

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: P949167

Luminaire Tested: **GALN-SB4A-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949167
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-SB4A-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA 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: 13721 lumens
Efficiency: N/A
Efficacy: 120.4 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): 114
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



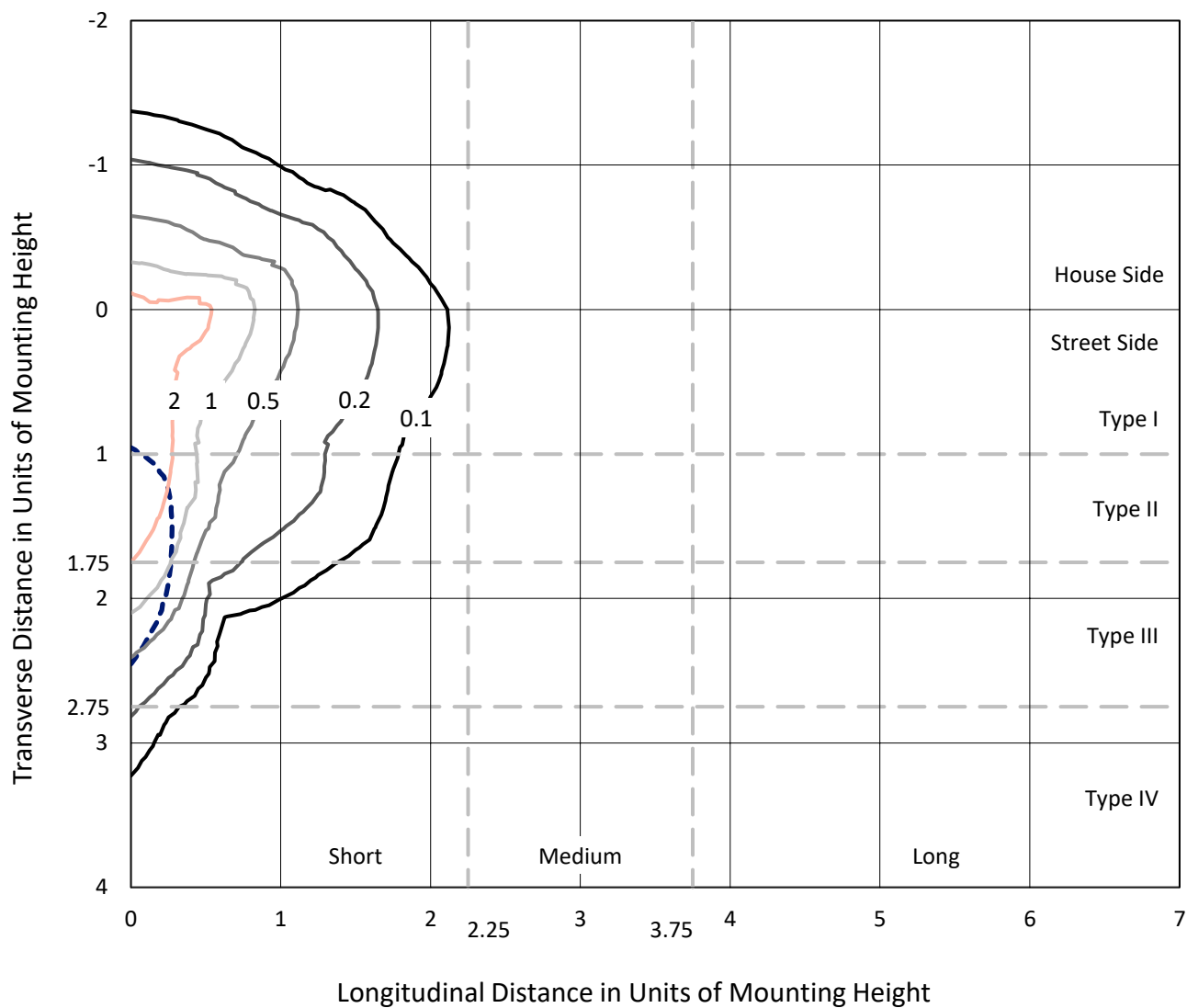
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

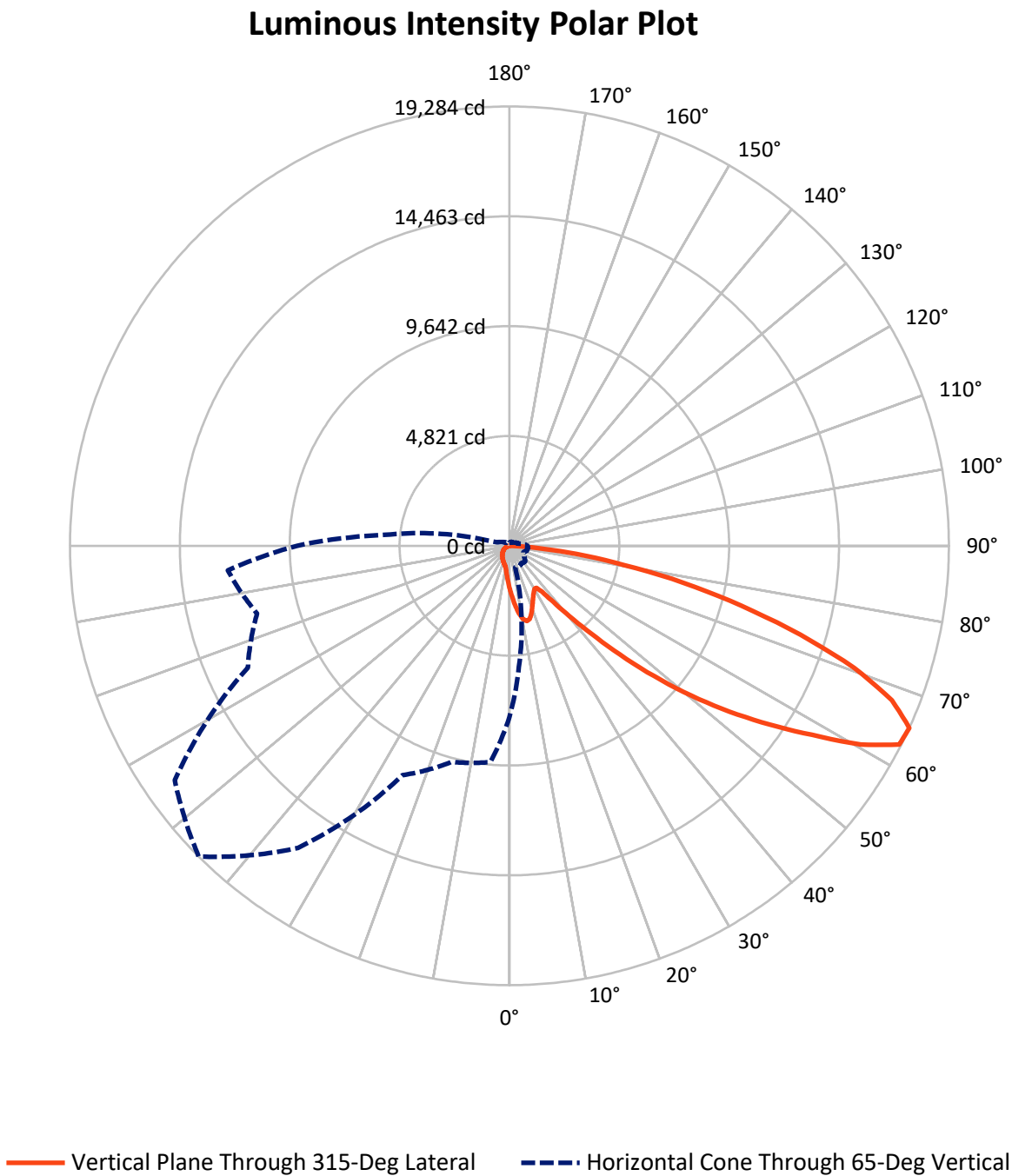
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc

Type IV - Short - N/A

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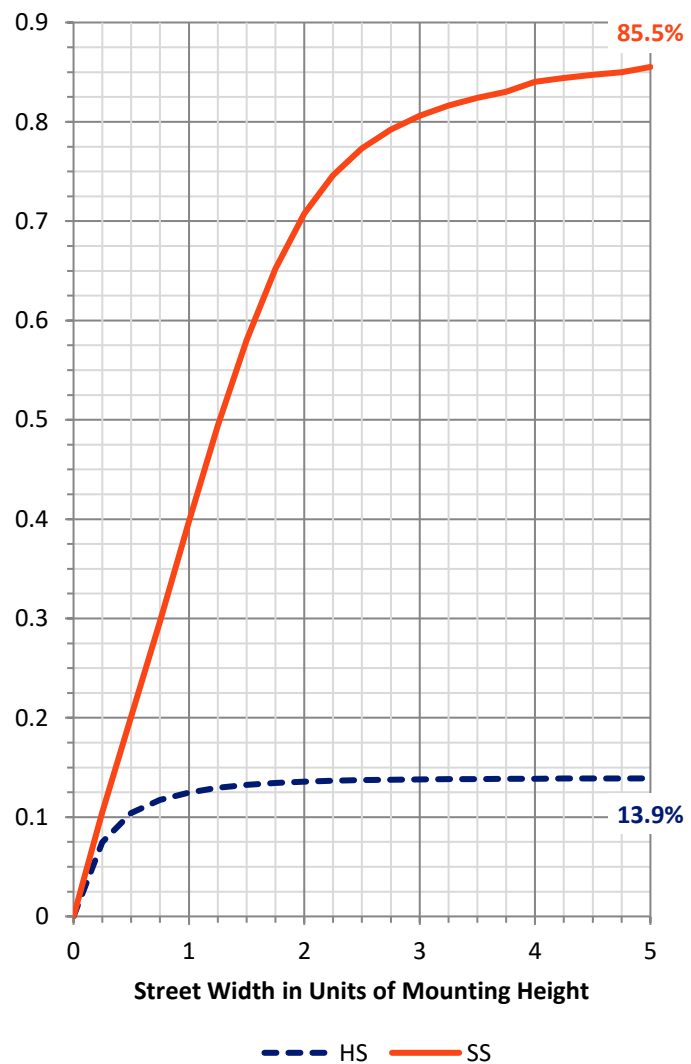
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1921.5	0.0	1921.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	11799.5	0.0	11799.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	13721.0	0.0	13721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.1	1.4
10°-20°	560.7	4.1
20°-30°	826.1	6.0
30°-40°	1061.3	7.7
40°-50°	1716.4	12.5
50°-60°	3009.9	21.9
60°-70°	3766.2	27.4
70°-80°	2200.8	16.0
80°-90°	392.7	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°	13721.0	100.0
0°-180°	13721.0	100.0

Coefficient of Utilization



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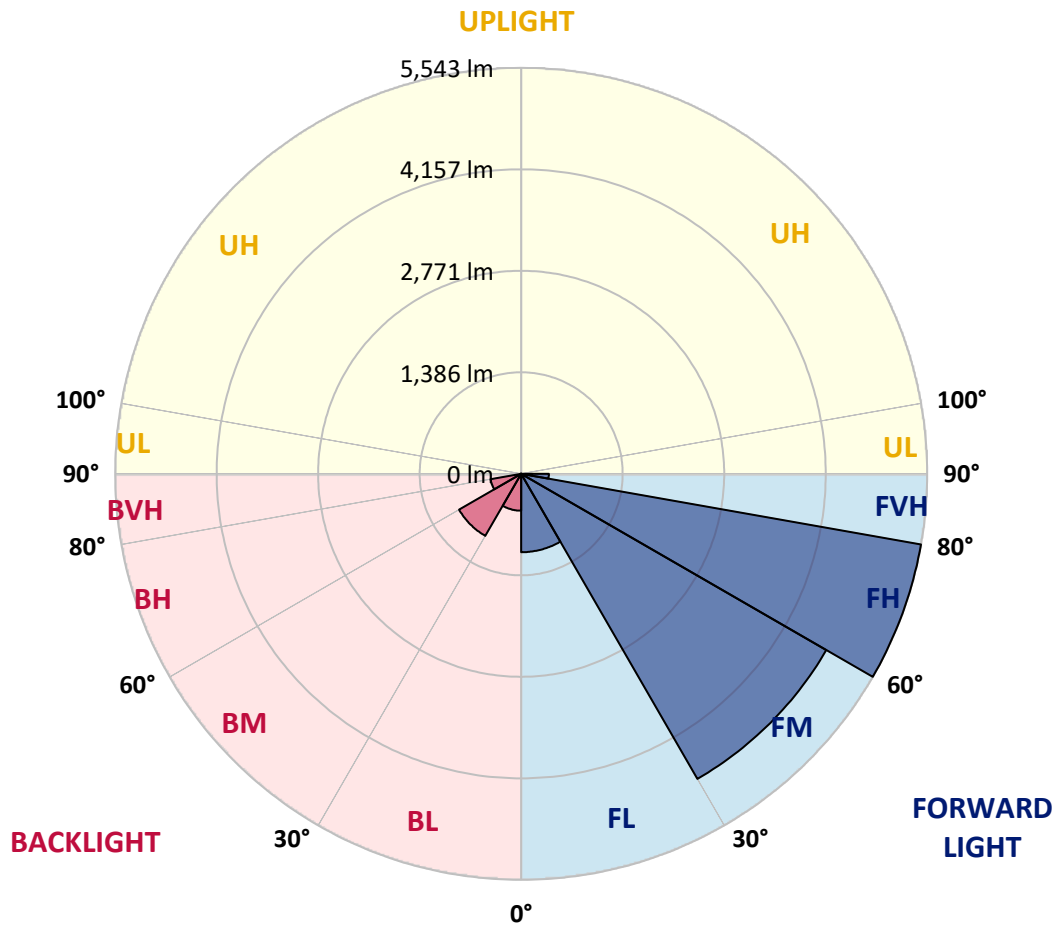
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1070.2	7.8			
FM	(30°-60°)	4809.1	35.0			
FH	(60°-80°)	5542.7	40.4			G3/7500
FVH	(80°-90°)	377.6	2.8			G3/500
BL	(0°-30°)	503.7	3.7	B2/1000		
BM	(30°-60°)	978.5	7.1	B1/1000		
BH	(60°-80°)	424.3	3.1	B1/500		G1/500
BVH	(80°-90°)	15.1	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°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9
2.5°	2146.6	2109.8	2088.0	2034.1	1980.3	1936.8	1878.2	1839.4	1793.1	1748.7	1709.0
5°	2392.4	2332.8	2261.0	2162.7	2072.9	1981.2	1892.4	1804.5	1711.8	1626.7	1574.8
7.5°	2600.3	2514.3	2387.7	2257.2	2142.8	2032.3	1928.3	1812.0	1699.5	1566.3	1495.4
10°	2759.1	2649.5	2483.1	2312.0	2180.7	2069.1	1968.0	1869.7	1756.2	1595.6	1506.7
12.5°	2855.6	2738.3	2540.8	2340.4	2190.1	2065.3	1986.9	1943.4	1899.0	1739.2	1635.3
15°	2926.4	2799.8	2581.4	2360.2	2168.4	2015.2	1957.6	2001.1	2052.1	1950.0	1830.0
17.5°	3000.2	2866.9	2634.4	2368.8	2109.8	1917.9	1893.3	2005.8	2123.9	2119.2	2000.1
20°	3070.1	2937.8	2680.7	2363.1	2015.2	1799.7	1821.5	1965.1	2102.2	2159.9	2095.6
22.5°	3150.5	3010.6	2725.1	2341.3	1892.4	1689.1	1757.2	1900.9	2020.9	2089.0	2069.1
25°	3248.8	3102.3	2787.5	2309.2	1760.0	1597.4	1692.0	1826.2	1923.6	1970.8	1969.9
27.5°	3354.6	3211.9	2870.7	2292.2	1653.2	1532.2	1618.2	1737.3	1824.3	1857.4	1857.4
30°	3486.0	3339.5	2969.0	2273.3	1583.3	1494.4	1541.7	1634.3	1719.4	1752.5	1752.5
32.5°	3629.7	3481.3	3063.5	2227.9	1540.7	1466.1	1467.0	1525.6	1603.1	1642.8	1648.5
35°	3809.3	3651.4	3164.6	2128.7	1506.7	1433.0	1394.2	1422.6	1486.9	1534.1	1546.4
37.5°	4065.4	3874.5	3288.5	1986.9	1456.6	1381.9	1317.7	1324.3	1373.4	1425.4	1444.3
40°	4419.0	4174.2	3434.0	1839.4	1384.8	1310.1	1233.5	1230.7	1266.6	1317.7	1338.5
42.5°	4897.3	4570.2	3608.9	1698.6	1315.8	1223.1	1144.7	1140.0	1168.3	1212.7	1234.5
45°	5528.7	5076.8	3823.5	1577.6	1261.9	1138.1	1060.6	1058.7	1082.3	1121.0	1143.7
47.5°	6336.8	5781.0	4038.0	1495.4	1233.5	1070.9	991.6	995.3	1016.1	1051.1	1067.2
50°	7383.2	6698.9	4103.3	1453.8	1233.5	1035.0	930.1	949.0	966.0	992.5	1001.9
52.5°	8637.5	7579.8	3887.7	1416.0	1241.1	1039.8	878.1	918.8	931.1	953.7	957.5
55°	9800.2	8011.8	3342.3	1364.0	1243.0	1069.1	833.7	894.2	916.9	925.4	924.4
57.5°	10475.1	7863.4	2702.4	1276.1	1235.4	1088.9	805.3	863.9	907.4	913.1	904.6
60°	10346.5	7342.6	1989.7	1209.0	1179.7	1081.3	796.8	817.6	886.6	895.1	883.8
62.5°	9355.9	6469.2	1381.0	1157.0	1056.8	1048.3	794.0	744.8	841.3	862.1	846.0
65°	7520.3	5092.9	975.5	996.3	926.3	976.4	778.9	669.2	786.4	814.8	790.2
67.5°	5455.9	3446.3	704.2	807.2	839.4	860.2	744.8	614.4	724.0	761.9	729.7
70°	3501.1	1861.2	494.4	533.1	707.0	730.7	686.2	565.2	660.7	704.2	669.2
72.5°	2488.8	1099.3	355.4	373.4	568.1	608.7	604.0	510.4	587.0	639.9	598.3
75°	1717.5	605.9	240.1	266.6	412.1	494.4	466.0	438.6	497.2	551.1	510.4
77.5°	1076.6	271.3	143.7	185.3	270.3	388.5	319.5	339.3	387.5	437.6	395.1
80°	599.3	104.9	80.3	122.9	147.5	282.6	176.8	218.3	285.5	321.4	287.4
82.5°	130.4	13.2	35.9	52.9	57.7	164.5	93.6	126.7	179.6	176.8	153.1
85°	0.0	0.0	6.6	7.6	3.8	70.9	34.0	41.6	58.6	54.8	41.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	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°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9
2.5°	1701.4	1655.1	1621.1	1604.1	1589.9	1603.1	1610.7	1610.7	1642.8	1661.7	1669.3
5°	1541.7	1458.5	1395.2	1352.6	1327.1	1335.6	1345.1	1355.5	1396.1	1423.5	1441.5
7.5°	1431.1	1303.5	1207.1	1147.5	1116.3	1121.0	1127.7	1136.2	1175.9	1203.3	1226.9
10°	1410.3	1226.9	1090.8	1012.3	974.5	967.9	964.1	961.3	984.9	1005.7	1024.6
12.5°	1495.4	1230.7	1040.7	945.2	898.9	879.1	856.4	838.4	842.2	855.4	879.1
15°	1647.5	1278.9	1024.6	910.3	852.6	819.5	793.1	771.3	766.6	771.3	775.1
17.5°	1821.5	1344.1	1022.7	880.0	808.2	774.1	752.4	732.6	725.9	726.9	731.6
20°	1936.8	1396.1	1017.1	846.0	765.6	735.4	716.5	696.6	690.0	691.9	692.9
22.5°	1948.1	1423.5	1008.6	808.2	723.1	697.6	678.7	660.7	659.8	659.8	665.4
25°	1886.7	1423.5	990.6	774.1	682.5	659.8	642.8	621.0	624.8	626.7	634.3
27.5°	1791.2	1389.5	956.6	746.7	647.5	623.9	606.8	587.0	591.7	594.6	603.1
30°	1696.7	1346.0	915.9	715.5	614.4	587.0	574.7	557.7	559.6	563.4	572.8
32.5°	1608.8	1299.7	867.7	690.0	581.3	553.9	544.5	525.5	528.4	532.2	542.6
35°	1521.8	1248.7	811.0	659.8	551.1	523.7	516.1	494.4	496.2	501.9	513.3
37.5°	1428.2	1194.8	764.7	629.5	521.8	493.4	485.9	463.2	465.1	471.7	484.9
40°	1329.9	1141.8	719.3	597.4	490.6	462.2	455.6	431.0	432.9	440.5	454.7
42.5°	1230.7	1084.2	684.3	555.8	458.4	428.2	421.6	398.9	401.7	410.2	424.4
45°	1139.0	1015.2	661.7	509.5	428.2	394.2	387.5	366.8	372.4	381.9	396.1
47.5°	1060.6	944.3	652.2	470.7	396.1	359.2	353.5	336.5	346.0	356.4	367.7
50°	993.4	876.2	639.9	431.0	365.8	328.9	323.3	311.9	324.2	334.6	345.0
52.5°	945.2	798.7	613.5	395.1	339.3	303.4	301.5	295.9	307.2	316.7	326.1
55°	903.6	718.4	570.9	363.9	315.7	281.7	283.6	280.7	290.2	297.7	306.3
57.5°	865.8	648.4	517.0	339.3	290.2	262.8	268.4	264.7	269.4	274.1	284.5
60°	820.5	577.5	452.8	311.9	259.9	243.9	250.5	240.1	239.1	241.0	243.9
62.5°	753.4	482.1	385.7	277.9	233.5	223.1	225.9	206.1	190.9	190.9	193.8
65°	659.8	387.5	323.3	240.1	203.2	194.7	192.8	164.5	143.7	141.8	150.3
67.5°	551.1	318.5	268.4	202.3	169.2	163.5	165.4	144.6	123.8	121.9	131.4
70°	449.0	263.7	216.5	161.6	130.4	136.1	144.6	123.8	104.0	101.1	109.6
72.5°	364.9	209.8	169.2	123.8	96.4	112.5	122.9	101.1	82.2	80.3	87.9
75°	281.7	154.1	121.0	84.1	69.9	87.0	96.4	73.7	58.6	55.8	62.4
77.5°	188.1	95.5	68.1	52.9	41.6	59.5	64.3	38.8	34.0	33.1	37.8
80°	114.4	44.4	29.3	25.5	14.2	21.7	25.5	16.1	18.0	18.9	22.7
82.5°	57.7	12.3	4.7	0.9	0.0	0.0	7.6	3.8	7.6	9.5	14.2
85°	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	4.7	8.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8
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°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9
2.5°	1722.2	1761.9	1799.7	1860.2	1922.6	1984.0	2046.4	2106.9	2128.7	2144.7	2180.7
5°	1523.7	1598.4	1685.4	1805.4	1933.9	2066.3	2200.5	2323.4	2379.2	2417.0	2502.0
7.5°	1318.6	1416.0	1540.7	1721.3	1922.6	2133.4	2344.2	2538.0	2627.7	2700.5	2830.0
10°	1115.4	1221.2	1379.1	1585.2	1857.4	2159.9	2451.0	2717.5	2833.8	2925.5	3101.3
12.5°	936.7	1036.0	1201.4	1429.2	1755.3	2139.1	2512.4	2832.9	2969.9	3073.0	3265.8
15°	811.0	881.0	1027.5	1273.2	1634.3	2072.0	2516.2	2887.7	3038.0	3145.7	3313.0
17.5°	741.1	764.7	860.2	1114.4	1500.1	1984.0	2481.2	2906.6	3067.3	3167.5	3283.7
20°	703.3	707.0	733.5	908.4	1328.1	1901.8	2448.2	2925.5	3094.7	3178.8	3213.8
22.5°	673.0	673.0	679.6	743.0	1105.9	1803.5	2437.8	2958.6	3132.5	3184.5	3112.7
25°	645.6	645.6	647.5	664.5	876.2	1653.2	2431.1	3009.6	3184.5	3198.7	3001.1
27.5°	617.2	618.2	618.2	627.6	706.1	1449.0	2402.8	3075.8	3246.9	3217.6	2894.3
30°	588.9	590.8	590.8	597.4	624.8	1209.9	2347.0	3155.2	3328.2	3242.2	2788.4
32.5°	560.5	562.4	562.4	568.1	587.9	966.0	2277.1	3228.0	3410.4	3252.5	2690.1
35°	531.2	534.1	532.2	539.7	560.5	768.5	2188.2	3300.8	3499.3	3285.6	2641.9
37.5°	501.9	503.8	502.9	510.4	534.1	663.6	2085.2	3355.6	3620.2	3359.4	2699.6
40°	472.6	471.7	471.7	480.2	505.7	633.3	1955.7	3442.5	3794.2	3488.9	2951.0
42.5°	442.4	442.4	440.5	449.9	481.1	610.6	1831.9	3598.5	4047.5	3694.9	3397.2
45°	415.0	414.0	410.2	418.7	457.5	570.9	1788.4	3889.6	4421.8	4028.6	3936.9
47.5°	388.5	387.5	378.1	385.7	429.1	535.0	1951.0	4366.0	4940.7	4519.2	4442.6
50°	364.9	365.8	347.8	354.5	400.8	507.6	2303.5	4984.2	5629.8	5179.9	4921.8
52.5°	343.1	343.1	319.5	323.3	365.8	483.0	2639.1	5654.4	6539.1	6101.5	5480.5
55°	321.4	319.5	293.0	294.9	330.8	448.0	2689.2	6308.5	7779.3	7488.1	6244.2
57.5°	296.8	293.0	268.4	268.4	298.7	422.5	2330.9	6811.4	9318.1	9526.1	7345.4
60°	266.6	263.7	247.7	242.9	273.2	445.2	1644.7	6870.0	10310.6	12236.0	9454.2
62.5°	227.8	231.6	223.1	216.5	248.6	462.2	974.5	6398.3	10070.5	13098.1	11979.9
65°	179.6	194.7	192.8	188.1	273.2	389.4	575.6	5492.8	9334.2	12402.4	11464.7
67.5°	153.1	163.5	160.7	160.7	286.4	295.9	362.0	4291.4	8320.9	11577.2	10240.7
70°	130.4	140.8	130.4	130.4	216.5	179.6	250.5	2996.4	7227.3	10664.1	9437.2
72.5°	107.8	118.2	106.8	99.2	173.0	134.2	183.4	1872.5	6189.4	9713.2	8887.1
75°	82.2	94.5	86.0	76.6	114.4	100.2	138.9	1088.0	5127.9	8310.5	8103.5
77.5°	52.0	68.1	64.3	53.9	84.1	72.8	100.2	647.5	3956.7	6493.8	6970.2
80°	32.1	35.0	35.9	34.0	48.2	49.2	68.1	368.6	2708.1	4525.8	5445.5
82.5°	20.8	20.8	16.1	18.0	23.6	28.4	38.8	138.9	1591.8	2755.4	3790.4
85°	15.1	13.2	8.5	8.5	11.3	14.2	15.1	42.5	645.6	1088.0	1482.1
87.5°	7.6	6.6	2.8	3.8	5.7	4.7	3.8	1.9	162.6	347.8	243.9
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°	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9	1899.9
2.5°	2199.6	2228.9	2230.8	2230.8	2205.2	2204.3	2152.3	2146.6
5°	2589.9	2608.8	2613.6	2604.1	2553.1	2515.3	2414.1	2392.4
7.5°	2947.2	2985.0	2985.0	2962.4	2879.2	2801.7	2655.2	2600.3
10°	3232.7	3276.2	3266.7	3220.4	3115.5	3008.7	2831.0	2759.1
12.5°	3371.6	3416.1	3391.5	3338.6	3236.5	3124.0	2936.8	2855.6
15°	3368.8	3356.5	3331.0	3324.4	3275.2	3190.2	3015.3	2926.4
17.5°	3248.8	3144.8	3124.9	3191.1	3253.5	3232.7	3083.4	3000.2
20°	3058.8	2877.3	2859.3	2986.0	3163.7	3254.4	3146.7	3070.1
22.5°	2858.4	2662.7	2621.1	2761.0	3028.5	3261.1	3227.0	3150.5
25°	2668.4	2471.8	2430.2	2560.6	2878.2	3249.7	3314.0	3248.8
27.5°	2509.6	2319.6	2280.8	2411.3	2733.6	3217.6	3401.0	3354.6
30°	2386.7	2210.9	2182.5	2308.3	2608.8	3177.9	3511.5	3486.0
32.5°	2314.9	2186.3	2196.7	2299.8	2541.7	3134.4	3617.4	3629.7
35°	2385.8	2391.4	2482.2	2524.7	2604.1	3127.8	3761.1	3809.3
37.5°	2738.3	2935.0	3123.1	3088.1	2909.4	3204.3	3975.7	4065.4
40°	3338.6	3742.2	4047.5	3914.2	3464.3	3438.8	4284.7	4419.0
42.5°	4072.1	4756.4	5259.3	4902.0	4179.8	3849.0	4726.2	4897.3
45°	4846.2	6007.0	6799.1	6056.1	4942.6	4423.7	5394.4	5528.7
47.5°	5661.9	7526.9	8551.5	7336.0	5649.7	5077.8	6305.7	6336.8
50°	6554.2	9193.3	10338.0	8614.9	6332.1	5827.4	7419.1	7383.2
52.5°	7404.0	10907.1	12086.7	9899.4	6931.4	6757.5	8711.3	8637.5
55°	8215.0	12619.8	13845.8	11133.9	7496.6	7986.3	10246.3	9800.2
57.5°	9155.5	14159.6	15658.7	12374.1	8286.9	9581.8	11962.9	10475.1
60°	10546.0	15909.2	17709.0	14073.6	9789.8	11258.7	12578.2	10346.5
62.5°	12321.1	17518.0	19199.6	15739.1	11299.3	11574.4	11671.7	9355.9
65°	12666.1	17925.4	19283.7	16184.3	11104.6	9818.1	9528.9	7520.3
67.5°	11751.1	17189.1	18107.8	15355.3	9822.9	7587.4	7150.7	5455.9
70°	10724.6	15785.4	16058.6	13946.0	8639.4	5580.7	4829.2	3501.1
72.5°	9672.6	13912.9	13347.6	12111.3	7593.1	4063.6	3483.2	2488.8
75°	8423.0	11450.6	10513.8	10063.0	6286.7	3189.2	2520.0	1717.5
77.5°	6745.2	8060.0	7809.5	7800.1	4724.3	2330.0	1681.6	1076.6
80°	4758.3	5230.9	5103.3	5874.6	3169.4	1690.1	1012.3	599.3
82.5°	2303.5	2892.4	2969.0	3498.3	1541.7	994.4	233.5	130.4
85°	901.8	1395.2	1176.8	1328.1	432.9	277.0	5.7	0.0
87.5°	101.1	161.6	148.4	117.2	52.9	11.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)