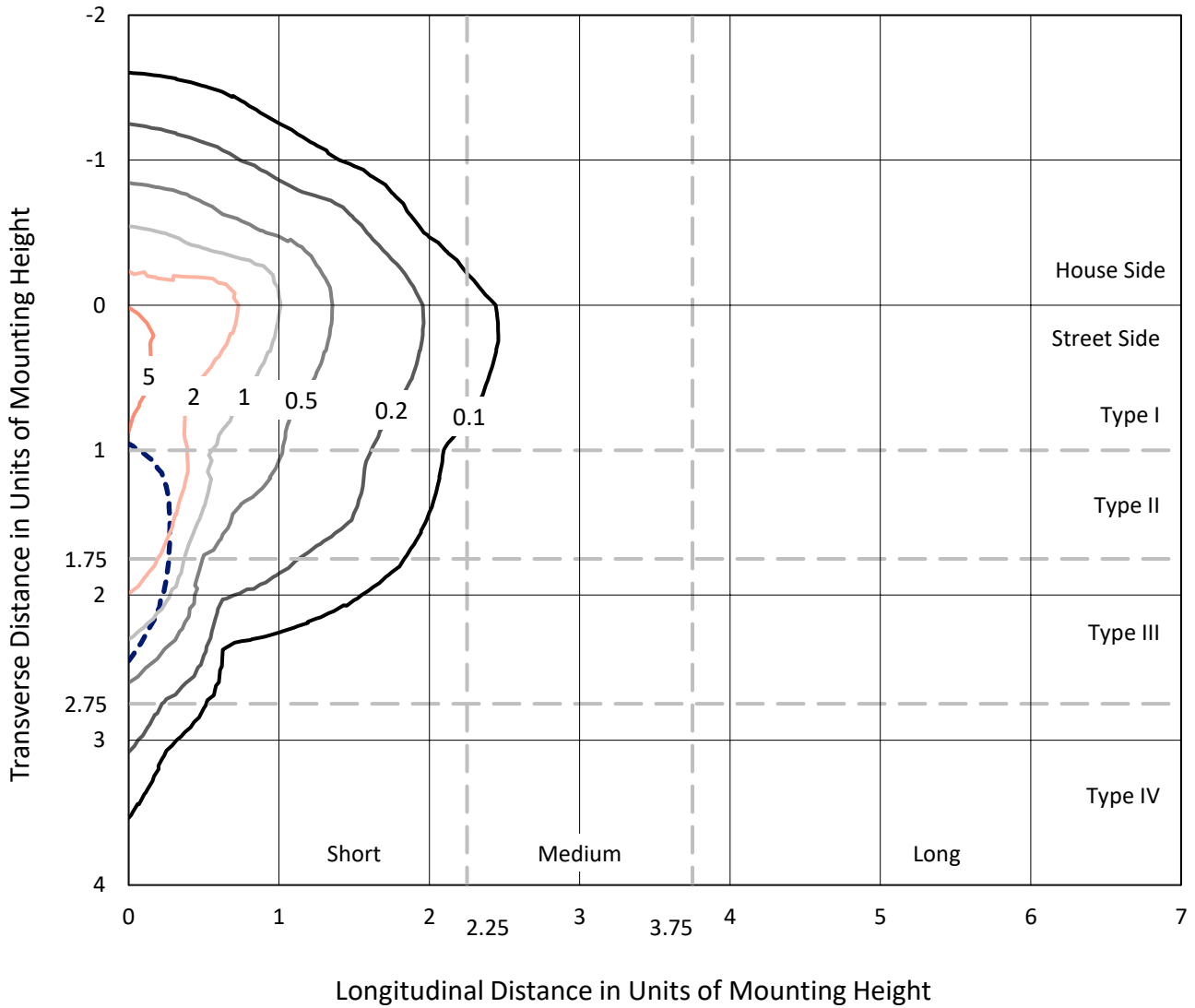
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

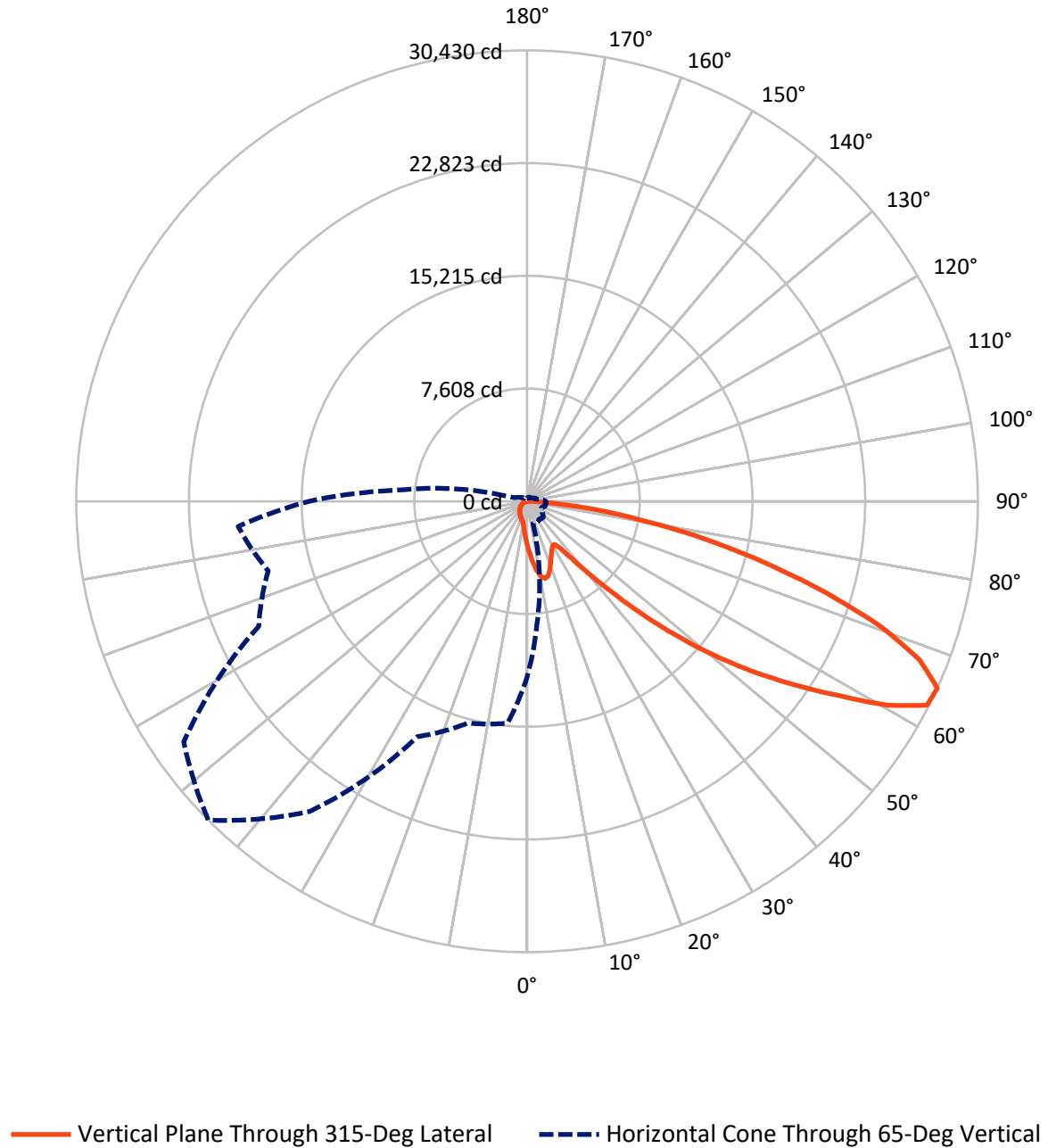
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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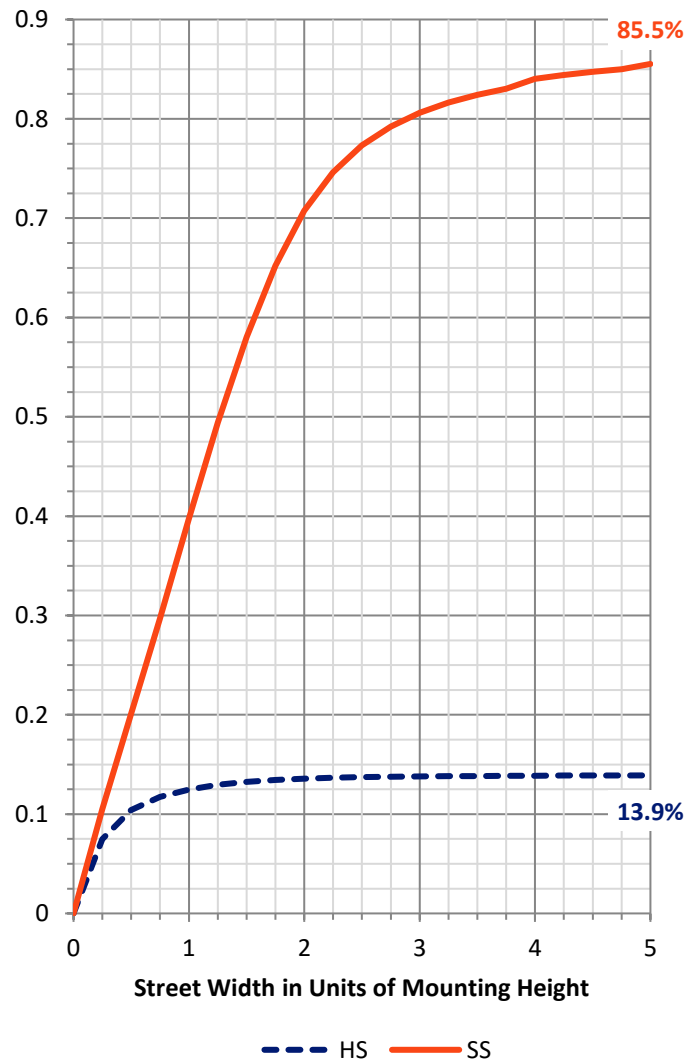
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3032.2	0.0	3032.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	18619.8	0.0	18619.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	21652.0	0.0	21652.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.2	1.4
10°-20°	884.8	4.1
20°-30°	1303.6	6.0
30°-40°	1674.7	7.7
40°-50°	2708.5	12.5
50°-60°	4749.6	21.9
60°-70°	5943.1	27.4
70°-80°	3472.9	16.0
80°-90°	619.6	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°	21652.0	100.0
0°-180°	21652.0	100.0

Coefficient of Utilization



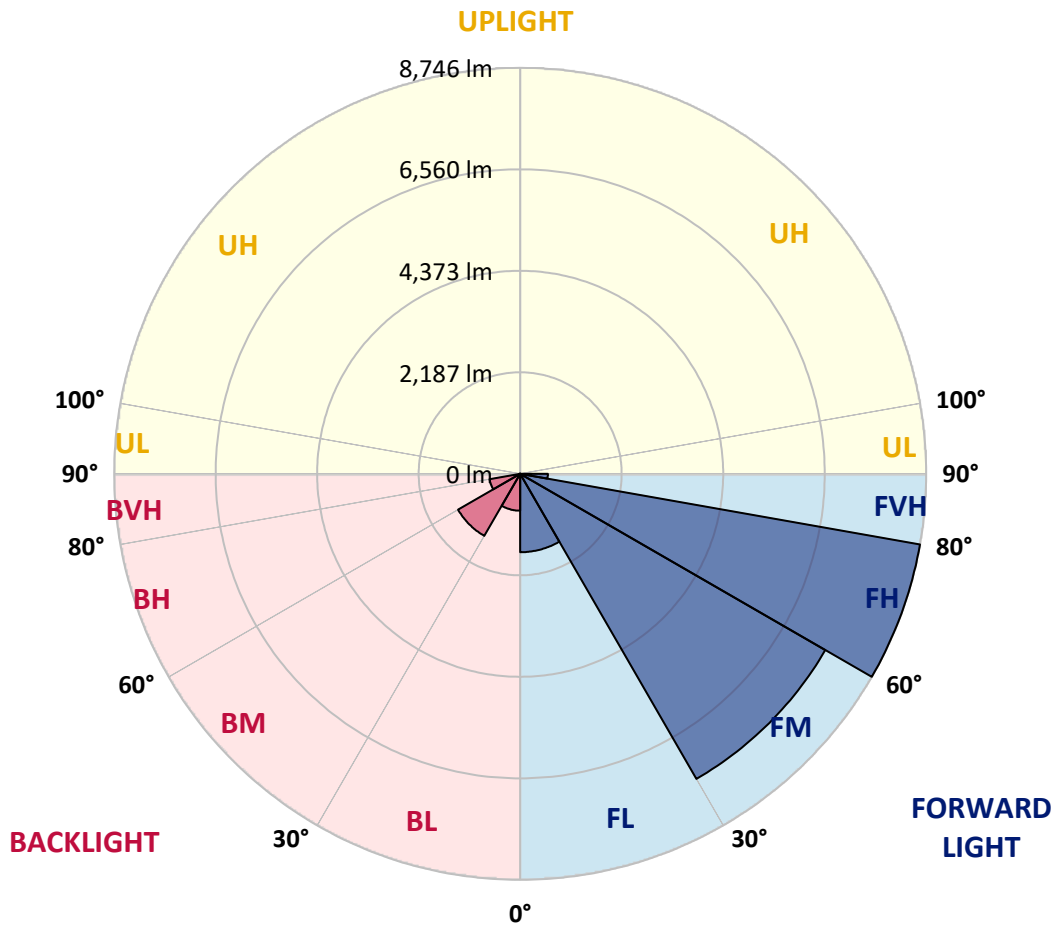
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.8	7.8			
FM (30°-60°)	7588.8	35.0			
FH (60°-80°)	8746.4	40.4			G4/12000
FVH (80°-90°)	595.8	2.8			G4/750
BL (0°-30°)	794.8	3.7	B2/1000		
BM (30°-60°)	1544.1	7.1	B2/2500		
BH (60°-80°)	669.5	3.1	B2/1000		G2/1000
BVH (80°-90°)	23.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1
2.5°	3387.4	3329.2	3294.9	3209.9	3124.9	3056.3	2963.8	2902.6	2829.6	2759.5
5°	3775.2	3681.3	3567.9	3412.8	3271.1	3126.4	2986.2	2847.5	2701.3	2567.0
7.5°	4103.4	3967.6	3767.8	3561.9	3381.4	3206.9	3042.9	2859.4	2681.9	2471.6
10°	4354.0	4180.9	3918.4	3648.4	3441.1	3265.1	3105.5	2950.4	2771.4	2517.8
12.5°	4506.1	4321.2	4009.4	3693.2	3456.0	3259.1	3135.3	3066.7	2996.6	2744.5
15°	4618.0	4418.1	4073.6	3724.5	3421.7	3180.1	3089.1	3157.7	3238.3	3077.2
17.5°	4734.3	4524.0	4157.1	3737.9	3329.2	3026.4	2987.7	3165.2	3351.6	3344.2
20°	4844.7	4635.9	4230.2	3729.0	3180.1	2840.0	2874.3	3101.0	3317.3	3408.3
22.5°	4971.5	4750.7	4300.3	3694.7	2986.2	2665.5	2772.9	2999.6	3189.0	3296.4
25°	5126.6	4895.4	4398.7	3644.0	2777.4	2520.8	2670.0	2881.8	3035.4	3110.0
27.5°	5293.7	5068.4	4530.0	3617.1	2608.8	2417.9	2553.6	2741.6	2878.8	2931.0
30°	5501.0	5269.8	4685.1	3587.3	2498.4	2358.2	2432.8	2579.0	2713.2	2765.4
32.5°	5727.7	5493.6	4834.3	3515.7	2431.3	2313.5	2315.0	2407.4	2529.7	2592.4
35°	6011.1	5762.0	4993.9	3359.1	2377.6	2261.3	2200.1	2244.9	2346.3	2420.9
37.5°	6415.4	6114.1	5189.3	3135.3	2298.6	2180.7	2079.3	2089.7	2167.3	2249.3
40°	6973.2	6586.9	5419.0	2902.6	2185.2	2067.4	1946.5	1942.1	1998.7	2079.3
42.5°	7728.0	7211.9	5694.9	2680.4	2076.3	1930.1	1806.3	1798.9	1843.6	1913.7
45°	8724.3	8011.4	6033.5	2489.5	1991.3	1795.9	1673.6	1670.6	1707.9	1769.0
47.5°	9999.7	9122.6	6372.1	2359.7	1946.5	1690.0	1564.7	1570.7	1603.5	1658.7
50°	11650.9	10570.9	6475.0	2294.1	1946.5	1633.3	1467.7	1497.6	1524.4	1566.2
52.5°	13630.2	11961.1	6134.9	2234.4	1958.5	1640.8	1385.7	1449.8	1469.2	1505.0
55°	15464.9	12642.8	5274.3	2152.4	1961.4	1687.0	1315.6	1411.1	1446.8	1460.3
57.5°	16529.9	12408.6	4264.5	2013.7	1949.5	1718.3	1270.8	1363.3	1431.9	1440.9
60°	16327.0	11586.7	3139.8	1907.8	1861.5	1706.4	1257.4	1290.2	1399.1	1412.5
62.5°	14763.8	10208.5	2179.2	1825.7	1667.6	1654.2	1252.9	1175.4	1327.5	1360.3
65°	11867.1	8036.7	1539.3	1572.1	1461.8	1540.8	1229.1	1056.1	1241.0	1285.8
67.5°	8609.5	5438.4	1111.2	1273.8	1324.5	1357.4	1175.4	969.5	1142.6	1202.2
70°	5524.9	2937.0	780.1	841.3	1115.7	1153.0	1082.9	892.0	1042.6	1111.2
72.5°	3927.4	1734.7	560.8	589.2	896.4	960.6	953.1	805.5	926.3	1009.8
75°	2710.2	956.1	378.9	420.6	650.3	780.1	735.4	692.1	784.6	869.6
77.5°	1698.9	428.1	226.7	292.4	426.6	613.0	504.2	535.5	611.6	690.6
80°	945.7	165.6	126.8	193.9	232.7	446.0	278.9	344.6	450.5	507.1
82.5°	205.8	20.9	56.7	83.5	91.0	259.5	147.7	199.9	283.4	278.9
85°	0.0	0.0	10.4	11.9	6.0	111.9	53.7	65.6	92.5	86.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0
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°
2998.1	0°	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1
2696.8	2.5°	2684.9	2611.8	2558.1	2531.2	2508.9	2529.7	2541.7	2541.7	2592.4	2622.2
2485.0	5°	2432.8	2301.5	2201.6	2134.5	2094.2	2107.6	2122.5	2138.9	2203.1	2246.3
2359.7	7.5°	2258.3	2056.9	1904.8	1810.8	1761.6	1769.0	1779.5	1792.9	1855.5	1898.8
2377.6	10°	2225.5	1936.1	1721.3	1597.5	1537.8	1527.4	1521.4	1517.0	1554.2	1587.1
2580.5	12.5°	2359.7	1942.1	1642.2	1491.6	1418.5	1387.2	1351.4	1323.0	1329.0	1349.9
2887.7	15°	2599.9	2018.1	1616.9	1436.4	1345.4	1293.2	1251.4	1217.1	1209.7	1217.1
3156.2	17.5°	2874.3	2121.1	1613.9	1388.7	1275.3	1221.6	1187.3	1156.0	1145.5	1147.0
3306.9	20°	3056.3	2203.1	1605.0	1335.0	1208.2	1160.5	1130.6	1099.3	1088.9	1091.8
3265.1	22.5°	3074.2	2246.3	1591.5	1275.3	1141.1	1100.8	1071.0	1042.6	1041.1	1041.1
3108.5	25°	2977.2	2246.3	1563.2	1221.6	1076.9	1041.1	1014.3	980.0	985.9	988.9
2931.0	27.5°	2826.6	2192.6	1509.5	1178.4	1021.7	984.5	957.6	926.3	933.7	938.2
2765.4	30°	2677.4	2124.0	1445.4	1129.1	969.5	926.3	906.9	880.0	883.0	889.0
2601.3	32.5°	2538.7	2050.9	1369.3	1088.9	917.3	874.1	859.2	829.3	833.8	839.8
2440.3	35°	2401.5	1970.4	1279.8	1041.1	869.6	826.3	814.4	780.1	783.1	792.0
2279.2	37.5°	2253.8	1885.4	1206.7	993.4	823.4	778.6	766.7	730.9	733.9	744.3
2112.1	40°	2098.7	1801.8	1135.1	942.7	774.1	729.4	718.9	680.2	683.2	695.1
1948.0	42.5°	1942.1	1710.9	1079.9	877.1	723.4	675.7	665.3	629.5	633.9	647.4
1804.8	45°	1797.4	1602.0	1044.1	804.0	675.7	622.0	611.6	578.7	587.7	602.6
1684.0	47.5°	1673.6	1490.1	1029.2	742.8	625.0	566.8	557.9	531.0	545.9	562.3
1581.1	50°	1567.7	1382.7	1009.8	680.2	577.2	519.1	510.1	492.2	511.6	528.0
1511.0	52.5°	1491.6	1260.4	968.0	623.5	535.5	478.8	475.8	466.9	484.8	499.7
1458.8	55°	1426.0	1133.6	900.9	574.3	498.2	444.5	447.5	443.0	457.9	469.9
1427.5	57.5°	1366.3	1023.2	815.9	535.5	457.9	414.7	423.6	417.6	425.1	432.6
1394.6	60°	1294.7	911.4	714.5	492.2	410.2	384.8	395.3	378.9	377.4	380.4
1335.0	62.5°	1188.8	760.7	608.6	438.5	368.4	352.0	356.5	325.2	301.3	301.3
1247.0	65°	1041.1	611.6	510.1	378.9	320.7	307.3	304.3	259.5	226.7	223.7
1151.5	67.5°	869.6	502.7	423.6	319.2	267.0	258.0	261.0	228.2	195.4	192.4
1056.1	70°	708.5	416.2	341.6	255.1	205.8	214.8	228.2	195.4	164.1	159.6
944.2	72.5°	575.8	331.1	267.0	195.4	152.1	177.5	193.9	159.6	129.8	126.8
805.5	75°	444.5	243.1	190.9	132.8	110.4	137.2	152.1	116.3	92.5	88.0
623.5	77.5°	296.8	150.7	107.4	83.5	65.6	94.0	101.4	61.2	53.7	52.2
453.4	80°	180.5	70.1	46.2	40.3	22.4	34.3	40.3	25.4	28.3	29.8
241.6	82.5°	91.0	19.4	7.5	1.5	0.0	0.0	11.9	6.0	11.9	14.9
65.6	85°	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	7.5
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°
2998.1	0°	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1
2634.2	2.5°	2717.7	2780.3	2840.0	2935.5	3033.9	3130.9	3229.3	3324.8	3359.1	3384.4
2274.7	5°	2404.5	2522.3	2659.5	2848.9	3051.8	3260.6	3472.4	3666.3	3754.3	3814.0
1936.1	7.5°	2080.8	2234.4	2431.3	2716.2	3033.9	3366.5	3699.2	4004.9	4146.6	4261.5
1616.9	10°	1760.1	1927.1	2176.2	2501.4	2931.0	3408.3	3867.7	4288.3	4471.8	4616.5
1387.2	12.5°	1478.2	1634.8	1895.8	2255.3	2769.9	3375.5	3964.7	4470.3	4686.6	4849.2
1223.1	15°	1279.8	1390.2	1621.4	2009.2	2579.0	3269.6	3970.6	4556.8	4794.0	4964.0
1154.5	17.5°	1169.4	1206.7	1357.4	1758.6	2367.2	3130.9	3915.4	4586.7	4840.2	4998.3
1093.3	20°	1109.7	1115.7	1157.5	1433.4	2095.7	3001.1	3863.2	4616.5	4883.5	5016.2
1050.1	22.5°	1062.0	1062.0	1072.5	1172.4	1745.2	2846.0	3846.8	4668.7	4943.2	5025.2
1000.9	25°	1018.8	1018.8	1021.7	1048.6	1382.7	2608.8	3836.4	4749.2	5025.2	5047.6
951.6	27.5°	974.0	975.5	975.5	990.4	1114.2	2286.6	3791.6	4853.7	5123.6	5077.4
903.9	30°	929.3	932.2	932.2	942.7	985.9	1909.2	3703.6	4978.9	5251.9	5116.2
856.2	32.5°	884.5	887.5	887.5	896.4	927.8	1524.4	3593.3	5093.8	5381.7	5132.6
809.9	35°	838.3	842.8	839.8	851.7	884.5	1212.7	3453.0	5208.7	5521.9	5184.8
765.2	37.5°	792.0	795.0	793.5	805.5	842.8	1047.1	3290.5	5295.2	5712.8	5301.1
717.5	40°	745.8	744.3	744.3	757.7	798.0	999.4	3086.1	5432.4	5987.3	5505.5
669.7	42.5°	698.1	698.1	695.1	710.0	759.2	963.6	2890.7	5678.5	6387.0	5830.7
625.0	45°	654.8	653.3	647.4	660.8	721.9	900.9	2822.1	6137.9	6977.7	6357.2
580.2	47.5°	613.0	611.6	596.6	608.6	677.2	844.2	3078.7	6889.7	7796.6	7131.3
544.4	50°	575.8	577.2	548.9	559.3	632.4	801.0	3635.0	7865.2	8883.9	8173.9
514.6	52.5°	541.4	541.4	504.2	510.1	577.2	762.2	4164.5	8922.7	10318.9	9628.3
483.3	55°	507.1	504.2	462.4	465.4	522.1	707.0	4243.6	9954.9	12275.8	11816.4
449.0	57.5°	468.4	462.4	423.6	423.6	471.3	666.7	3678.3	10748.4	14704.2	15032.3
384.8	60°	420.6	416.2	390.8	383.3	431.1	702.5	2595.4	10840.9	16270.3	19308.7
305.8	62.5°	359.5	365.4	352.0	341.6	392.3	729.4	1537.8	10096.6	15891.5	20669.1
237.2	65°	283.4	307.3	304.3	296.8	431.1	614.5	908.4	8667.7	14729.5	19571.2
207.3	67.5°	241.6	258.0	253.6	253.6	452.0	466.9	571.3	6771.8	13130.5	18269.1
173.0	70°	205.8	222.2	205.8	205.8	341.6	283.4	395.3	4728.4	11404.7	16828.2
138.7	72.5°	170.0	186.4	168.6	156.6	273.0	211.8	289.4	2954.9	9767.0	15327.6
98.4	75°	129.8	149.2	135.7	120.8	180.5	158.1	219.3	1716.8	8091.9	13114.1
59.7	77.5°	82.0	107.4	101.4	85.0	132.8	114.9	158.1	1021.7	6243.8	10247.3
35.8	80°	50.7	55.2	56.7	53.7	76.1	77.6	107.4	581.7	4273.4	7141.8
22.4	82.5°	32.8	32.8	25.4	28.3	37.3	44.7	61.2	219.3	2511.8	4348.0
13.4	85°	23.9	20.9	13.4	13.4	17.9	22.4	23.9	67.1	1018.8	1716.8
6.0	87.5°	11.9	10.4	4.5	6.0	8.9	7.5	6.0	3.0	256.6	548.9
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):

285°		295°	305°	315°	325°	335°	345°	355°	360°
2998.1	0°	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1	2998.1
3441.1	2.5°	3470.9	3517.2	3520.2	3520.2	3479.9	3478.4	3396.4	3387.4
3948.3	5°	4087.0	4116.8	4124.3	4109.3	4028.8	3969.1	3809.5	3775.2
4465.8	7.5°	4650.8	4710.5	4710.5	4674.7	4543.4	4421.1	4189.9	4103.4
4893.9	10°	5101.3	5169.9	5155.0	5081.9	4916.3	4747.8	4467.3	4354.0
5153.5	12.5°	5320.5	5390.6	5351.8	5268.3	5107.2	4929.7	4634.4	4506.1
5228.0	15°	5316.1	5296.7	5256.4	5245.9	5168.4	5034.1	4758.2	4618.0
5181.8	17.5°	5126.6	4962.5	4931.2	5035.6	5134.1	5101.3	4865.6	4734.3
5071.4	20°	4826.8	4540.4	4512.1	4712.0	4992.4	5135.6	4965.5	4844.7
4911.8	22.5°	4510.6	4201.8	4136.2	4357.0	4779.1	5146.0	5092.3	4971.5
4735.8	25°	4210.8	3900.5	3834.9	4040.7	4541.9	5128.1	5229.5	5126.6
4567.3	27.5°	3960.2	3660.4	3599.2	3805.1	4313.7	5077.4	5366.8	5293.7
4400.2	30°	3766.3	3488.8	3444.1	3642.5	4116.8	5014.7	5541.3	5501.0
4245.1	32.5°	3652.9	3450.1	3466.5	3629.1	4010.9	4946.1	5708.3	5727.7
4169.0	35°	3764.8	3773.7	3916.9	3984.1	4109.3	4935.7	5935.1	6011.1
4260.0	37.5°	4321.2	4631.4	4928.2	4873.0	4591.1	5056.5	6273.7	6415.4
4656.8	40°	5268.3	5905.2	6387.0	6176.7	5466.7	5426.4	6761.4	6973.2
5360.8	42.5°	6425.8	7505.7	8299.2	7735.4	6595.8	6073.8	7458.0	7728.0
6212.5	45°	7647.4	9479.1	10729.1	9556.7	7799.6	6980.7	8512.5	8724.3
7010.5	47.5°	8934.7	11877.6	13494.5	11576.3	8915.3	8012.9	9950.4	9999.7
7766.7	50°	10342.7	14507.3	16313.6	13594.4	9992.2	9195.7	11707.5	11650.9
8648.3	52.5°	11683.7	17211.5	19073.0	15621.5	10937.9	10663.4	13746.6	13630.2
9853.5	55°	12963.5	19914.3	21848.9	17569.5	11829.9	12602.5	16168.9	15464.9
11591.2	57.5°	14447.6	22344.1	24709.8	19526.5	13076.8	15120.3	18877.6	16529.9
14918.9	60°	16641.7	25105.1	27945.1	22208.4	15448.5	17766.4	19848.7	16327.0
18904.5	62.5°	19443.0	27643.8	30297.3	24836.6	17830.5	18264.6	18418.2	14763.8
18091.6	65°	19987.4	28286.6	30430.1	25539.1	17523.3	15493.2	15036.8	11867.1
16160.0	67.5°	18543.5	27124.7	28574.5	24231.0	15500.7	11973.0	11283.9	8609.5
14892.1	70°	16923.7	24909.7	25340.7	22007.0	13633.2	8806.4	7620.6	5524.9
14024.0	72.5°	15263.5	21954.8	21062.8	19111.8	11982.0	6412.4	5496.5	3927.4
12787.5	75°	13291.6	18069.2	16591.0	15879.5	9920.6	5032.6	3976.6	2710.2
10999.0	77.5°	10644.0	12718.8	12323.6	12308.7	7455.0	3676.8	2653.6	1698.9
8593.1	80°	7508.7	8254.5	8053.1	9270.3	5001.3	2667.0	1597.5	945.7
5981.3	82.5°	3635.0	4564.3	4685.1	5520.4	2432.8	1569.2	368.4	205.8
2338.8	85°	1423.0	2201.6	1857.0	2095.7	683.2	437.0	8.9	0.0
384.8	87.5°	159.6	255.1	234.2	185.0	83.5	17.9	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)