

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: P949482

Luminaire Tested: **GALN-SB4B-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949482
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-SB4B-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA 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: 14228 lumens
Efficiency: N/A
Efficacy: 96.8 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): 147
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

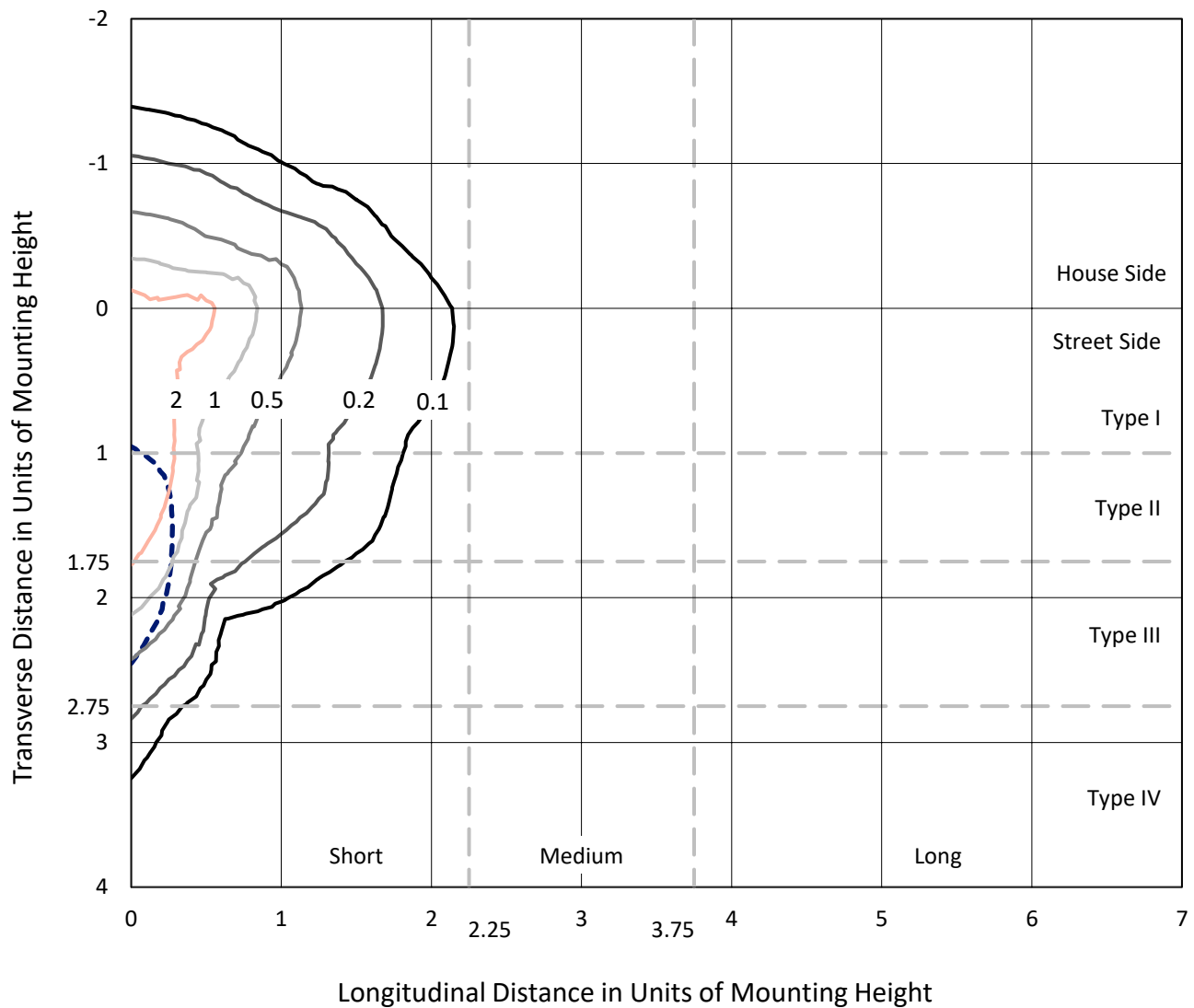


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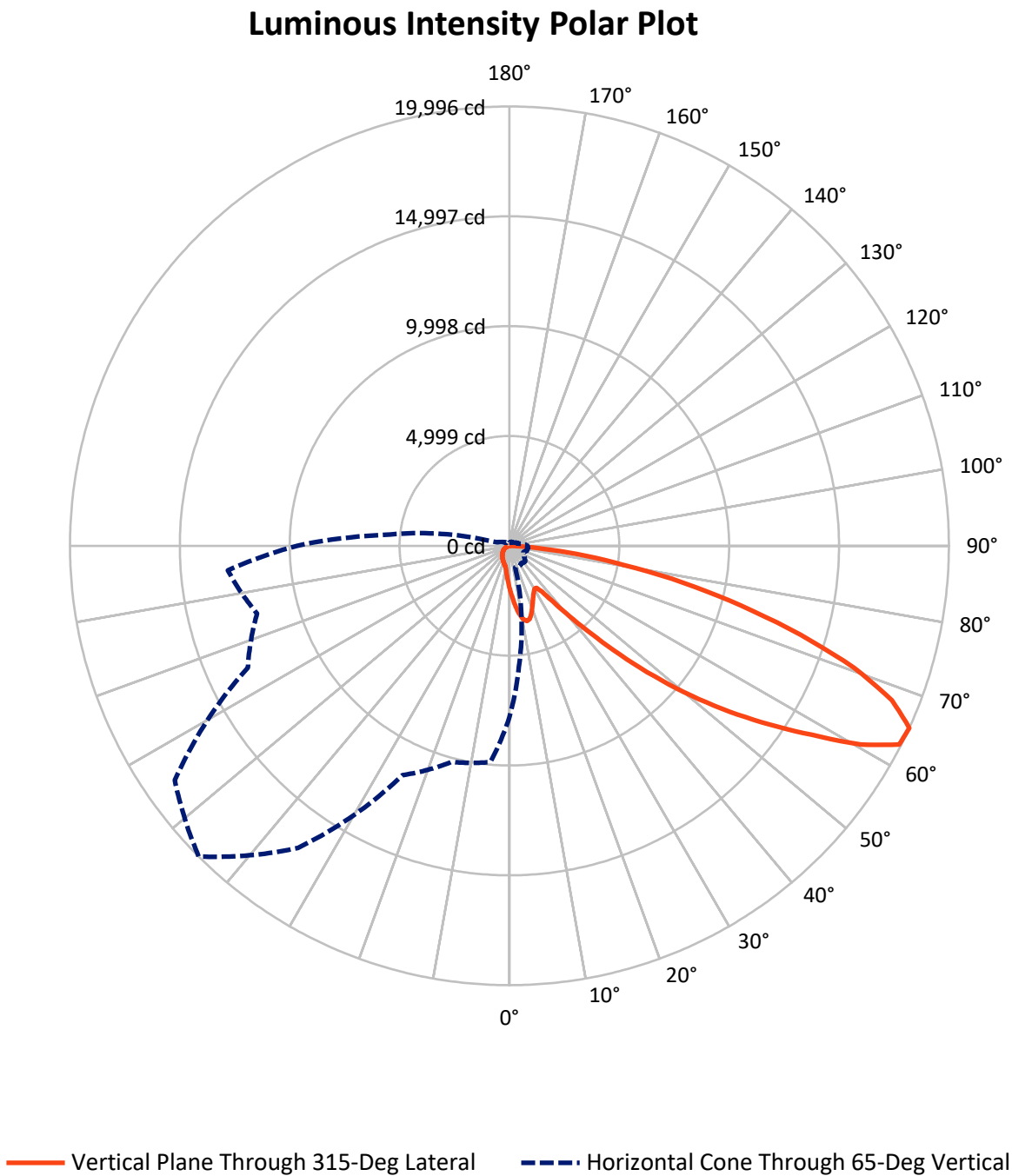
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type IV - Short - N/A

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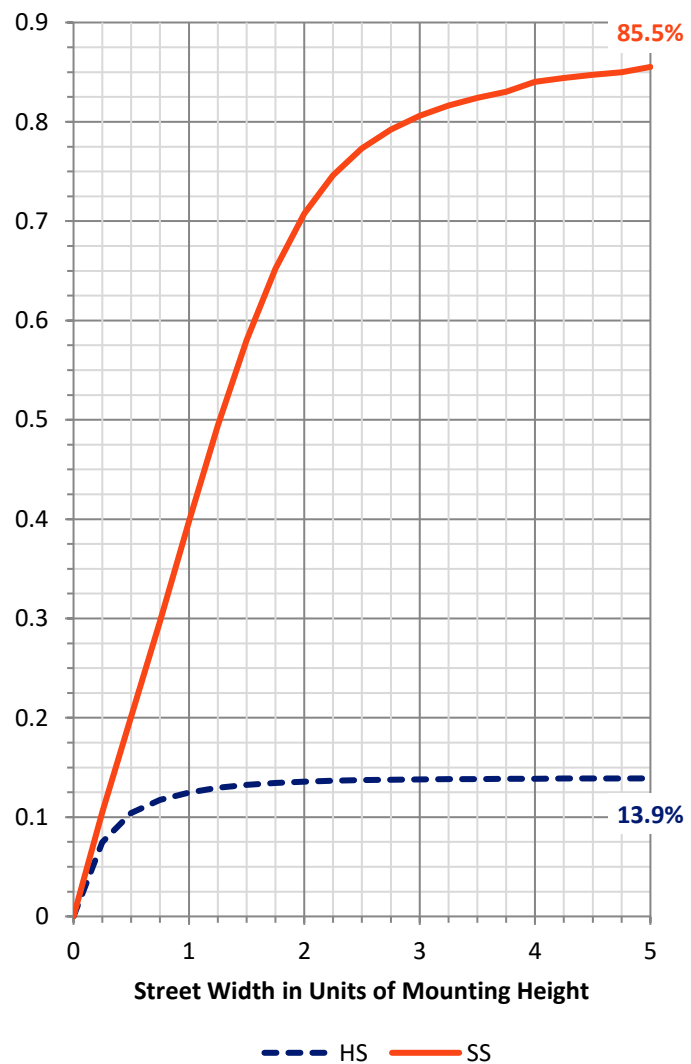
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1992.5	0.0	1992.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12235.5	0.0	12235.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	14228.0	0.0	14228.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	1.4
10°-20°	581.4	4.1
20°-30°	856.6	6.0
30°-40°	1100.5	7.7
40°-50°	1779.8	12.5
50°-60°	3121.1	21.9
60°-70°	3905.3	27.4
70°-80°	2282.1	16.0
80°-90°	407.2	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°	14228.0	100.0
0°-180°	14228.0	100.0

Coefficient of Utilization



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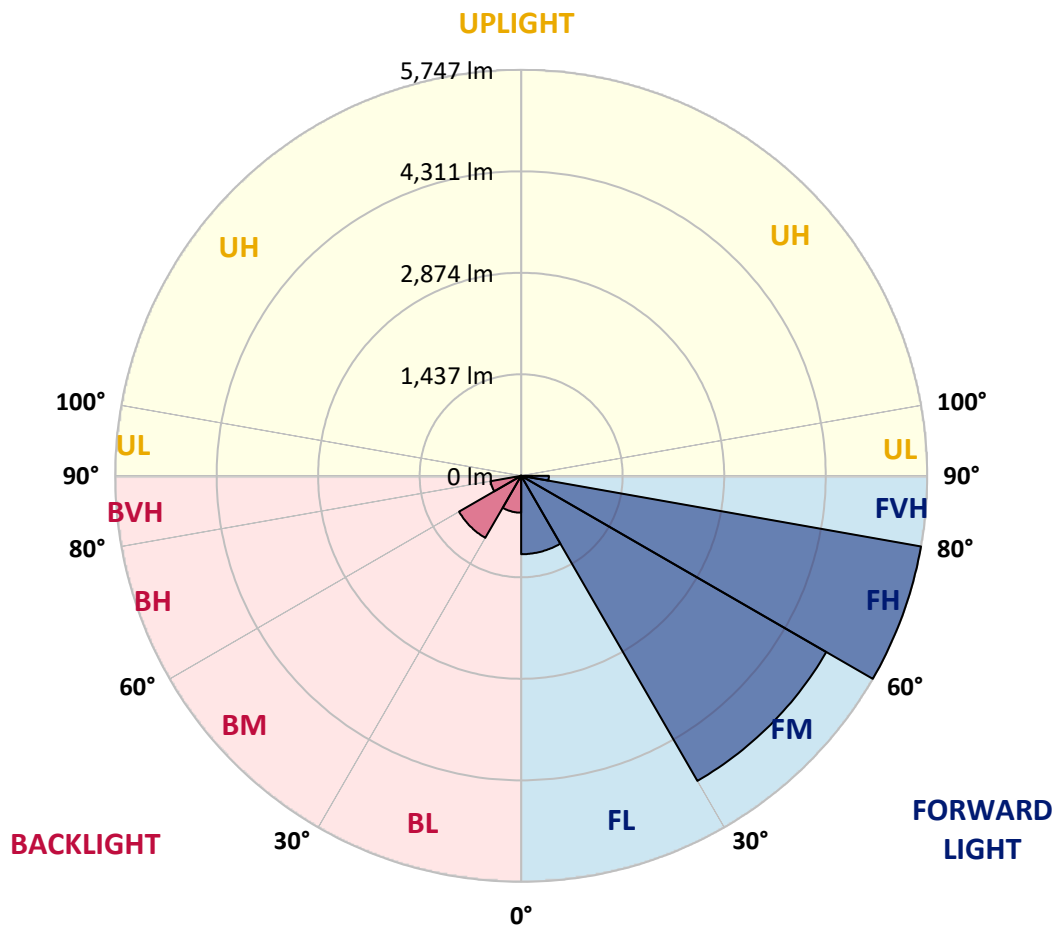
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1109.7	7.8			
FM	(30°-60°)	4986.8	35.0			
FH	(60°-80°)	5747.5	40.4			G3/7500
FVH	(80°-90°)	391.5	2.8			G3/500
BL	(0°-30°)	522.3	3.7	B2/1000		
BM	(30°-60°)	1014.6	7.1	B2/2500		
BH	(60°-80°)	440.0	3.1	B1/500		G1/500
BVH	(80°-90°)	15.6	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°	90°
0°	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1
2.5°	2225.9	2187.7	2165.2	2109.3	2053.4	2008.3	1947.6	1907.4	1859.4	1813.3	1772.1
5°	2480.8	2419.0	2344.5	2242.6	2149.5	2054.4	1962.3	1871.1	1775.1	1686.9	1632.9
7.5°	2696.4	2607.2	2475.9	2340.6	2222.0	2107.3	1999.5	1879.0	1762.3	1624.1	1550.6
10°	2861.1	2747.4	2574.9	2397.5	2261.2	2145.6	2040.7	1938.8	1821.1	1654.5	1562.4
12.5°	2961.1	2839.5	2634.7	2426.9	2271.0	2141.7	2060.3	2015.2	1969.1	1803.5	1695.7
15°	3034.6	2903.2	2676.8	2447.5	2248.5	2089.7	2029.9	2075.0	2127.9	2022.1	1897.6
17.5°	3111.0	2972.8	2731.7	2456.3	2187.7	1988.7	1963.3	2079.9	2202.4	2197.5	2074.0
20°	3183.6	3046.3	2779.7	2450.4	2089.7	1866.2	1888.8	2037.8	2179.9	2239.7	2173.0
22.5°	3266.9	3121.8	2825.8	2427.9	1962.3	1751.5	1822.1	1971.1	2095.6	2166.2	2145.6
25°	3368.8	3216.9	2890.5	2394.5	1825.1	1656.5	1754.5	1893.7	1994.6	2043.6	2042.7
27.5°	3478.6	3330.6	2976.7	2376.9	1714.3	1588.8	1678.0	1801.5	1891.7	1926.0	1926.0
30°	3614.8	3462.9	3078.7	2357.3	1641.8	1549.6	1598.6	1694.7	1782.9	1817.2	1817.2
32.5°	3763.8	3609.9	3176.7	2310.2	1597.7	1520.2	1521.2	1582.0	1662.4	1703.5	1709.4
35°	3950.0	3786.4	3281.6	2207.3	1562.4	1485.9	1445.7	1475.1	1541.8	1590.8	1603.5
37.5°	4215.7	4017.7	3410.0	2060.3	1510.4	1433.0	1366.3	1373.2	1424.2	1478.1	1497.7
40°	4582.3	4328.4	3560.9	1907.4	1435.9	1358.5	1279.1	1276.2	1313.4	1366.3	1387.9
42.5°	5078.2	4739.1	3742.3	1761.3	1364.4	1268.3	1187.0	1182.1	1211.5	1257.5	1280.1
45°	5733.0	5264.4	3964.7	1635.9	1308.5	1180.1	1099.7	1097.8	1122.3	1162.5	1186.0
47.5°	6571.0	5994.7	4187.2	1550.6	1279.1	1110.5	1028.2	1032.1	1053.7	1089.9	1106.6
50°	7656.0	6946.4	4254.9	1507.5	1279.1	1073.3	964.5	984.1	1001.7	1029.2	1039.0
52.5°	8956.7	7859.9	4031.4	1468.3	1287.0	1078.2	910.6	952.7	965.5	989.0	992.9
55°	10162.3	8307.8	3465.8	1414.4	1288.9	1108.6	864.5	927.2	950.8	959.6	958.6
57.5°	10862.1	8154.0	2802.3	1323.2	1281.1	1129.1	835.1	895.9	941.0	946.8	938.0
60°	10728.8	7613.9	2063.2	1253.6	1223.2	1121.3	826.3	847.8	919.4	928.2	916.5
62.5°	9701.6	6708.2	1432.0	1199.7	1095.8	1087.0	823.3	772.4	872.3	893.9	877.2
65°	7798.2	5281.1	1011.5	1033.1	960.6	1012.5	807.7	694.0	815.5	844.9	819.4
67.5°	5657.5	3573.7	730.2	837.1	870.4	891.9	772.4	637.1	750.8	790.0	756.7
70°	3630.5	1929.9	512.6	552.8	733.2	757.7	711.6	586.1	685.1	730.2	694.0
72.5°	2580.8	1139.9	368.5	387.2	589.1	631.2	626.3	529.3	608.7	663.6	620.4
75°	1781.0	628.3	249.0	276.4	427.4	512.6	483.2	454.8	515.6	571.4	529.3
77.5°	1116.4	281.3	149.0	192.1	280.3	402.8	331.3	351.9	401.9	453.8	409.7
80°	621.4	108.8	83.3	127.4	152.9	293.1	183.3	226.4	296.0	333.3	298.0
82.5°	135.3	13.7	37.2	54.9	59.8	170.5	97.0	131.3	186.2	183.3	158.8
85°	0.0	0.0	6.9	7.8	3.9	73.5	35.3	43.1	60.8	56.8	43.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0
90°	0.0	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1
2.5°	1764.3	1716.3	1681.0	1663.3	1648.6	1662.4	1670.2	1670.2	1703.5	1723.1	1731.0
5°	1598.6	1512.4	1446.7	1402.6	1376.1	1385.0	1394.8	1405.6	1447.7	1476.1	1494.7
7.5°	1484.0	1351.6	1251.7	1189.9	1157.6	1162.5	1169.3	1178.2	1219.3	1247.7	1272.2
10°	1462.4	1272.2	1131.1	1049.8	1010.5	1003.7	999.8	996.8	1021.3	1042.9	1062.5
12.5°	1550.6	1276.2	1079.2	980.2	932.1	911.5	888.0	869.4	873.3	887.0	911.5
15°	1708.4	1326.2	1062.5	943.9	884.1	849.8	822.4	799.8	794.9	799.8	803.7
17.5°	1888.8	1393.8	1060.5	912.5	838.0	802.8	780.2	759.6	752.8	753.7	758.6
20°	2008.3	1447.7	1054.7	877.2	793.9	762.6	743.0	722.4	715.5	717.5	718.5
22.5°	2020.1	1476.1	1045.8	838.0	749.8	723.4	703.8	685.1	684.2	684.2	690.0
25°	1956.4	1476.1	1027.2	802.8	707.7	684.2	666.5	644.0	647.9	649.8	657.7
27.5°	1857.4	1440.8	991.9	774.3	671.4	646.9	629.3	608.7	613.6	616.5	625.3
30°	1759.4	1395.7	949.8	742.0	637.1	608.7	595.9	578.3	580.3	584.2	594.0
32.5°	1668.2	1347.7	899.8	715.5	602.8	574.4	564.6	545.0	547.9	551.8	562.6
35°	1578.1	1294.8	841.0	684.2	571.4	543.0	535.2	512.6	514.6	520.5	532.2
37.5°	1481.0	1238.9	792.9	652.8	541.0	511.6	503.8	480.3	482.2	489.1	502.8
40°	1379.1	1184.0	745.9	619.5	508.7	479.3	472.4	447.0	448.9	456.8	471.5
42.5°	1276.2	1124.2	709.6	576.3	475.4	444.0	437.2	413.6	416.6	425.4	440.1
45°	1181.1	1052.7	686.1	528.3	444.0	408.7	401.9	380.3	386.2	396.0	410.7
47.5°	1099.7	979.2	676.3	488.1	410.7	372.5	366.6	348.9	358.7	369.5	381.3
50°	1030.1	908.6	663.6	447.0	379.3	341.1	335.2	323.5	336.2	347.0	357.8
52.5°	980.2	828.2	636.1	409.7	351.9	314.6	312.7	306.8	318.6	328.4	338.2
55°	937.0	744.9	592.0	377.4	327.4	292.1	294.0	291.1	300.9	308.8	317.6
57.5°	897.8	672.4	536.1	351.9	300.9	272.5	278.4	274.4	279.3	284.2	295.0
60°	850.8	598.9	469.5	323.5	269.5	252.9	259.7	249.0	248.0	249.9	252.9
62.5°	781.2	499.9	399.9	288.2	242.1	231.3	234.3	213.7	198.0	198.0	200.9
65°	684.2	401.9	335.2	249.0	210.7	201.9	200.0	170.5	149.0	147.0	155.8
67.5°	571.4	330.3	278.4	209.8	175.4	169.6	171.5	150.0	128.4	126.4	136.2
70°	465.6	273.5	224.5	167.6	135.3	141.1	150.0	128.4	107.8	104.9	113.7
72.5°	378.3	217.6	175.4	128.4	100.0	116.6	127.4	104.9	85.3	83.3	91.2
75°	292.1	159.8	125.5	87.2	72.5	90.2	100.0	76.5	60.8	57.8	64.7
77.5°	195.1	99.0	70.6	54.9	43.1	61.8	66.7	40.2	35.3	34.3	39.2
80°	118.6	46.1	30.4	26.5	14.7	22.5	26.5	16.7	18.6	19.6	23.5
82.5°	59.8	12.7	4.9	1.0	0.0	0.0	7.8	3.9	7.8	9.8	14.7
85°	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.9	8.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
90°	0.0	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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1
2.5°	1785.9	1827.0	1866.2	1929.0	1993.6	2057.4	2122.0	2184.8	2207.3	2224.0	2261.2
5°	1580.0	1657.5	1747.6	1872.1	2005.4	2142.6	2281.8	2409.2	2467.1	2506.3	2594.5
7.5°	1367.3	1468.3	1597.7	1784.9	1993.6	2212.2	2430.8	2631.7	2724.8	2800.3	2934.6
10°	1156.6	1266.4	1430.1	1643.7	1926.0	2239.7	2541.6	2818.0	2938.5	3033.6	3215.9
12.5°	971.3	1074.3	1245.8	1482.0	1820.2	2218.1	2605.3	2937.5	3079.7	3186.5	3386.5
15°	841.0	913.5	1065.4	1320.3	1694.7	2148.5	2609.2	2994.4	3150.2	3262.0	3435.5
17.5°	768.4	792.9	891.9	1155.6	1555.5	2057.4	2572.9	3014.0	3180.6	3284.5	3405.1
20°	729.2	733.2	760.6	941.9	1377.1	1972.1	2538.6	3033.6	3209.0	3296.3	3332.5
22.5°	697.9	697.9	704.7	770.4	1146.8	1870.1	2527.8	3067.9	3248.3	3302.2	3227.7
25°	669.4	669.4	671.4	689.1	908.6	1714.3	2521.0	3120.8	3302.2	3316.9	3112.0
27.5°	640.0	641.0	641.0	650.8	732.2	1502.6	2491.6	3189.4	3366.9	3336.5	3001.3
30°	610.6	612.6	612.6	619.5	647.9	1254.6	2433.7	3271.8	3451.1	3362.0	2891.5
32.5°	581.2	583.2	583.2	589.1	609.7	1001.7	2361.2	3347.2	3536.4	3372.7	2789.5
35°	550.9	553.8	551.8	559.7	581.2	796.9	2269.1	3422.7	3628.6	3407.0	2739.5
37.5°	520.5	522.4	521.4	529.3	553.8	688.1	2162.2	3479.6	3754.0	3483.5	2799.3
40°	490.1	489.1	489.1	497.9	524.4	656.7	2028.0	3569.7	3934.4	3617.8	3060.1
42.5°	458.7	458.7	456.8	466.6	498.9	633.2	1899.6	3731.5	4197.0	3831.4	3522.7
45°	430.3	429.3	425.4	434.2	474.4	592.0	1854.5	4033.4	4585.2	4177.4	4082.4
47.5°	402.8	401.9	392.1	399.9	445.0	554.8	2023.1	4527.4	5123.3	4686.1	4606.8
50°	378.3	379.3	360.7	367.6	415.6	526.3	2388.7	5168.4	5837.8	5371.3	5103.7
52.5°	355.8	355.8	331.3	335.2	379.3	500.9	2736.6	5863.3	6780.8	6326.9	5683.0
55°	333.3	331.3	303.8	305.8	343.1	464.6	2788.6	6541.6	8066.7	7764.8	6474.9
57.5°	307.8	303.8	278.4	278.4	309.7	438.1	2417.1	7063.0	9662.4	9878.1	7616.8
60°	276.4	273.5	256.8	251.9	283.3	461.7	1705.5	7123.8	10691.6	12688.2	9803.6
62.5°	236.2	240.1	231.3	224.5	257.8	479.3	1010.5	6634.7	10442.6	13582.1	12422.6
65°	186.2	201.9	200.0	195.1	283.3	403.8	596.9	5695.7	9679.1	12860.7	11888.4
67.5°	158.8	169.6	166.6	166.6	297.0	306.8	375.4	4449.9	8628.4	12005.0	10619.1
70°	135.3	146.0	135.3	135.3	224.5	186.2	259.7	3107.1	7494.3	11058.2	9785.9
72.5°	111.7	122.5	110.8	102.9	179.4	139.2	190.2	1941.7	6418.1	10072.1	9215.5
75°	85.3	98.0	89.2	79.4	118.6	103.9	144.1	1128.2	5317.4	8617.6	8402.9
77.5°	53.9	70.6	66.7	55.9	87.2	75.5	103.9	671.4	4103.0	6733.7	7227.7
80°	33.3	36.3	37.2	35.3	50.0	51.0	70.6	382.3	2808.2	4693.0	5646.7
82.5°	21.6	21.6	16.7	18.6	24.5	29.4	40.2	144.1	1650.6	2857.2	3930.4
85°	15.7	13.7	8.8	8.8	11.8	14.7	15.7	44.1	669.4	1128.2	1536.9
87.5°	7.8	6.9	2.9	3.9	5.9	4.9	3.9	2.0	168.6	360.7	252.9
90°	0.0	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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1	1970.1
2.5°	2280.8	2311.2	2313.2	2313.2	2286.7	2285.7	2231.8	2225.9
5°	2685.6	2705.2	2710.1	2700.3	2647.4	2608.2	2503.3	2480.8
7.5°	3056.1	3095.3	3095.3	3071.8	2985.6	2905.2	2753.3	2696.4
10°	3352.1	3397.2	3387.4	3339.4	3230.6	3119.9	2935.6	2861.1
12.5°	3496.2	3542.3	3516.8	3461.9	3356.1	3239.4	3045.4	2961.1
15°	3493.3	3480.6	3454.1	3447.2	3396.3	3308.0	3126.7	3034.6
17.5°	3368.8	3261.0	3240.4	3309.0	3373.7	3352.1	3197.3	3111.0
20°	3171.8	2983.6	2965.0	3096.3	3280.6	3374.7	3263.0	3183.6
22.5°	2964.0	2761.1	2718.0	2863.0	3140.4	3381.6	3346.3	3266.9
25°	2767.0	2563.1	2520.0	2655.3	2984.6	3369.8	3436.4	3368.8
27.5°	2602.3	2405.3	2365.1	2500.4	2834.6	3336.5	3526.6	3478.6
30°	2474.9	2292.6	2263.2	2393.6	2705.2	3295.3	3641.3	3614.8
32.5°	2400.4	2267.1	2277.9	2384.7	2635.7	3250.2	3751.1	3763.8
35°	2473.9	2479.8	2573.9	2618.0	2700.3	3243.4	3900.1	3950.0
37.5°	2839.5	3043.4	3238.5	3202.2	3016.9	3322.7	4122.6	4215.7
40°	3461.9	3880.5	4197.0	4058.8	3592.3	3565.8	4443.1	4582.3
42.5°	4222.5	4932.2	5453.6	5083.1	4334.3	3991.2	4900.8	5078.2
45°	5025.3	6228.9	7050.3	6279.9	5125.3	4587.2	5593.8	5733.0
47.5°	5871.2	7805.0	8867.5	7607.0	5858.4	5265.4	6538.7	6571.0
50°	6796.4	9533.0	10720.0	8933.2	6566.1	6042.7	7693.3	7656.0
52.5°	7677.6	11310.1	12533.3	10265.2	7187.5	7007.2	9033.2	8956.7
55°	8518.6	13086.1	14357.4	11545.3	7773.7	8281.4	10624.9	10162.3
57.5°	9493.8	14682.8	16237.3	12831.3	8593.1	9935.9	12404.9	10862.1
60°	10935.7	16497.1	18363.3	14593.6	10151.5	11674.7	13043.0	10728.8
62.5°	12776.4	18165.3	19909.0	16320.7	11716.8	12002.1	12103.0	9701.6
65°	13134.2	18587.8	19996.3	16782.3	11514.9	10180.9	9881.0	7798.2
67.5°	12185.4	17824.2	18776.9	15922.7	10185.8	7867.7	7414.9	5657.5
70°	11120.9	16368.7	16651.9	14461.3	8958.7	5786.9	5007.6	3630.5
72.5°	10030.0	14427.0	13840.8	12558.8	7873.6	4213.7	3611.9	2580.8
75°	8734.2	11873.7	10902.3	10434.8	6519.0	3307.1	2613.1	1781.0
77.5°	6994.4	8357.8	8098.1	8088.3	4898.8	2416.1	1743.7	1116.4
80°	4934.1	5424.2	5291.9	6091.7	3286.5	1752.5	1049.8	621.4
82.5°	2388.7	2999.3	3078.7	3627.6	1598.6	1031.1	242.1	135.3
85°	935.1	1446.7	1220.3	1377.1	448.9	287.2	5.9	0.0
87.5°	104.9	167.6	153.9	121.5	54.9	11.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)