

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: P947361

Luminaire Tested: **GALN-SB2D-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947361
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-SB2D-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 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: 14406 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 147.6
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



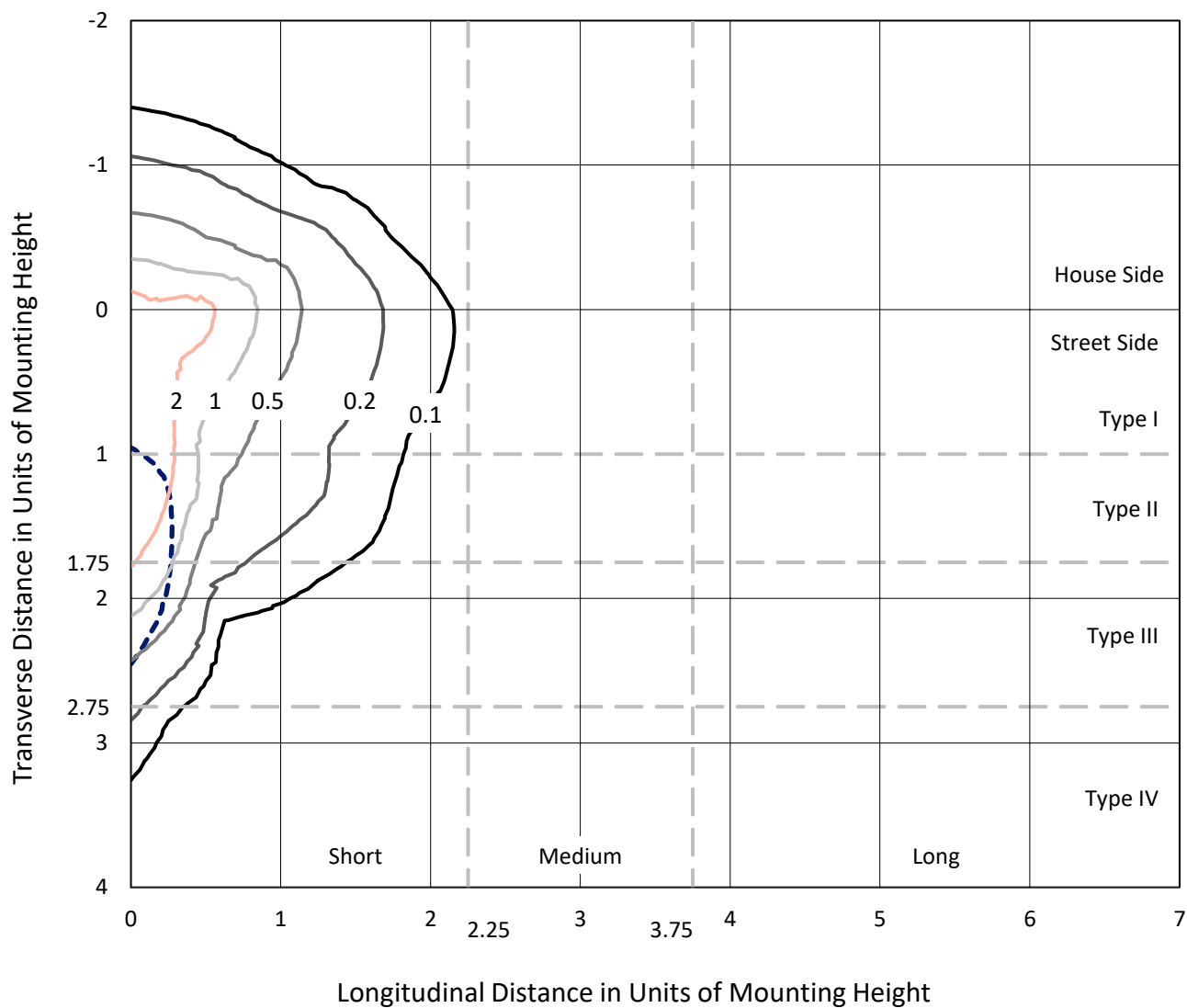
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

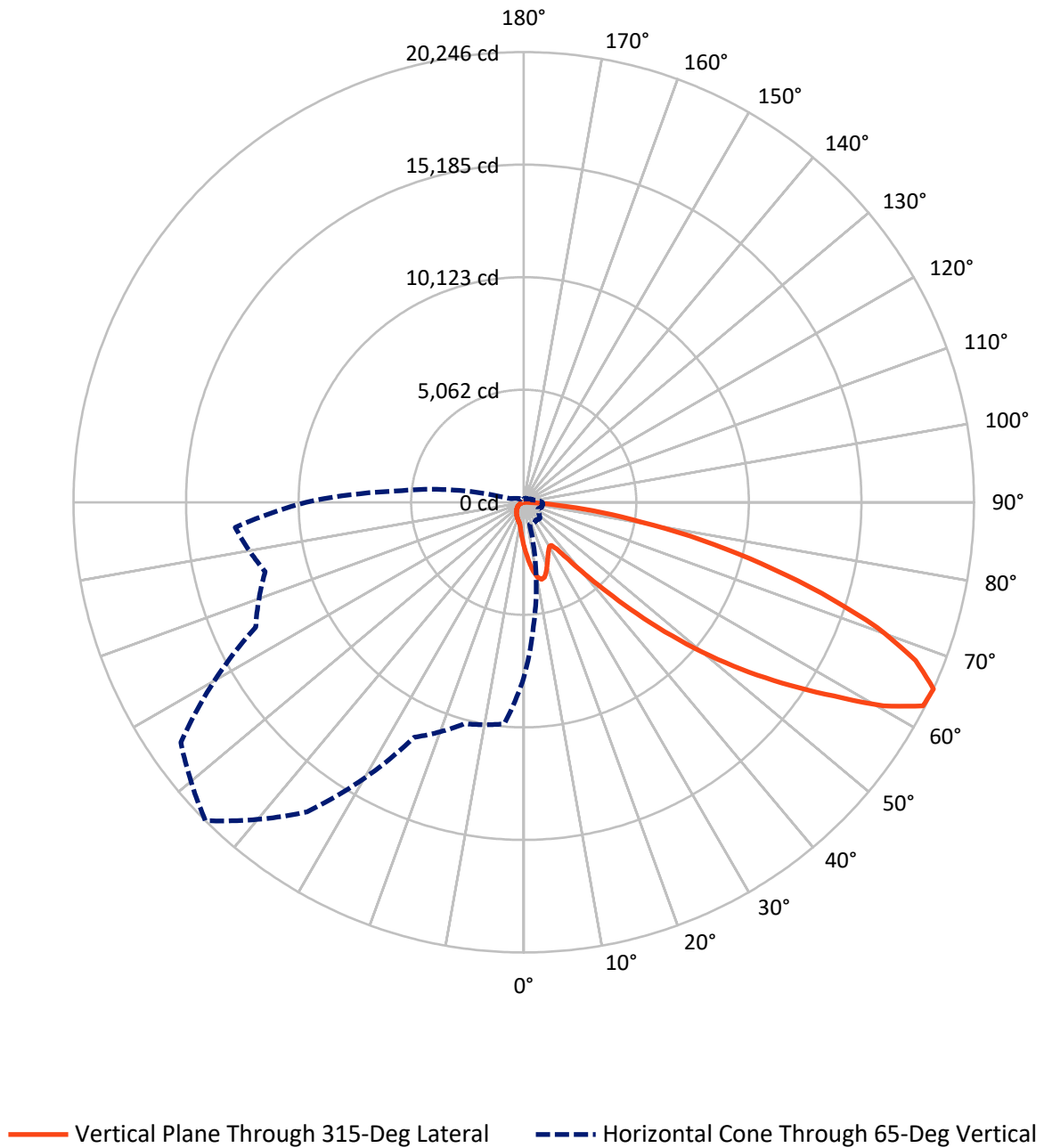


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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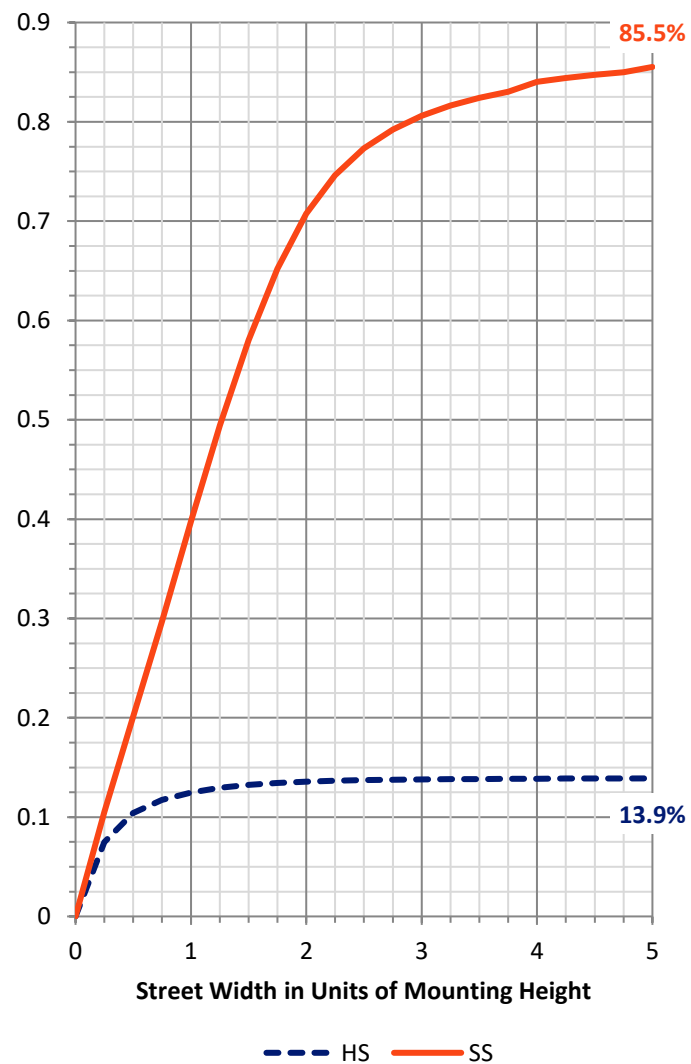
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2017.5	0.0	2017.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12388.5	0.0	12388.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	14406.0	0.0	14406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.4
10°-20°	588.7	4.1
20°-30°	867.3	6.0
30°-40°	1114.3	7.7
40°-50°	1802.1	12.5
50°-60°	3160.1	21.9
60°-70°	3954.2	27.4
70°-80°	2310.6	16.0
80°-90°	412.3	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°	14406.0	100.0
0°-180°	14406.0	100.0

Coefficient of Utilization



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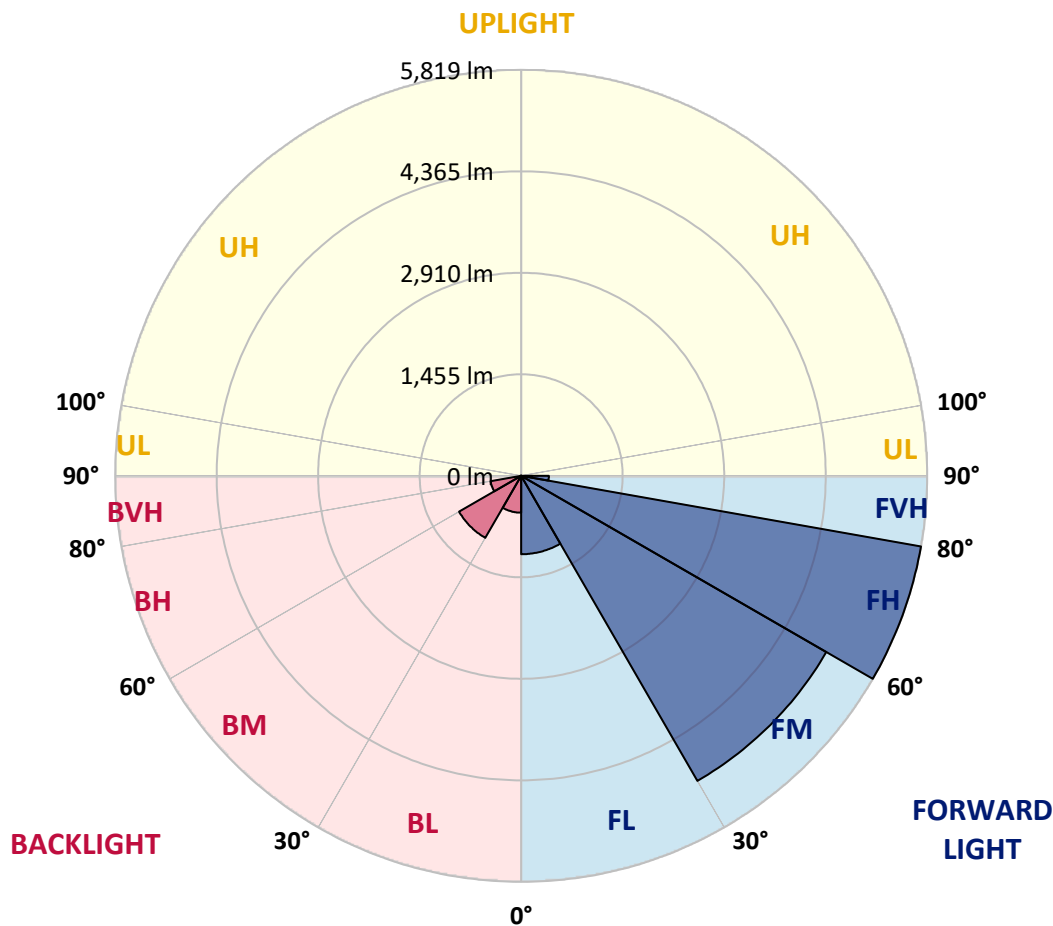
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1123.6	7.8			
FM	(30°-60°)	5049.1	35.0			
FH	(60°-80°)	5819.4	40.4			G3/7500
FVH	(80°-90°)	396.4	2.8			G3/500
BL	(0°-30°)	528.8	3.7	B2/1000		
BM	(30°-60°)	1027.3	7.1	B2/2500		
BH	(60°-80°)	445.5	3.1	B1/500		G1/500
BVH	(80°-90°)	15.8	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8
2.5°	2253.8	2215.1	2192.3	2135.7	2079.1	2033.5	1971.9	1931.3	1882.6	1836.0	1794.3
5°	2511.8	2449.3	2373.9	2270.7	2176.4	2080.1	1986.8	1894.5	1797.3	1708.0	1653.4
7.5°	2730.2	2639.8	2506.9	2369.9	2249.8	2133.7	2024.5	1902.5	1784.4	1644.4	1570.0
10°	2896.9	2781.8	2607.1	2427.5	2289.5	2172.4	2066.2	1963.0	1843.9	1675.2	1581.9
12.5°	2998.1	2875.0	2667.6	2457.2	2299.4	2168.4	2086.1	2040.4	1993.8	1826.1	1716.9
15°	3072.5	2939.6	2710.3	2478.1	2276.6	2115.8	2055.3	2101.0	2154.6	2047.4	1921.3
17.5°	3150.0	3010.0	2765.9	2487.0	2215.1	2013.6	1987.8	2105.9	2230.0	2225.0	2100.0
20°	3223.4	3084.5	2814.5	2481.1	2115.8	1889.6	1912.4	2063.2	2207.1	2267.7	2200.2
22.5°	3307.7	3160.9	2861.2	2458.2	1986.8	1773.5	1844.9	1995.8	2121.8	2193.3	2172.4
25°	3411.0	3257.1	2926.7	2424.5	1847.9	1677.2	1776.4	1917.4	2019.6	2069.2	2068.2
27.5°	3522.1	3372.3	3014.0	2406.6	1735.7	1608.7	1699.0	1824.1	1915.4	1950.1	1950.1
30°	3660.1	3506.2	3117.2	2386.8	1662.3	1569.0	1618.6	1715.9	1805.2	1840.0	1840.0
32.5°	3810.9	3655.1	3216.4	2339.1	1617.6	1539.2	1540.2	1601.8	1683.1	1724.8	1730.8
35°	3999.5	3833.7	3322.6	2234.9	1581.9	1504.5	1463.8	1493.6	1561.1	1610.7	1623.6
37.5°	4268.4	4067.9	3452.6	2086.1	1529.3	1450.9	1383.4	1390.4	1442.0	1496.6	1516.4
40°	4639.6	4382.5	3605.5	1931.3	1453.9	1375.5	1295.1	1292.1	1329.8	1383.4	1405.3
42.5°	5141.7	4798.4	3789.1	1783.4	1381.5	1284.2	1201.8	1196.9	1226.6	1273.3	1296.1
45°	5804.7	5330.3	4014.4	1656.4	1324.9	1194.9	1113.5	1111.5	1136.3	1177.0	1200.8
47.5°	6653.2	6069.7	4239.6	1570.0	1295.1	1124.4	1041.1	1045.0	1066.9	1103.6	1120.4
50°	7751.8	7033.3	4308.1	1526.3	1295.1	1086.7	976.5	996.4	1014.3	1042.0	1052.0
52.5°	9068.8	7958.2	4081.8	1486.6	1303.1	1091.7	922.0	964.6	977.5	1001.4	1005.3
55°	10289.4	8411.8	3509.2	1432.1	1305.0	1122.4	875.3	938.8	962.7	971.6	970.6
57.5°	10998.0	8256.0	2837.3	1339.8	1297.1	1143.3	845.5	907.1	952.7	958.7	949.7
60°	10863.1	7709.1	2089.1	1269.3	1238.5	1135.3	836.6	858.4	930.9	939.8	927.9
62.5°	9823.0	6792.1	1449.9	1214.7	1109.5	1100.6	833.6	782.0	883.3	905.1	888.2
65°	7895.7	5347.2	1024.2	1046.0	972.6	1025.2	817.8	702.6	825.7	855.5	829.7
67.5°	5728.3	3618.4	739.4	847.5	881.3	903.1	782.0	645.1	760.2	799.9	766.2
70°	3675.9	1954.1	519.0	559.7	742.3	767.1	720.5	593.5	693.7	739.4	702.6
72.5°	2613.0	1154.2	373.2	392.0	596.4	639.1	634.2	535.9	616.3	671.9	628.2
75°	1803.2	636.1	252.1	279.9	432.7	519.0	489.3	460.5	522.0	578.6	535.9
77.5°	1130.4	284.8	150.8	194.5	283.8	407.9	335.4	356.3	406.9	459.5	414.8
80°	629.2	110.2	84.4	129.0	154.8	296.7	185.6	229.2	299.7	337.4	301.7
82.5°	137.0	13.9	37.7	55.6	60.5	172.7	98.2	133.0	188.6	185.6	160.8
85°	0.0	0.0	6.9	7.9	4.0	74.4	35.7	43.7	61.5	57.6	43.7
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°	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8
2.5°	1786.4	1737.7	1702.0	1684.1	1669.3	1683.1	1691.1	1691.1	1724.8	1744.7	1752.6
5°	1618.6	1531.3	1464.8	1420.2	1393.4	1402.3	1412.2	1423.1	1465.8	1494.6	1513.4
7.5°	1502.5	1368.6	1267.3	1204.8	1172.1	1177.0	1184.0	1192.9	1234.6	1263.4	1288.2
10°	1480.7	1288.2	1145.3	1062.9	1023.2	1016.2	1012.3	1009.3	1034.1	1055.9	1075.8
12.5°	1570.0	1292.1	1092.7	992.4	943.8	923.0	899.1	880.3	884.2	898.1	923.0
15°	1729.8	1342.7	1075.8	955.7	895.2	860.4	832.6	809.8	804.9	809.8	813.8
17.5°	1912.4	1411.2	1073.8	923.9	848.5	812.8	790.0	769.1	762.2	763.2	768.1
20°	2033.5	1465.8	1067.8	888.2	803.9	772.1	752.3	731.4	724.5	726.5	727.4
22.5°	2045.4	1494.6	1058.9	848.5	759.2	732.4	712.6	693.7	692.7	692.7	698.7
25°	1980.9	1494.6	1040.1	812.8	716.5	692.7	674.8	652.0	656.0	658.0	665.9
27.5°	1880.6	1458.9	1004.3	784.0	679.8	655.0	637.1	616.3	621.3	624.2	633.2
30°	1781.4	1413.2	961.7	751.3	645.1	616.3	603.4	585.5	587.5	591.5	601.4
32.5°	1689.1	1364.6	911.0	724.5	610.3	581.6	571.6	551.8	554.8	558.7	569.7
35°	1597.8	1311.0	851.5	692.7	578.6	549.8	541.9	519.0	521.0	527.0	538.9
37.5°	1499.6	1254.4	802.9	661.0	547.8	518.0	510.1	486.3	488.3	495.2	509.1
40°	1396.3	1198.8	755.2	627.2	515.1	485.3	478.3	452.5	454.5	462.5	477.4
42.5°	1292.1	1138.3	718.5	583.5	481.3	449.6	442.6	418.8	421.8	430.7	445.6
45°	1195.9	1065.9	694.7	534.9	449.6	413.8	406.9	385.1	391.0	400.9	415.8
47.5°	1113.5	991.4	684.8	494.2	415.8	377.1	371.2	353.3	363.2	374.1	386.1
50°	1043.0	920.0	671.9	452.5	384.1	345.4	339.4	327.5	340.4	351.3	362.2
52.5°	992.4	838.6	644.1	414.8	356.3	318.6	316.6	310.6	322.5	332.5	342.4
55°	948.8	754.2	599.4	382.1	331.5	295.7	297.7	294.7	304.7	312.6	321.5
57.5°	909.1	680.8	542.9	356.3	304.7	275.9	281.8	277.9	282.8	287.8	298.7
60°	861.4	606.4	475.4	327.5	272.9	256.0	263.0	252.1	251.1	253.1	256.0
62.5°	791.0	506.1	404.9	291.8	245.1	234.2	237.2	216.3	200.5	200.5	203.4
65°	692.7	406.9	339.4	252.1	213.4	204.4	202.5	172.7	150.8	148.9	157.8
67.5°	578.6	334.4	281.8	212.4	177.6	171.7	173.7	151.8	130.0	128.0	137.9
70°	471.4	276.9	227.3	169.7	137.0	142.9	151.8	130.0	109.2	106.2	115.1
72.5°	383.1	220.3	177.6	130.0	101.2	118.1	129.0	106.2	86.3	84.4	92.3
75°	295.7	161.8	127.0	88.3	73.4	91.3	101.2	77.4	61.5	58.6	65.5
77.5°	197.5	100.2	71.5	55.6	43.7	62.5	67.5	40.7	35.7	34.7	39.7
80°	120.1	46.6	30.8	26.8	14.9	22.8	26.8	16.9	18.9	19.8	23.8
82.5°	60.5	12.9	5.0	1.0	0.0	0.0	7.9	4.0	7.9	9.9	14.9
85°	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	5.0	8.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8
2.5°	1808.2	1849.9	1889.6	1953.1	2018.6	2083.1	2148.6	2212.1	2234.9	2251.8	2289.5
5°	1599.8	1678.2	1769.5	1895.5	2030.5	2169.4	2310.4	2439.4	2497.9	2537.6	2626.9
7.5°	1384.4	1486.6	1617.6	1807.2	2018.6	2239.9	2461.2	2664.7	2758.9	2835.4	2971.3
10°	1171.1	1282.2	1447.9	1664.3	1950.1	2267.7	2573.4	2853.2	2975.3	3071.5	3256.1
12.5°	983.5	1087.7	1261.4	1500.5	1842.9	2245.9	2637.9	2974.3	3118.2	3226.4	3428.8
15°	851.5	924.9	1078.8	1336.8	1715.9	2175.4	2641.8	3031.9	3189.6	3302.8	3478.4
17.5°	778.1	802.9	903.1	1170.1	1575.0	2083.1	2605.1	3051.7	3220.4	3325.6	3447.7
20°	738.4	742.3	770.1	953.7	1394.4	1996.8	2570.4	3071.5	3249.2	3337.5	3374.2
22.5°	706.6	706.6	713.6	780.0	1161.1	1893.5	2559.5	3106.3	3288.9	3343.5	3268.0
25°	677.8	677.8	679.8	697.7	920.0	1735.7	2552.5	3159.9	3343.5	3358.4	3150.9
27.5°	648.1	649.0	649.0	659.0	741.3	1521.4	2522.7	3229.3	3409.0	3378.2	3038.8
30°	618.3	620.3	620.3	627.2	656.0	1270.3	2464.2	3312.7	3494.3	3404.0	2927.6
32.5°	588.5	590.5	590.5	596.4	617.3	1014.3	2390.7	3389.1	3580.7	3414.9	2824.4
35°	557.7	560.7	558.7	566.7	588.5	806.8	2297.5	3465.5	3673.9	3449.7	2773.8
37.5°	527.0	529.0	528.0	535.9	560.7	696.7	2189.3	3523.1	3801.0	3527.1	2834.4
40°	496.2	495.2	495.2	504.2	530.9	664.9	2053.3	3614.4	3983.6	3663.0	3098.3
42.5°	464.5	464.5	462.5	472.4	505.1	641.1	1923.3	3778.2	4249.6	3879.4	3566.8
45°	435.7	434.7	430.7	439.6	480.3	599.4	1877.7	4083.8	4642.6	4229.7	4133.4
47.5°	407.9	406.9	397.0	404.9	450.6	561.7	2048.4	4584.0	5187.4	4744.8	4664.4
50°	383.1	384.1	365.2	372.2	420.8	532.9	2418.5	5233.0	5910.9	5438.5	5167.5
52.5°	360.2	360.2	335.4	339.4	384.1	507.1	2770.8	5936.7	6865.6	6406.1	5754.1
55°	337.4	335.4	307.7	309.6	347.3	470.4	2823.4	6623.4	8167.6	7862.0	6555.9
57.5°	311.6	307.7	281.8	281.8	313.6	443.6	2447.3	7151.4	9783.3	10001.6	7712.1
60°	279.9	276.9	260.0	255.1	286.8	467.4	1726.8	7212.9	10825.3	12846.9	9926.2
62.5°	239.2	243.1	234.2	227.3	261.0	485.3	1023.2	6717.7	10573.3	13752.0	12578.0
65°	188.6	204.4	202.5	197.5	286.8	408.9	604.4	5767.0	9800.2	13021.6	12037.1
67.5°	160.8	171.7	168.7	168.7	300.7	310.6	380.1	4505.6	8736.3	12155.2	10751.9
70°	137.0	147.9	137.0	137.0	227.3	188.6	263.0	3146.0	7588.1	11196.5	9908.4
72.5°	113.1	124.1	112.1	104.2	181.6	140.9	192.5	1966.0	6498.4	10198.1	9330.8
75°	86.3	99.2	90.3	80.4	120.1	105.2	145.9	1142.3	5383.9	8725.4	8508.0
77.5°	54.6	71.5	67.5	56.6	88.3	76.4	105.2	679.8	4154.3	6817.9	7318.1
80°	33.7	36.7	37.7	35.7	50.6	51.6	71.5	387.0	2843.3	4751.7	5717.3
82.5°	21.8	21.8	16.9	18.9	24.8	29.8	40.7	145.9	1671.2	2892.9	3979.6
85°	15.9	13.9	8.9	8.9	11.9	14.9	15.9	44.7	677.8	1142.3	1556.1
87.5°	7.9	6.9	3.0	4.0	6.0	5.0	4.0	2.0	170.7	365.2	256.0
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):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8	1994.8
2.5°	2309.4	2340.1	2342.1	2342.1	2315.3	2314.3	2259.7	2253.8
5°	2719.2	2739.1	2744.0	2734.1	2680.5	2640.8	2534.6	2511.8
7.5°	3094.4	3134.1	3134.1	3110.3	3022.9	2941.5	2787.7	2730.2
10°	3394.1	3439.7	3429.8	3381.2	3271.0	3158.9	2972.3	2896.9
12.5°	3540.0	3586.6	3560.8	3505.2	3398.1	3280.0	3083.5	2998.1
15°	3537.0	3524.1	3497.3	3490.4	3438.7	3349.4	3165.8	3072.5
17.5°	3411.0	3301.8	3281.0	3350.4	3415.9	3394.1	3237.3	3150.0
20°	3211.5	3020.9	3002.1	3135.1	3321.6	3416.9	3303.8	3223.4
22.5°	3001.1	2795.7	2752.0	2898.9	3179.7	3423.9	3388.1	3307.7
25°	2801.6	2595.2	2551.5	2688.5	3021.9	3411.9	3479.4	3411.0
27.5°	2634.9	2435.4	2394.7	2531.7	2870.1	3378.2	3570.7	3522.1
30°	2505.9	2321.3	2291.5	2423.5	2739.1	3336.5	3686.9	3660.1
32.5°	2430.4	2295.5	2306.4	2414.6	2668.6	3290.9	3798.0	3810.9
35°	2504.9	2510.8	2606.1	2650.8	2734.1	3283.9	3948.9	3999.5
37.5°	2875.0	3081.5	3279.0	3242.2	3054.7	3364.3	4174.1	4268.4
40°	3505.2	3929.0	4249.6	4109.6	3637.2	3610.4	4498.7	4639.6
42.5°	4275.4	4993.9	5521.8	5146.7	4388.5	4041.1	4962.1	5141.7
45°	5088.2	6306.8	7138.5	6358.5	5189.4	4644.5	5663.8	5804.7
47.5°	5944.6	7902.7	8978.5	7702.2	5931.7	5331.3	6620.5	6653.2
50°	6881.5	9652.3	10854.1	9044.9	6648.2	6118.3	7789.5	7751.8
52.5°	7773.6	11451.6	12690.1	10393.6	7277.4	7094.8	9146.2	9068.8
55°	8625.1	13249.8	14537.0	11689.7	7870.9	8385.0	10757.9	10289.4
57.5°	9612.6	14866.5	16440.5	12991.8	8700.6	10060.2	12560.1	10998.0
60°	11072.5	16703.5	18593.0	14776.2	10278.5	11820.7	13206.2	10863.1
62.5°	12936.2	18392.6	20158.1	16524.8	11863.4	12152.2	12254.4	9823.0
65°	13298.5	18820.3	20246.4	16992.3	11659.0	10308.3	10004.6	7895.7
67.5°	12337.8	18047.2	19011.8	16121.9	10313.3	7966.2	7507.7	5728.3
70°	11260.0	16573.5	16860.3	14642.2	9070.7	5859.3	5070.3	3675.9
72.5°	10155.5	14607.5	14014.0	12715.9	7972.1	4266.4	3657.1	2613.0
75°	8843.5	12022.2	11038.7	10565.3	6600.6	3348.4	2645.8	1803.2
77.5°	7081.9	8462.4	8199.4	8189.5	4960.1	2446.3	1765.5	1130.4
80°	4995.9	5492.1	5358.1	6167.9	3327.6	1774.5	1062.9	629.2
82.5°	2418.5	3036.8	3117.2	3673.0	1618.6	1044.0	245.1	137.0
85°	946.8	1464.8	1235.6	1394.4	454.5	290.8	6.0	0.0
87.5°	106.2	169.7	155.8	123.1	55.6	11.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)