

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: P950152

Luminaire Tested: **GALN-SB4C-940-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950152
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-SB4C-940-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 615mA 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: 16599 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

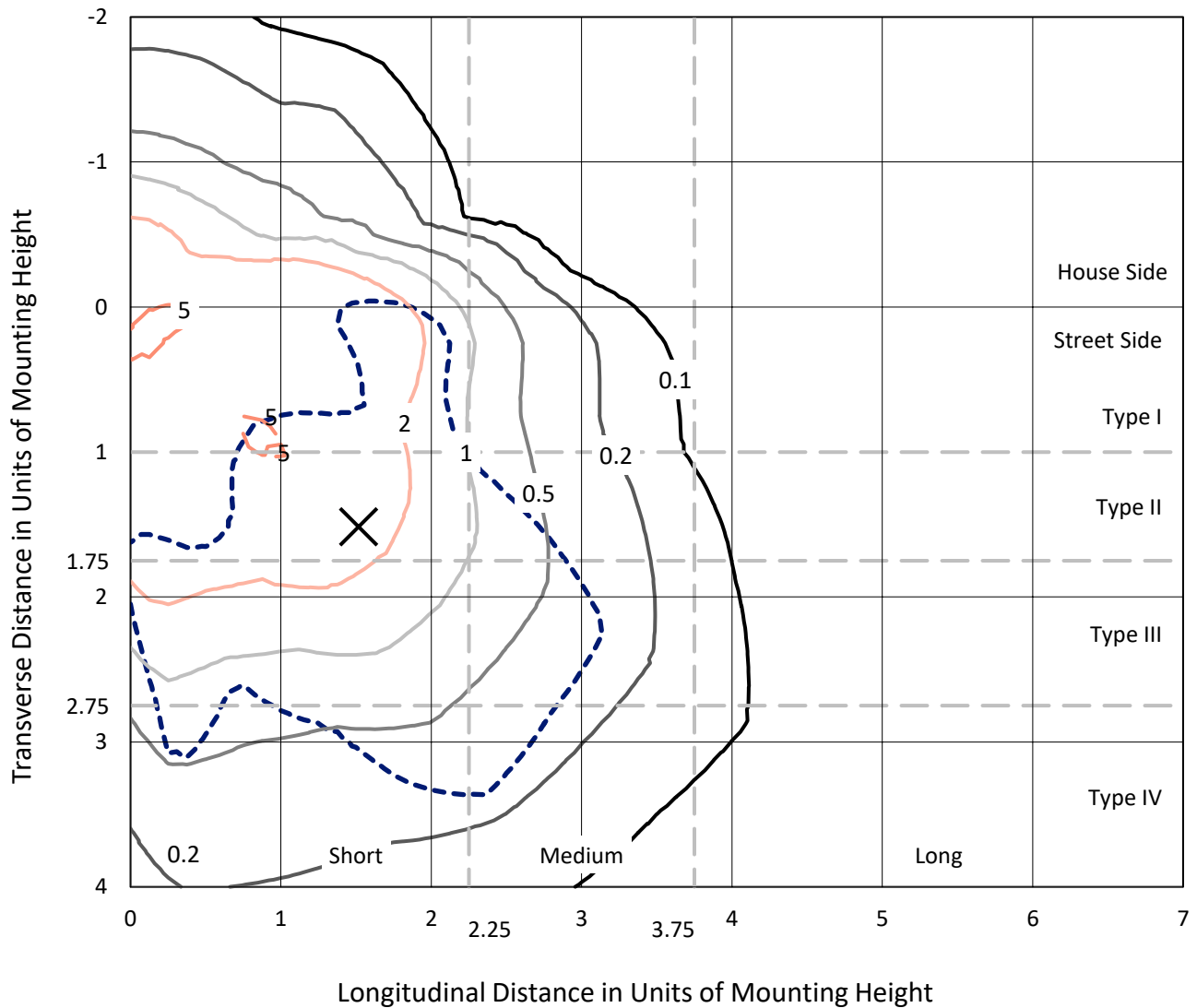
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

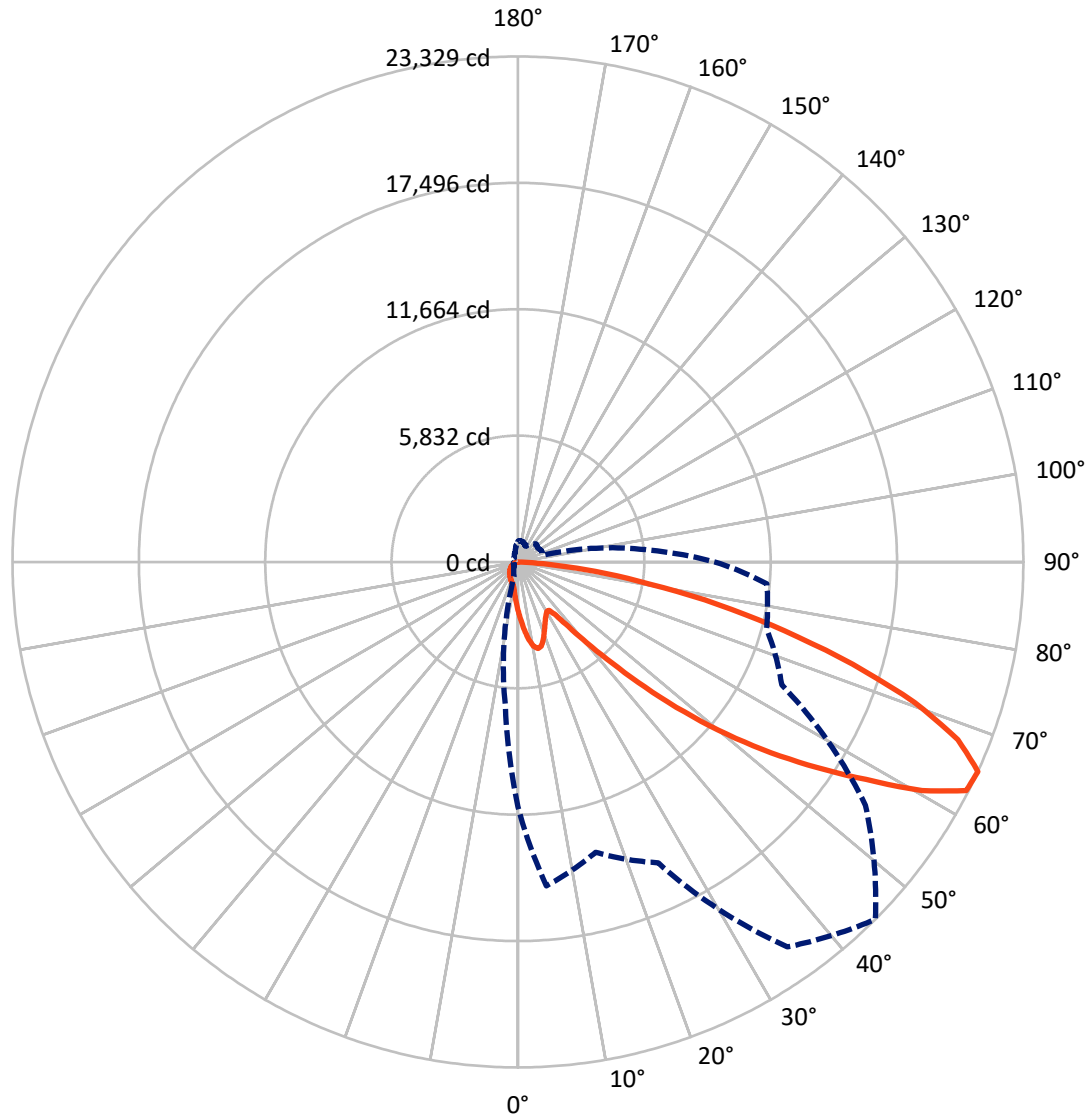
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	3299.4	0.0	3299.4
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	13299.6	0.0	13299.6
	% Fixture	80.1	0.0	80.1
Total	Lumens	16599.0	0.0	16599.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	1.4
10°-20°	678.3	4.1
20°-30°	999.3	6.0
30°-40°	1283.9	7.7
40°-50°	2076.4	12.5
50°-60°	3641.2	21.9
60°-70°	4556.1	27.4
70°-80°	2662.4	16.0
80°-90°	475.0	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°	16599.0	100.0
0°-180°	16599.0	100.0



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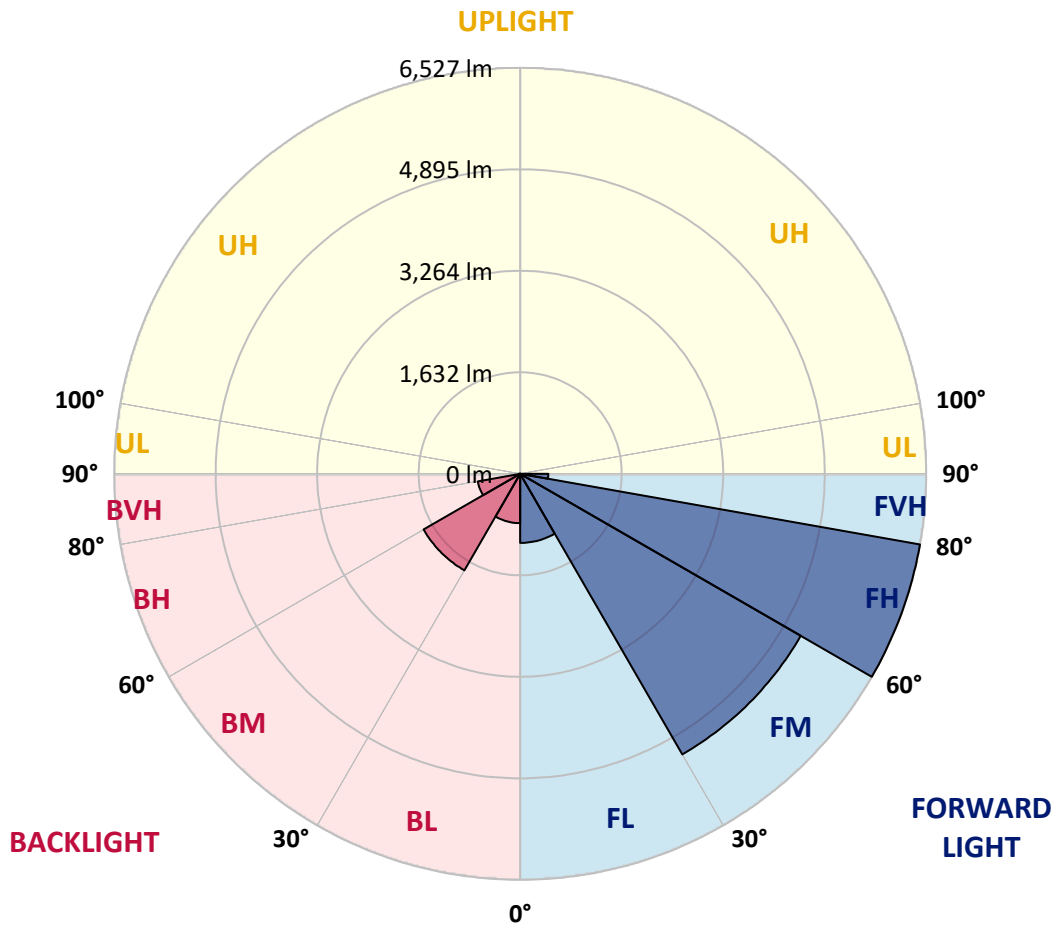
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.7	6.7			
FM (30°-60°)	5209.0	31.4			
FH (60°-80°)	6527.2	39.3			G3/7500
FVH (80°-90°)	452.8	2.7			G3/500
BL (0°-30°)	793.3	4.8	B2/1000		
BM (30°-60°)	1792.5	10.8	B2/2500		
BH (60°-80°)	691.3	4.2	B2/1000		G2/1000
BVH (80°-90°)	22.3	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2.5°	2575.2	2594.6	2638.0	2660.9	2696.4	2698.7	2698.7	2667.8	2666.6	2603.7
5°	2878.2	2923.9	3026.8	3133.2	3156.1	3161.8	3150.3	3088.6	3042.8	2920.5
7.5°	3178.9	3267.0	3423.6	3565.4	3611.2	3611.2	3583.7	3483.1	3389.3	3212.1
10°	3428.2	3539.1	3751.8	3910.8	3963.4	3951.9	3895.9	3769.0	3639.8	3424.8
12.5°	3592.9	3717.5	3950.8	4078.9	4132.6	4102.9	4038.8	3915.3	3779.3	3552.8
15°	3675.2	3805.6	4008.0	4075.4	4060.6	4029.7	4021.7	3962.2	3859.3	3647.8
17.5°	3710.7	3831.9	3972.5	3930.2	3804.4	3780.4	3860.4	3935.9	3910.8	3730.1
20°	3743.8	3845.6	3887.9	3700.4	3480.8	3459.1	3612.3	3827.3	3937.1	3806.7
22.5°	3789.6	3852.4	3765.5	3457.9	3221.2	3170.9	3340.2	3663.8	3945.1	3903.9
25°	3852.4	3869.6	3630.6	3228.1	2990.2	2939.9	3097.7	3482.0	3931.3	4009.1
27.5°	3927.9	3892.5	3501.4	3036.0	2806.1	2759.3	2917.1	3307.0	3892.5	4114.3
30°	4026.3	3922.2	3373.3	2887.3	2674.6	2640.3	2792.4	3156.1	3844.4	4248.1
32.5°	4125.7	3934.8	3254.4	2800.4	2644.9	2657.5	2782.1	3074.9	3791.8	4376.2
35°	4233.2	3974.8	3196.1	2886.2	2893.0	3002.8	3054.3	3150.3	3783.8	4550.0
37.5°	4379.6	4064.0	3265.8	3312.7	3550.6	3778.1	3735.8	3519.7	3876.5	4809.6
40°	4590.0	4220.7	3570.0	4038.8	4527.1	4896.5	4735.2	4190.9	4160.0	5183.5
42.5°	4896.5	4469.9	4109.7	4926.2	5754.1	6362.4	5930.2	5056.5	4656.3	5717.5
45°	5349.3	4873.6	4762.7	5862.7	7266.9	8225.2	7326.4	5979.3	5351.6	6525.9
47.5°	5977.1	5467.1	5374.4	6849.6	9105.7	10345.2	8874.7	6834.7	6142.9	7628.3
50°	6810.7	6266.4	5954.2	7929.0	11121.7	12506.4	10421.8	7660.3	7049.7	8975.3
52.5°	7910.7	7381.3	6630.0	8957.0	13194.8	14621.9	11975.9	8385.3	8174.9	10538.5
55°	9411.0	9058.8	7553.9	9938.1	15266.8	16750.0	13469.3	9069.1	9661.4	12395.5
57.5°	11272.6	11524.2	8886.1	11075.9	17129.6	18943.2	14969.5	10025.0	11591.6	14472.1
60°	12473.3	14802.6	11437.3	12758.0	19246.2	21423.4	17025.5	11843.2	13620.2	15216.5
62.5°	12182.8	15845.4	14492.7	14905.5	21192.4	23226.7	19040.4	13669.4	14002.1	14119.9
65°	11292.0	15003.8	13869.5	15322.9	21685.3	23328.5	19579.0	13433.8	11877.5	11527.6
67.5°	10066.2	14005.6	12388.7	14216.0	20794.5	21906.0	18576.1	11883.2	9178.9	8650.6
70°	8743.2	12900.9	11416.7	12974.1	19096.4	19426.9	16871.2	10451.6	6751.2	5842.1
72.5°	7487.6	11750.6	10751.2	11701.4	16831.1	16147.3	14651.6	9185.7	4915.9	4213.8
75°	6203.5	10053.6	9803.2	10189.7	13852.3	12719.1	12173.7	7605.4	3858.2	3048.6
77.5°	4786.7	7855.8	8432.2	8160.0	9750.6	9447.6	9436.1	5715.2	2818.7	2034.3
80°	3276.1	5475.1	6587.7	5756.4	6328.1	6173.7	7106.8	3834.1	2044.6	1224.7
82.5°	1925.7	3333.3	4585.4	2786.7	3499.1	3591.7	4232.1	1865.0	1203.0	282.4
85°	781.0	1316.2	1793.0	1090.9	1687.8	1423.7	1606.6	523.7	335.0	6.9
87.5°	196.7	420.8	295.0	122.4	195.5	179.5	141.8	64.0	13.7	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
2298.4	0°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2596.9	2.5°	2552.3	2526.0	2460.8	2395.6	2343.0	2272.1	2225.2	2169.2	2115.5	2067.4
2894.2	5°	2822.2	2735.2	2616.3	2507.7	2396.8	2289.3	2182.9	2070.9	1968.0	1905.1
3145.8	7.5°	3041.7	2888.5	2730.7	2592.3	2458.5	2332.7	2192.1	2056.0	1894.8	1809.0
3337.9	10°	3205.2	3004.0	2797.0	2638.0	2503.1	2380.8	2261.8	2124.6	1930.2	1822.7
3454.5	12.5°	3312.7	3073.7	2831.3	2649.5	2498.5	2403.6	2351.0	2297.3	2104.0	1978.3
3540.3	15°	3387.0	3122.9	2855.3	2623.2	2437.9	2368.2	2420.8	2482.5	2359.0	2213.8
3629.5	17.5°	3468.2	3186.9	2865.6	2552.3	2320.2	2290.4	2426.5	2569.4	2563.7	2419.6
3714.1	20°	3554.0	3243.0	2858.7	2437.9	2177.2	2203.5	2377.3	2543.1	2612.9	2535.1
3811.3	22.5°	3642.0	3296.7	2832.4	2289.3	2043.4	2125.8	2299.6	2444.8	2527.1	2503.1
3930.2	25°	3753.0	3372.2	2793.6	2129.2	1932.5	2046.9	2209.2	2327.0	2384.2	2383.0
4058.3	27.5°	3885.6	3472.8	2773.0	2000.0	1853.6	1957.7	2101.7	2207.0	2247.0	2247.0
4217.2	30°	4040.0	3591.7	2750.1	1915.4	1807.9	1865.0	1977.1	2080.0	2120.0	2120.0
4391.0	32.5°	4211.5	3706.1	2695.2	1863.9	1773.6	1774.7	1845.6	1939.4	1987.4	1994.3
4608.3	35°	4417.3	3828.4	2575.2	1822.7	1733.5	1686.7	1721.0	1798.7	1855.9	1870.8
4918.2	37.5°	4687.2	3978.2	2403.6	1762.1	1671.8	1594.0	1602.0	1661.5	1724.4	1747.3
5345.9	40°	5049.7	4154.3	2225.2	1675.2	1584.9	1492.3	1488.8	1532.3	1594.0	1619.2
5924.5	42.5°	5528.8	4365.9	2054.9	1591.7	1479.7	1384.8	1379.1	1413.4	1467.1	1493.4
6688.3	45°	6141.7	4625.4	1908.5	1526.6	1376.8	1283.0	1280.7	1309.3	1356.2	1383.6
7666.0	47.5°	6993.6	4885.0	1809.0	1492.3	1295.6	1199.5	1204.1	1229.3	1271.6	1291.0
8931.9	50°	8104.0	4963.9	1758.7	1492.3	1252.1	1125.2	1148.1	1168.7	1200.7	1212.1
10449.3	52.5°	9169.7	4703.2	1713.0	1501.4	1257.8	1062.3	1111.5	1126.3	1153.8	1158.4
11855.8	55°	9692.3	4043.4	1650.1	1503.7	1293.3	1008.6	1081.7	1109.2	1119.5	1118.3
12672.2	57.5°	9512.8	3269.3	1543.7	1494.6	1317.3	974.3	1045.2	1097.8	1104.6	1094.3
12516.7	60°	8882.7	2407.1	1462.5	1427.1	1308.2	964.0	989.1	1072.6	1082.9	1069.2
11318.3	62.5°	7826.1	1670.7	1399.6	1278.4	1268.1	960.5	901.1	1017.7	1042.9	1023.4
9097.7	65°	6161.2	1180.1	1205.2	1120.6	1181.2	942.2	809.6	951.4	985.7	956.0
6600.3	67.5°	4169.2	851.9	976.5	1015.4	1040.6	901.1	743.3	875.9	921.7	882.8
4235.5	70°	2251.5	598.0	644.9	855.3	883.9	830.2	683.8	799.3	851.9	809.6
3010.8	72.5°	1329.9	430.0	451.7	687.2	736.4	730.7	617.5	710.1	774.1	723.8
2077.7	75°	733.0	290.4	322.5	498.6	598.0	563.7	530.6	601.5	666.7	617.5
1302.4	77.5°	328.2	173.8	224.1	327.0	470.0	386.5	410.5	468.8	529.4	478.0
725.0	80°	126.9	97.2	148.7	178.4	341.9	213.8	264.1	345.3	388.8	347.6
157.8	82.5°	16.0	43.5	64.0	69.8	199.0	113.2	153.2	217.3	213.8	185.2
0.0	85°	0.0	8.0	9.1	4.6	85.8	41.2	50.3	70.9	66.3	50.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	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°
2298.4	0°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2058.3	2.5°	2002.3	1961.1	1940.5	1923.4	1939.4	1948.5	1948.5	1987.4	2010.3	2019.4
1865.0	5°	1764.4	1687.8	1636.3	1605.5	1615.8	1627.2	1639.8	1688.9	1722.1	1743.8
1731.3	7.5°	1576.9	1460.2	1388.2	1350.5	1356.2	1364.2	1374.5	1422.5	1455.7	1484.3
1706.1	10°	1484.3	1319.6	1224.7	1178.9	1170.9	1166.4	1162.9	1191.5	1216.7	1239.6
1809.0	12.5°	1488.8	1259.0	1143.5	1087.5	1063.5	1036.0	1014.3	1018.9	1034.9	1063.5
1993.1	15°	1547.2	1239.6	1101.2	1031.4	991.4	959.4	933.1	927.4	933.1	937.7
2203.5	17.5°	1626.1	1237.3	1064.6	977.7	936.5	910.2	886.2	878.2	879.3	885.1
2343.0	20°	1688.9	1230.4	1023.4	926.2	889.6	866.8	842.8	834.8	837.0	838.2
2356.7	22.5°	1722.1	1220.1	977.7	874.8	843.9	821.0	799.3	798.2	798.2	805.0
2282.4	25°	1722.1	1198.4	936.5	825.6	798.2	777.6	751.3	755.9	758.1	767.3
2166.9	27.5°	1680.9	1157.2	903.4	783.3	754.7	734.1	710.1	715.8	719.3	729.6
2052.6	30°	1628.3	1108.0	865.6	743.3	710.1	695.2	674.7	677.0	681.5	693.0
1946.2	32.5°	1572.3	1049.7	834.8	703.3	670.1	658.7	635.8	639.2	643.8	656.4
1841.0	35°	1510.6	981.1	798.2	666.7	633.5	624.3	598.0	600.3	607.2	620.9
1727.8	37.5°	1445.4	925.1	761.6	631.2	596.9	587.8	560.3	562.6	570.6	586.6
1608.9	40°	1381.3	870.2	722.7	593.5	559.2	551.2	521.4	523.7	532.9	550.0
1488.8	42.5°	1311.6	827.9	672.4	554.6	518.0	510.0	482.6	486.0	496.3	513.4
1377.9	45°	1228.1	800.4	616.3	518.0	476.8	468.8	443.7	450.5	462.0	479.1
1283.0	47.5°	1142.4	789.0	569.5	479.1	434.5	427.7	407.1	418.5	431.1	444.8
1201.8	50°	1060.0	774.1	521.4	442.5	397.9	391.1	377.4	392.2	404.8	417.4
1143.5	52.5°	966.3	742.1	478.0	410.5	367.1	364.8	357.9	371.6	383.1	394.5
1093.2	55°	869.1	690.7	440.2	381.9	340.8	343.0	339.6	351.1	360.2	370.5
1047.4	57.5°	784.4	625.5	410.5	351.1	317.9	324.8	320.2	325.9	331.6	344.2
992.6	60°	698.7	547.7	377.4	314.5	295.0	303.0	290.4	289.3	291.6	295.0
911.4	62.5°	583.2	466.5	336.2	282.4	269.9	273.3	249.3	231.0	231.0	234.4
798.2	65°	468.8	391.1	290.4	245.9	235.6	233.3	199.0	173.8	171.5	181.8
666.7	67.5°	385.4	324.8	244.7	204.7	197.8	200.1	175.0	149.8	147.5	158.9
543.2	70°	319.0	261.9	195.5	157.8	164.7	175.0	149.8	125.8	122.4	132.6
441.4	72.5°	253.9	204.7	149.8	116.6	136.1	148.7	122.4	99.5	97.2	106.3
340.8	75°	186.4	146.4	101.8	84.6	105.2	116.6	89.2	70.9	67.5	75.5
227.6	77.5°	115.5	82.3	64.0	50.3	72.0	77.8	46.9	41.2	40.0	45.7
138.4	80°	53.7	35.4	30.9	17.2	26.3	30.9	19.4	21.7	22.9	27.4
69.8	82.5°	14.9	5.7	1.1	0.0	0.0	9.1	4.6	9.1	11.4	17.2
5.7	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3	5.7	10.3
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6
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°
2298.4	0°	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4	2298.4
2083.5	2.5°	2131.5	2177.2	2250.4	2325.9	2400.2	2475.7	2548.9	2575.2
1843.3	5°	1933.7	2038.9	2184.1	2339.6	2499.7	2662.1	2810.7	2878.2
1595.2	7.5°	1713.0	1863.9	2082.3	2325.9	2580.9	2835.9	3070.3	3178.9
1349.3	10°	1477.4	1668.4	1917.6	2247.0	2612.9	2965.1	3287.6	3428.2
1133.2	12.5°	1253.3	1453.4	1729.0	2123.5	2587.7	3039.4	3427.1	3592.9
981.1	15°	1065.7	1243.0	1540.3	1977.1	2506.5	3044.0	3493.4	3675.2
896.5	17.5°	925.1	1040.6	1348.2	1814.7	2400.2	3001.7	3516.3	3710.7
850.8	20°	855.3	887.4	1098.9	1606.6	2300.7	2961.7	3539.1	3743.8
814.2	22.5°	814.2	822.2	898.8	1337.9	2181.8	2949.1	3579.1	3789.6
781.0	25°	781.0	783.3	803.9	1060.0	2000.0	2941.1	3640.9	3852.4
746.7	27.5°	747.8	747.8	759.3	854.2	1753.0	2906.8	3720.9	3927.9
712.4	30°	714.7	714.7	722.7	755.9	1463.7	2839.3	3817.0	4026.3
678.1	32.5°	680.4	680.4	687.2	711.3	1168.7	2754.7	3905.0	4125.7
642.6	35°	646.1	643.8	652.9	678.1	929.7	2647.2	3993.1	4233.2
607.2	37.5°	609.5	608.3	617.5	646.1	802.7	2522.6	4059.4	4379.6
571.7	40°	570.6	570.6	580.9	611.8	766.1	2365.9	4164.6	4590.0
535.2	42.5°	535.2	532.9	544.3	582.0	738.7	2216.1	4353.3	4896.5
502.0	45°	500.9	496.3	506.6	553.5	690.7	2163.5	4705.5	5349.3
470.0	47.5°	468.8	457.4	466.5	519.1	647.2	2360.2	5281.8	5977.1
441.4	50°	442.5	420.8	428.8	484.8	614.1	2786.7	6029.7	6810.7
415.1	52.5°	415.1	386.5	391.1	442.5	584.3	3192.6	6840.4	7910.7
388.8	55°	386.5	354.5	356.8	400.2	542.0	3253.3	7631.7	9411.0
359.1	57.5°	354.5	324.8	324.8	361.3	511.1	2819.9	8240.0	11272.6
322.5	60°	319.0	299.6	293.9	330.5	538.6	1989.7	8310.9	12473.3
275.6	62.5°	280.2	269.9	261.9	300.7	559.2	1178.9	7740.3	12182.8
217.3	65°	235.6	233.3	227.6	330.5	471.1	696.4	6644.9	11292.0
185.2	67.5°	197.8	194.4	194.4	346.5	357.9	438.0	5191.5	10066.2
157.8	70°	170.4	157.8	157.8	261.9	217.3	303.0	3624.9	8743.2
130.4	72.5°	142.9	129.2	120.1	209.3	162.4	221.8	2265.3	7487.6
99.5	75°	114.3	104.1	92.6	138.4	121.2	168.1	1316.2	6203.5
62.9	77.5°	82.3	77.8	65.2	101.8	88.0	121.2	783.3	4786.7
38.9	80°	42.3	43.5	41.2	58.3	59.5	82.3	446.0	3276.1
25.2	82.5°	25.2	19.4	21.7	28.6	34.3	46.9	168.1	1925.7
18.3	85°	16.0	10.3	10.3	13.7	17.2	18.3	51.5	781.0
9.1	87.5°	8.0	3.4	4.6	6.9	5.7	4.6	2.3	196.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)