

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: P950217

Luminaire Tested: **GALN-SB4D-727-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950217
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-727-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 28870 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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



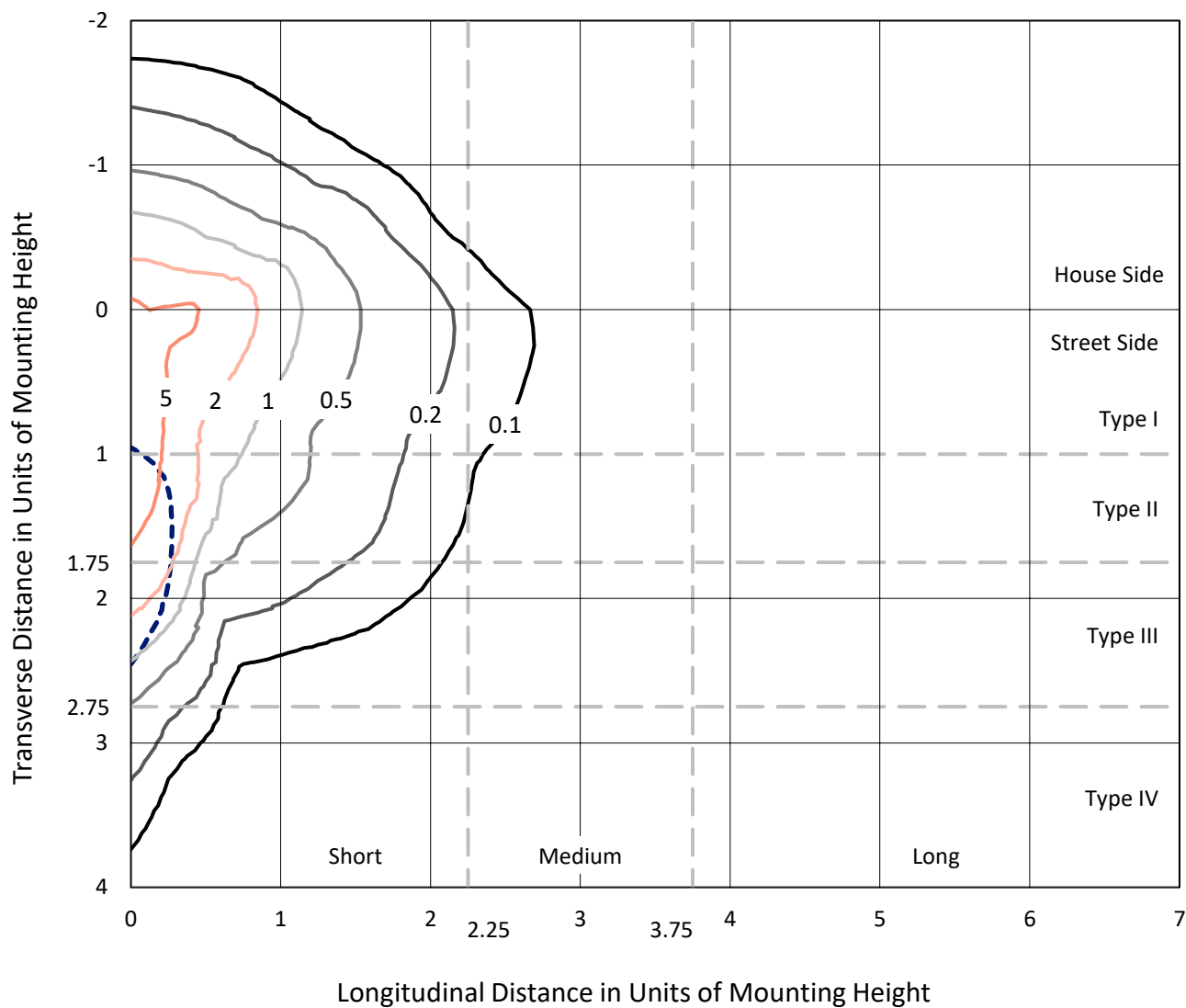
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

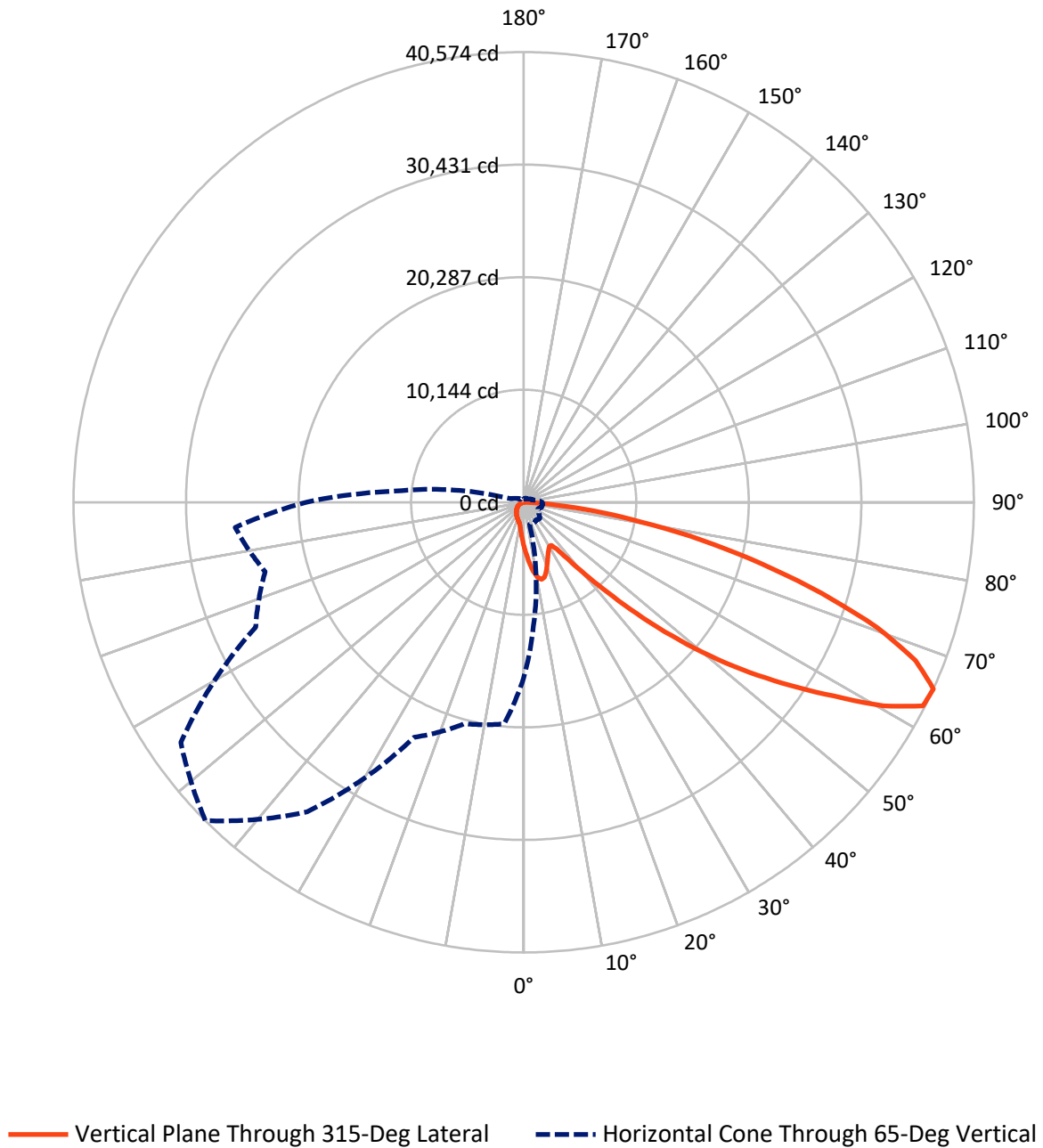
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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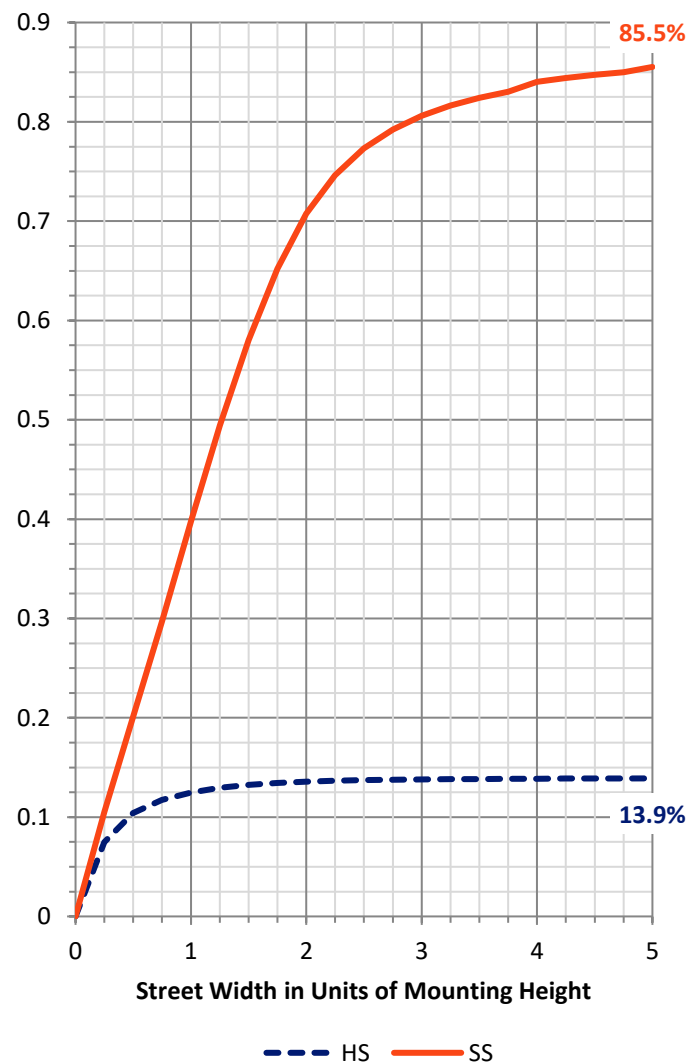
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4043.0	0.0	4043.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24827.0	0.0	24827.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	28870.0	0.0	28870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.6	1.4
10°-20°	1179.8	4.1
20°-30°	1738.1	6.0
30°-40°	2233.0	7.7
40°-50°	3611.4	12.5
50°-60°	6333.0	21.9
60°-70°	7924.3	27.4
70°-80°	4630.6	16.0
80°-90°	826.2	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°	28870.0	100.0
0°-180°	28870.0	100.0

Coefficient of Utilization



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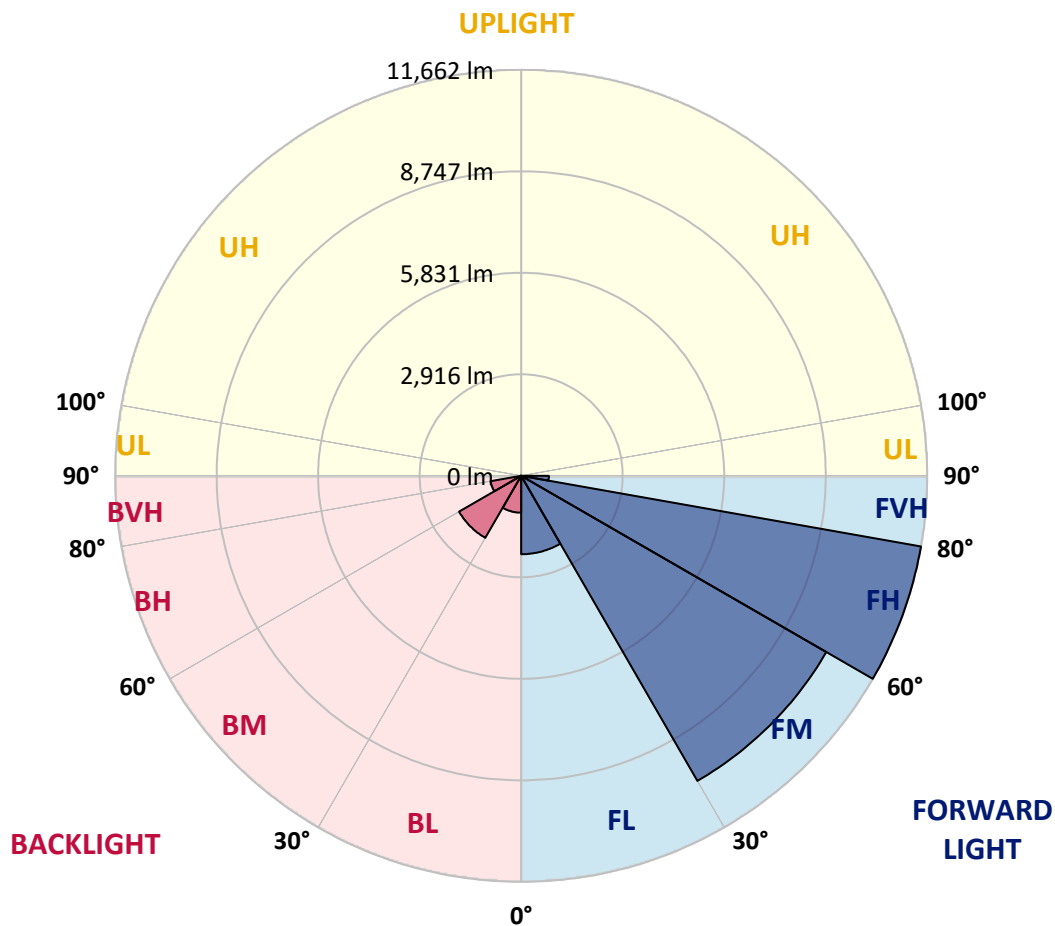
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2251.8	7.8			
FM	(30°-60°)	10118.6	35.0			
FH	(60°-80°)	11662.2	40.4			G4/12000
FVH	(80°-90°)	794.4	2.8			G5
BL	(0°-30°)	1059.7	3.7	B3/2500		
BM	(30°-60°)	2058.8	7.1	B2/2500		
BH	(60°-80°)	892.7	3.1	B2/1000		G2/1000
BVH	(80°-90°)	31.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6
2.5°	4516.7	4439.1	4393.4	4280.0	4166.6	4075.1	3951.8	3870.3	3772.8	3679.4	3595.8
5°	5033.8	4908.5	4757.3	4550.5	4361.5	4168.6	3981.7	3796.7	3601.8	3422.8	3313.4
7.5°	5471.3	5290.3	5023.8	4749.4	4508.7	4276.0	4057.2	3812.6	3575.9	3295.5	3146.3
10°	5805.4	5574.7	5224.7	4864.7	4588.3	4353.6	4140.8	3933.9	3695.3	3357.2	3170.2
12.5°	6008.3	5761.7	5346.0	4924.4	4608.1	4345.6	4180.5	4089.1	3995.6	3659.5	3440.7
15°	6157.5	5890.9	5431.5	4966.1	4562.4	4240.2	4118.9	4210.4	4317.8	4103.0	3850.4
17.5°	6312.6	6032.2	5542.9	4984.0	4439.1	4035.4	3983.6	4220.3	4468.9	4459.0	4208.4
20°	6459.8	6181.3	5640.4	4972.1	4240.2	3786.8	3832.5	4134.8	4423.2	4544.5	4409.3
22.5°	6628.8	6334.5	5733.8	4926.4	3981.7	3554.1	3697.3	3999.6	4252.1	4395.3	4353.6
25°	6835.6	6527.4	5865.1	4858.7	3703.2	3361.1	3560.0	3842.4	4047.3	4146.7	4144.7
27.5°	7058.4	6758.1	6040.1	4822.9	3478.5	3223.9	3404.9	3655.5	3838.5	3908.1	3908.1
30°	7334.8	7026.6	6247.0	4783.2	3331.3	3144.4	3243.8	3438.7	3617.7	3687.3	3687.3
32.5°	7637.2	7324.9	6445.8	4687.7	3241.8	3084.7	3086.7	3210.0	3373.1	3456.6	3468.5
35°	8015.0	7682.9	6658.6	4478.9	3170.2	3015.1	2933.5	2993.2	3128.4	3227.9	3253.7
37.5°	8554.0	8152.3	6919.2	4180.5	3064.8	2907.7	2772.4	2786.4	2889.8	2999.2	3038.9
40°	9297.8	8782.7	7225.5	3870.3	2913.7	2756.5	2595.4	2589.5	2665.0	2772.4	2816.2
42.5°	10304.2	9616.0	7593.4	3573.9	2768.5	2573.6	2408.5	2398.5	2458.2	2551.7	2597.4
45°	11632.7	10682.1	8044.9	3319.4	2655.1	2394.6	2231.5	2227.5	2277.2	2358.8	2406.5
47.5°	13333.2	12163.8	8496.3	3146.3	2595.4	2253.4	2086.3	2094.3	2138.0	2211.6	2245.4
50°	15534.8	14094.9	8633.6	3058.8	2595.4	2177.8	1957.0	1996.8	2032.6	2088.3	2108.2
52.5°	18174.0	15948.5	8180.1	2979.3	2611.3	2187.7	1847.6	1933.2	1959.0	2006.7	2014.7
55°	20620.3	16857.4	7032.5	2869.9	2615.3	2249.4	1754.2	1881.4	1929.2	1947.1	1945.1
57.5°	22040.3	16545.2	5686.1	2684.9	2599.4	2291.1	1694.5	1817.8	1909.3	1921.2	1903.3
60°	21769.9	15449.3	4186.5	2543.7	2482.1	2275.2	1676.6	1720.3	1865.5	1883.4	1859.6
62.5°	19685.6	13611.6	2905.7	2434.3	2223.5	2205.6	1670.6	1567.2	1770.1	1813.8	1780.0
65°	15823.2	10715.9	2052.5	2096.2	1949.1	2054.5	1638.8	1408.1	1654.7	1714.4	1662.7
67.5°	11479.6	7251.3	1481.7	1698.5	1766.1	1809.8	1567.2	1292.7	1523.5	1603.0	1535.4
70°	7366.7	3916.0	1040.2	1121.7	1487.7	1537.4	1443.9	1189.3	1390.2	1481.7	1408.1
72.5°	5236.6	2313.0	747.8	785.6	1195.3	1280.8	1270.9	1074.0	1235.1	1346.4	1258.9
75°	3613.7	1274.8	505.2	560.9	867.1	1040.2	980.5	922.8	1046.1	1159.5	1074.0
77.5°	2265.3	570.8	302.3	389.8	568.8	817.4	672.2	714.0	815.4	920.8	831.3
80°	1260.9	220.8	169.1	258.5	310.3	594.7	371.9	459.4	600.6	676.2	604.6
82.5°	274.5	27.8	75.6	111.4	121.3	346.1	196.9	266.5	377.9	371.9	322.2
85°	0.0	0.0	13.9	15.9	8.0	149.2	71.6	87.5	123.3	115.4	87.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	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°	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6
2.5°	3579.9	3482.5	3410.9	3375.1	3345.2	3373.1	3389.0	3389.0	3456.6	3496.4	3512.3
5°	3243.8	3068.8	2935.5	2846.0	2792.3	2810.2	2830.1	2852.0	2937.5	2995.2	3033.0
7.5°	3011.1	2742.6	2539.8	2414.5	2348.8	2358.8	2372.7	2390.6	2474.1	2531.8	2581.5
10°	2967.4	2581.5	2295.1	2130.0	2050.5	2036.6	2028.6	2022.7	2072.4	2116.1	2155.9
12.5°	3146.3	2589.5	2189.7	1988.8	1891.4	1849.6	1801.9	1764.1	1772.1	1799.9	1849.6
15°	3466.6	2690.9	2155.9	1915.3	1793.9	1724.3	1668.6	1622.9	1613.0	1622.9	1630.8
17.5°	3832.5	2828.1	2151.9	1851.6	1700.5	1628.9	1583.1	1541.4	1527.4	1529.4	1539.4
20°	4075.1	2937.5	2140.0	1780.0	1611.0	1547.3	1507.5	1465.8	1451.9	1455.8	1457.8
22.5°	4099.0	2995.2	2122.1	1700.5	1521.5	1467.8	1428.0	1390.2	1388.2	1388.2	1400.1
25°	3969.7	2995.2	2084.3	1628.9	1435.9	1388.2	1352.4	1306.7	1314.6	1318.6	1334.5
27.5°	3768.9	2923.6	2012.7	1571.2	1362.4	1312.6	1276.8	1235.1	1245.0	1251.0	1268.9
30°	3570.0	2832.1	1927.2	1505.6	1292.7	1235.1	1209.2	1173.4	1177.4	1185.3	1205.2
32.5°	3385.0	2734.7	1825.8	1451.9	1223.1	1165.5	1145.6	1105.8	1111.8	1119.7	1141.6
35°	3202.0	2627.3	1706.4	1388.2	1159.5	1101.8	1085.9	1040.2	1044.1	1056.1	1079.9
37.5°	3005.1	2513.9	1609.0	1324.6	1097.8	1038.2	1022.3	974.5	978.5	992.4	1020.3
40°	2798.3	2402.5	1513.5	1256.9	1032.2	972.5	958.6	906.9	910.9	926.8	956.6
42.5°	2589.5	2281.2	1439.9	1169.4	964.6	900.9	887.0	839.3	845.3	863.2	893.0
45°	2396.6	2136.0	1392.2	1072.0	900.9	829.3	815.4	771.7	783.6	803.5	833.3
47.5°	2231.5	1986.9	1372.3	990.4	833.3	755.8	743.8	708.0	727.9	749.8	773.7
50°	2090.3	1843.7	1346.4	906.9	769.7	692.1	680.2	656.3	682.2	704.0	725.9
52.5°	1988.8	1680.6	1290.8	831.3	714.0	638.4	634.4	622.5	646.4	666.3	686.2
55°	1901.3	1511.5	1201.3	765.7	664.3	592.7	596.7	590.7	610.6	626.5	644.4
57.5°	1821.8	1364.3	1087.9	714.0	610.6	552.9	564.8	556.9	566.8	576.8	598.6
60°	1726.3	1215.2	952.7	656.3	546.9	513.1	527.0	505.2	503.2	507.2	513.1
62.5°	1585.1	1014.3	811.4	584.7	491.2	469.4	475.3	433.6	401.7	401.7	407.7
65°	1388.2	815.4	680.2	505.2	427.6	409.7	405.7	346.1	302.3	298.3	316.2
67.5°	1159.5	670.2	564.8	425.6	356.0	344.1	348.0	304.3	260.5	256.6	276.4
70°	944.7	554.9	455.4	340.1	274.5	286.4	304.3	260.5	218.8	212.8	230.7
72.5°	767.7	441.5	356.0	260.5	202.9	236.7	258.5	212.8	173.0	169.1	185.0
75°	592.7	324.2	254.6	177.0	147.2	183.0	202.9	155.1	123.3	117.3	131.3
77.5°	395.8	200.9	143.2	111.4	87.5	125.3	135.2	81.5	71.6	69.6	79.6
80°	240.6	93.5	61.7	53.7	29.8	45.7	53.7	33.8	37.8	39.8	47.7
82.5°	121.3	25.9	9.9	2.0	0.0	0.0	15.9	8.0	15.9	19.9	29.8
85°	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	9.9	17.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.0
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°	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6
2.5°	3623.7	3707.2	3786.8	3914.0	4045.3	4174.6	4305.8	4433.1	4478.9	4512.7	4588.3
5°	3206.0	3363.1	3546.1	3798.7	4069.2	4347.6	4630.0	4888.6	5005.9	5085.5	5264.5
7.5°	2774.4	2979.3	3241.8	3621.7	4045.3	4488.8	4932.3	5340.0	5529.0	5682.1	5954.6
10°	2346.8	2569.6	2901.7	3335.3	3908.1	4544.5	5157.1	5717.9	5962.5	6155.5	6525.4
12.5°	1970.9	2179.8	2527.8	3007.1	3693.3	4500.7	5286.3	5960.6	6248.9	6465.7	6871.4
15°	1706.4	1853.6	2161.9	2679.0	3438.7	4359.5	5294.3	6075.9	6392.1	6618.9	6970.9
17.5°	1559.3	1609.0	1809.8	2344.8	3156.3	4174.6	5220.7	6115.7	6453.8	6664.6	6909.2
20°	1479.7	1487.7	1543.3	1911.3	2794.3	4001.5	5151.1	6155.5	6511.5	6688.5	6762.1
22.5°	1416.1	1416.1	1430.0	1563.2	2326.9	3794.7	5129.2	6225.1	6591.0	6700.4	6549.3
25°	1358.4	1358.4	1362.4	1398.2	1843.7	3478.5	5115.3	6332.5	6700.4	6730.2	6314.6
27.5°	1298.7	1300.7	1300.7	1320.6	1485.7	3048.9	5055.6	6471.7	6831.7	6770.0	6089.8
30°	1239.0	1243.0	1243.0	1256.9	1314.6	2545.7	4938.3	6638.8	7002.7	6821.7	5867.1
32.5°	1179.4	1183.4	1183.4	1195.3	1237.1	2032.6	4791.1	6791.9	7175.7	6843.6	5660.2
35°	1117.7	1123.7	1119.7	1135.6	1179.4	1616.9	4604.2	6945.0	7362.7	6913.2	5558.8
37.5°	1056.1	1060.1	1058.1	1074.0	1123.7	1396.2	4387.4	7060.4	7617.3	7068.3	5680.1
40°	994.4	992.4	992.4	1010.3	1064.0	1332.5	4114.9	7243.4	7983.2	7340.8	6209.2
42.5°	930.8	930.8	926.8	946.7	1012.3	1284.8	3854.4	7571.5	8516.2	7774.4	7147.9
45°	873.1	871.1	863.2	881.1	962.6	1201.3	3762.9	8184.1	9303.8	8476.4	8283.5
47.5°	817.4	815.4	795.5	811.4	902.9	1125.7	4105.0	9186.5	10395.7	9508.7	9347.6
50°	767.7	769.7	731.9	745.8	843.3	1068.0	4846.8	10487.2	11845.5	10898.9	10355.9
52.5°	721.9	721.9	672.2	680.2	769.7	1016.3	5552.8	11897.2	13758.8	12838.0	11531.3
55°	676.2	672.2	616.5	620.5	696.1	942.7	5658.3	13273.5	16368.2	15755.6	13138.3
57.5°	624.5	616.5	564.8	564.8	628.5	889.0	4904.5	14331.6	19606.0	20043.5	15455.3
60°	560.9	554.9	521.1	511.1	574.8	936.7	3460.6	14454.9	21694.3	25745.6	19892.4
62.5°	479.3	487.3	469.4	455.4	523.1	972.5	2050.5	13462.5	21189.1	27559.4	25206.6
65°	377.9	409.7	405.7	395.8	574.8	819.4	1211.2	11557.2	19639.8	26095.6	24122.7
67.5°	322.2	344.1	338.1	338.1	602.6	622.5	761.7	9029.3	17507.8	24359.3	21547.1
70°	274.5	296.3	274.5	274.5	455.4	377.9	527.0	6304.6	15206.7	22438.1	19856.6
72.5°	226.7	248.6	224.7	208.8	364.0	282.4	385.8	3939.9	13022.9	20437.3	18699.1
75°	173.0	198.9	181.0	161.1	240.6	210.8	292.4	2289.2	10789.5	17485.9	17050.3
77.5°	109.4	143.2	135.2	113.4	177.0	153.1	210.8	1362.4	8325.3	13663.3	14665.7
80°	67.6	73.6	75.6	71.6	101.4	103.4	143.2	775.6	5698.0	9522.6	11457.7
82.5°	43.8	43.8	33.8	37.8	49.7	59.7	81.5	292.4	3349.2	5797.5	7975.3
85°	31.8	27.8	17.9	17.9	23.9	29.8	31.8	89.5	1358.4	2289.2	3118.5
87.5°	15.9	13.9	6.0	8.0	11.9	9.9	8.0	4.0	342.1	731.9	513.1
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°	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6	3997.6
2.5°	4628.0	4689.7	4693.7	4693.7	4640.0	4638.0	4528.6	4516.7
5°	5449.4	5489.2	5499.1	5479.3	5371.9	5292.3	5079.5	5033.8
7.5°	6201.2	6280.8	6280.8	6233.0	6058.0	5894.9	5586.7	5471.3
10°	6801.8	6893.3	6873.4	6776.0	6555.2	6330.5	5956.6	5805.4
12.5°	7094.2	7187.7	7136.0	7024.6	6809.8	6573.1	6179.3	6008.3
15°	7088.2	7062.4	7008.7	6994.8	6891.3	6712.3	6344.4	6157.5
17.5°	6835.6	6616.9	6575.1	6714.3	6845.6	6801.8	6487.6	6312.6
20°	6435.9	6054.0	6016.2	6282.8	6656.7	6847.6	6620.9	6459.8
22.5°	6014.3	5602.6	5515.1	5809.4	6372.2	6861.5	6789.9	6628.8
25°	5614.5	5200.8	5113.3	5387.8	6056.0	6837.6	6972.9	6835.6
27.5°	5280.4	4880.6	4799.1	5073.5	5751.7	6770.0	7155.9	7058.4
30°	5021.8	4651.9	4592.2	4856.8	5489.2	6686.5	7388.5	7334.8
32.5°	4870.7	4600.2	4622.1	4838.9	5348.0	6595.0	7611.3	7637.2
35°	5019.8	5031.8	5222.7	5312.2	5479.3	6581.1	7913.6	8015.0
37.5°	5761.7	6175.4	6571.1	6497.5	6121.7	6742.2	8365.1	8554.0
40°	7024.6	7873.8	8516.2	8235.8	7289.1	7235.4	9015.4	9297.8
42.5°	8567.9	10007.8	11065.9	10314.1	8794.7	8098.6	9944.2	10304.2
45°	10196.8	12639.1	14305.7	12742.5	10399.7	9307.8	11350.3	11632.7
47.5°	11913.2	15837.1	17993.0	15435.4	11887.3	10684.1	13267.6	13333.2
50°	13790.6	19343.5	21752.0	18126.3	13323.2	12261.2	15610.4	15534.8
52.5°	15578.6	22949.2	25431.3	20829.1	14584.2	14218.2	18329.2	18174.0
55°	17285.0	26553.0	29132.5	23426.6	15773.5	16803.7	21559.0	20620.3
57.5°	19263.9	29792.8	32947.1	26035.9	17436.2	20160.9	25170.8	22040.3
60°	22189.5	33474.2	37260.9	29611.9	20598.4	23689.1	26465.5	21769.9
62.5°	25924.5	36859.2	40397.3	33116.2	23774.6	24353.4	24558.2	19685.6
65°	26650.5	37716.4	40574.4	34052.9	23364.9	20658.1	20049.5	15823.2
67.5°	24725.3	36167.1	38100.2	32308.7	20668.0	15964.4	15045.6	11479.6
70°	22565.4	33213.7	33788.4	29343.4	18178.0	11742.1	10161.0	7366.7
72.5°	20351.8	29273.8	28084.4	25483.0	15976.4	8550.0	7328.9	5236.6
75°	17722.6	24092.8	22121.9	21173.2	13227.8	6710.4	5302.3	3613.7
77.5°	14192.4	16958.9	16431.8	16411.9	9940.2	4902.5	3538.1	2265.3
80°	10011.8	11006.2	10737.8	12360.6	6668.6	3556.0	2130.0	1260.9
82.5°	4846.8	6085.9	6247.0	7360.7	3243.8	2092.3	491.2	274.5
85°	1897.4	2935.5	2476.1	2794.3	910.9	582.7	11.9	0.0
87.5°	212.8	340.1	312.2	246.6	111.4	23.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)