

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: P951309

Luminaire Tested: **GALN-SB5C-730-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951309
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-SB5C-730-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 28872 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.5
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



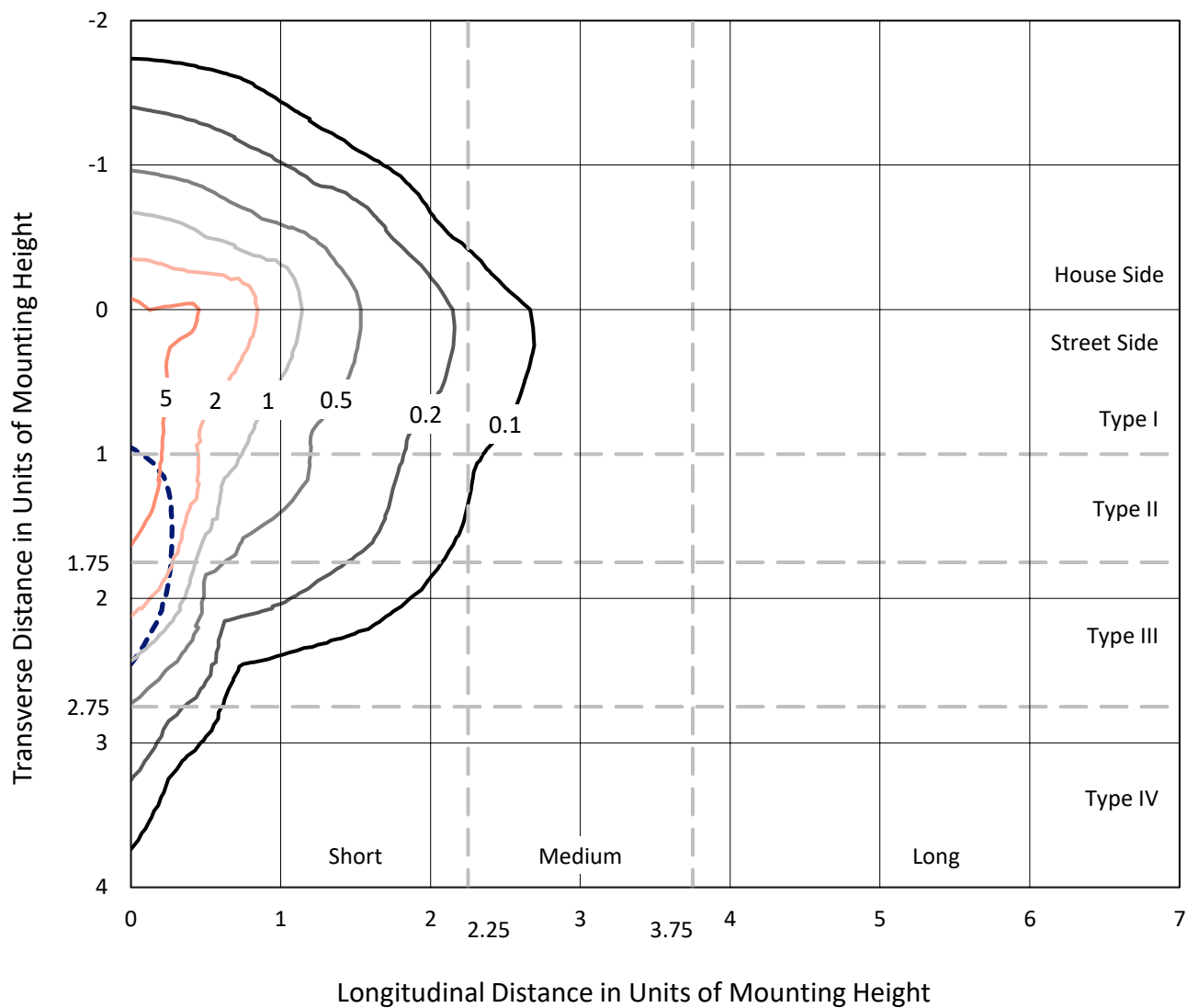
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

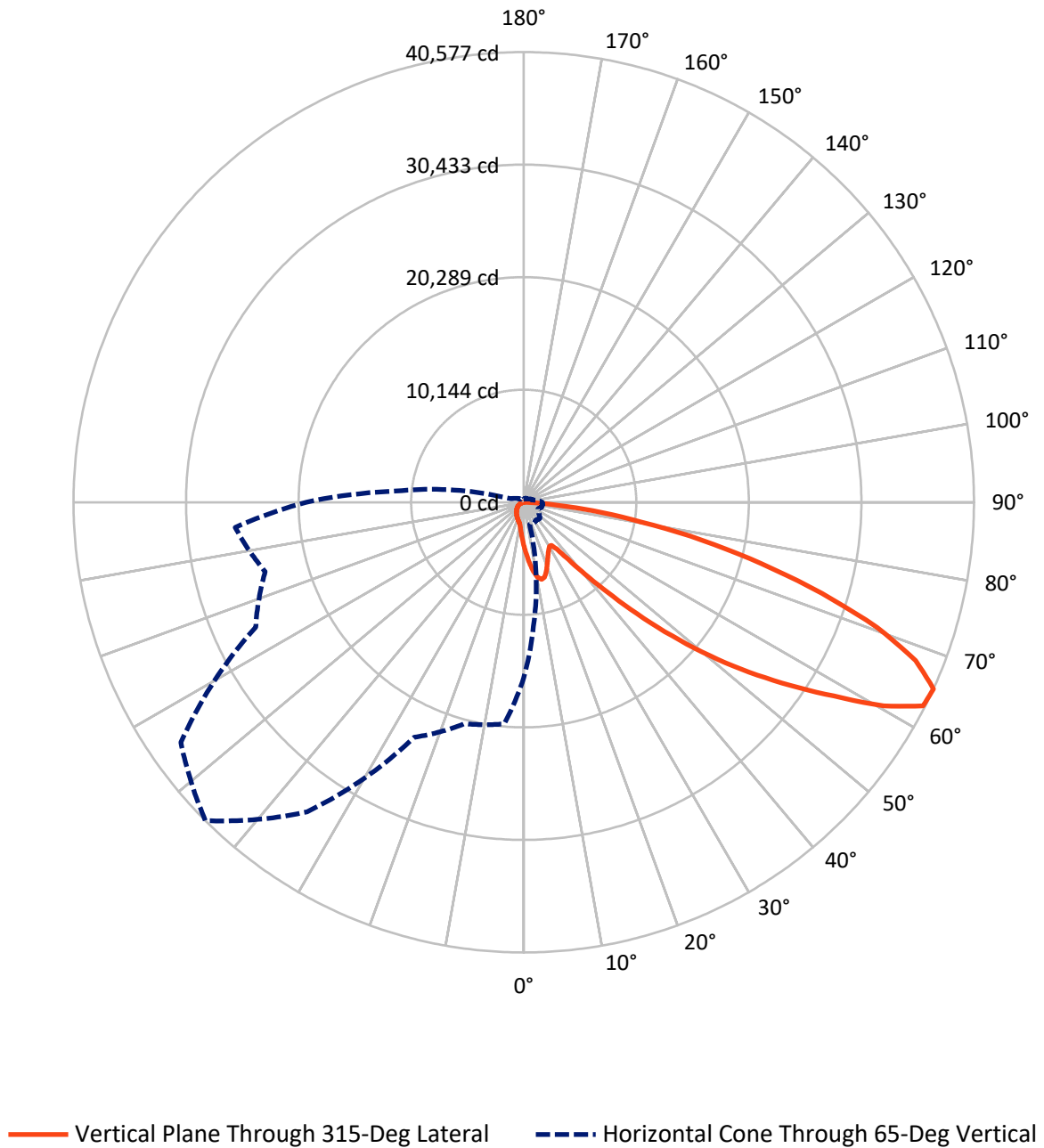
--- 1/2 Max cd



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	4043.3	0.0	4043.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24828.7	0.0	24828.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	28872.0	0.0	28872.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.6	1.4
10°-20°	1179.9	4.1
20°-30°	1738.2	6.0
30°-40°	2233.2	7.7
40°-50°	3611.7	12.5
50°-60°	6333.4	21.9
60°-70°	7924.9	27.4
70°-80°	4630.9	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°	28872.0	100.0
0°-180°	28872.0	100.0

Coefficient of Utilization



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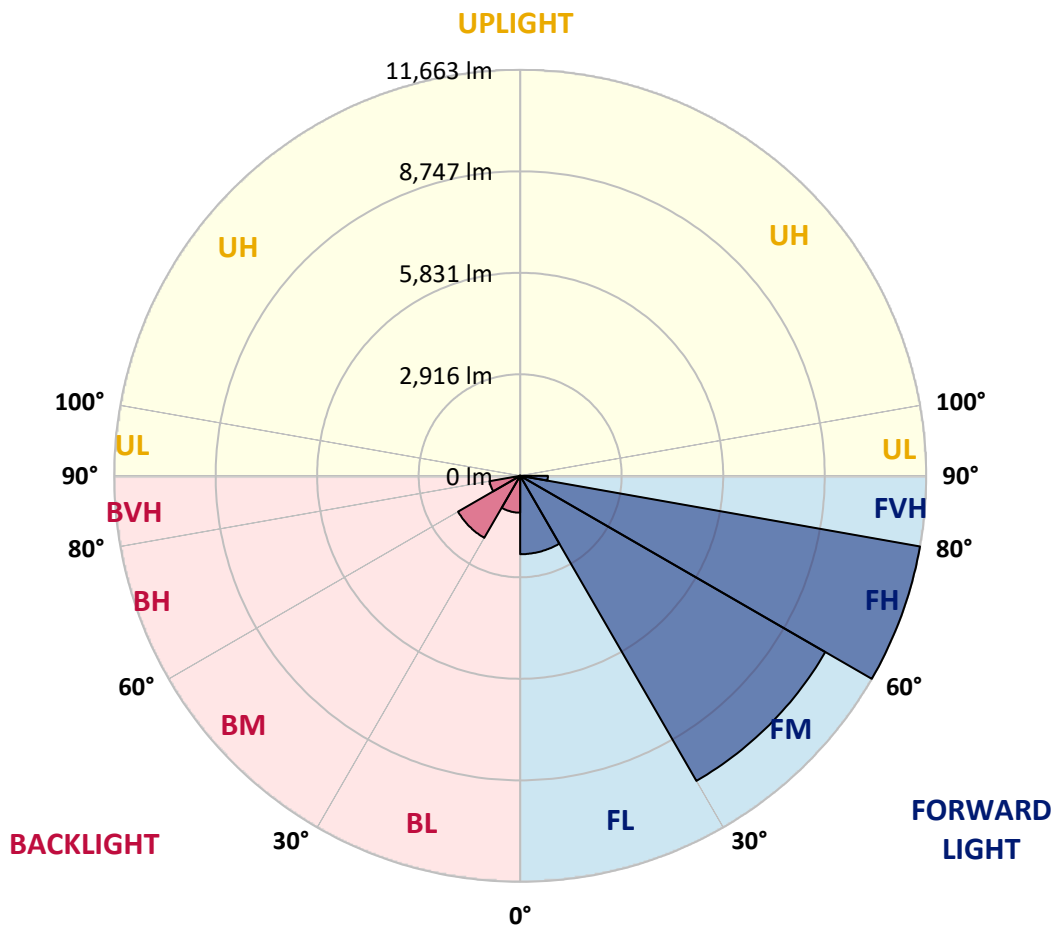
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2251.9	7.8			
FM	(30°-60°)	10119.3	35.0			
FH	(60°-80°)	11663.0	40.4			G4/12000
FVH	(80°-90°)	794.5	2.8			G5
BL	(0°-30°)	1059.8	3.7	B3/2500		
BM	(30°-60°)	2059.0	7.1	B2/2500		
BH	(60°-80°)	892.8	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°	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8
2.5°	4517.0	4439.4	4393.7	4280.3	4166.9	4075.4	3952.1	3870.6	3773.1	3679.6	3596.1
5°	5034.1	4908.8	4757.6	4550.8	4361.8	4168.9	3981.9	3797.0	3602.0	3423.0	3313.6
7.5°	5471.7	5290.7	5024.2	4749.7	4509.0	4276.3	4057.5	3812.9	3576.2	3295.7	3146.6
10°	5805.8	5575.1	5225.0	4865.0	4588.6	4353.9	4141.1	3934.2	3695.5	3357.4	3170.4
12.5°	6008.7	5762.1	5346.4	4924.7	4608.5	4345.9	4180.8	4089.3	3995.9	3659.7	3440.9
15°	6157.9	5891.4	5431.9	4966.5	4562.7	4240.5	4119.2	4210.7	4318.1	4103.3	3850.7
17.5°	6313.0	6032.6	5543.3	4984.4	4439.4	4035.6	3983.9	4220.6	4469.2	4459.3	4208.7
20°	6460.2	6181.7	5640.7	4972.4	4240.5	3787.0	3832.8	4135.1	4423.5	4544.8	4409.6
22.5°	6629.3	6334.9	5734.2	4926.7	3981.9	3554.3	3697.5	3999.8	4252.4	4395.6	4353.9
25°	6836.1	6527.8	5865.5	4859.1	3703.5	3361.4	3560.3	3842.7	4047.6	4147.0	4145.0
27.5°	7058.9	6758.6	6040.5	4823.3	3478.7	3224.1	3405.1	3655.7	3838.7	3908.3	3908.3
30°	7335.4	7027.1	6247.4	4783.5	3331.5	3144.6	3244.0	3438.9	3618.0	3687.6	3687.6
32.5°	7637.7	7325.4	6446.3	4688.0	3242.0	3084.9	3086.9	3210.2	3373.3	3456.8	3468.8
35°	8015.6	7683.4	6659.1	4479.2	3170.4	3015.3	2933.7	2993.4	3128.7	3228.1	3254.0
37.5°	8554.6	8152.8	6919.7	4180.8	3065.0	2907.9	2772.6	2786.6	2890.0	2999.4	3039.2
40°	9298.5	8783.3	7226.0	3870.6	2913.9	2756.7	2595.6	2589.7	2665.2	2772.6	2816.4
42.5°	10304.9	9616.7	7593.9	3574.2	2768.7	2573.7	2408.7	2398.7	2458.4	2551.9	2597.6
45°	11633.5	10682.8	8045.4	3319.6	2655.3	2394.7	2231.6	2227.7	2277.4	2358.9	2406.7
47.5°	13334.1	12164.6	8496.9	3146.6	2595.6	2253.5	2086.4	2094.4	2138.2	2211.7	2245.6
50°	15535.9	14095.9	8634.2	3059.0	2595.6	2177.9	1957.2	1996.9	2032.7	2088.4	2108.3
52.5°	18175.3	15949.6	8180.7	2979.5	2611.5	2187.9	1847.8	1933.3	1959.1	2006.9	2014.8
55°	20621.7	16858.6	7033.0	2870.1	2615.5	2249.5	1754.3	1881.6	1929.3	1947.2	1945.2
57.5°	22041.9	16546.3	5686.5	2685.1	2599.6	2291.3	1694.6	1817.9	1909.4	1921.4	1903.5
60°	21771.4	15450.4	4186.8	2543.9	2482.2	2275.4	1676.7	1720.5	1865.7	1883.6	1859.7
62.5°	19686.9	13612.6	2905.9	2434.5	2223.7	2205.8	1670.7	1567.3	1770.2	1813.9	1780.1
65°	15824.3	10716.6	2052.6	2096.4	1949.2	2054.6	1638.9	1408.2	1654.8	1714.5	1662.8
67.5°	11480.4	7251.8	1481.8	1698.6	1766.2	1810.0	1567.3	1292.8	1523.6	1603.1	1535.5
70°	7367.2	3916.3	1040.2	1121.8	1487.8	1537.5	1444.0	1189.4	1390.3	1481.8	1408.2
72.5°	5237.0	2313.2	747.9	785.6	1195.4	1280.9	1271.0	1074.0	1235.2	1346.5	1259.0
75°	3614.0	1274.9	505.2	560.9	867.2	1040.2	980.6	922.9	1046.2	1159.6	1074.0
77.5°	2265.4	570.8	302.3	389.8	568.8	817.5	672.3	714.0	815.5	920.9	831.4
80°	1261.0	220.8	169.1	258.6	310.3	594.7	371.9	459.5	600.7	676.3	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°	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8
2.5°	3580.2	3482.7	3411.1	3375.3	3345.5	3373.3	3389.2	3389.2	3456.8	3496.6	3512.5
5°	3244.0	3069.0	2935.7	2846.2	2792.5	2810.4	2830.3	2852.2	2937.7	2995.4	3033.2
7.5°	3011.3	2742.8	2539.9	2414.6	2349.0	2358.9	2372.9	2390.8	2474.3	2532.0	2581.7
10°	2967.6	2581.7	2295.3	2130.2	2050.6	2036.7	2028.8	2022.8	2072.5	2116.3	2156.1
12.5°	3146.6	2589.7	2189.9	1989.0	1891.5	1849.8	1802.0	1764.2	1772.2	1800.0	1849.8
15°	3466.8	2691.1	2156.1	1915.4	1794.1	1724.4	1668.8	1623.0	1613.1	1623.0	1631.0
17.5°	3832.8	2828.3	2152.1	1851.7	1700.6	1629.0	1583.2	1541.5	1527.5	1529.5	1539.5
20°	4075.4	2937.7	2140.1	1780.1	1611.1	1547.4	1507.6	1465.9	1452.0	1455.9	1457.9
22.5°	4099.3	2995.4	2122.2	1700.6	1521.6	1467.9	1428.1	1390.3	1388.3	1388.3	1400.2
25°	3970.0	2995.4	2084.5	1629.0	1436.0	1388.3	1352.5	1306.8	1314.7	1318.7	1334.6
27.5°	3769.1	2923.8	2012.8	1571.3	1362.5	1312.7	1276.9	1235.2	1245.1	1251.1	1269.0
30°	3570.2	2832.3	1927.3	1505.7	1292.8	1235.2	1209.3	1173.5	1177.5	1185.4	1205.3
32.5°	3385.2	2734.8	1825.9	1452.0	1223.2	1165.5	1145.7	1105.9	1111.8	1119.8	1141.7
35°	3202.3	2627.4	1706.5	1388.3	1159.6	1101.9	1086.0	1040.2	1044.2	1056.1	1080.0
37.5°	3005.3	2514.1	1609.1	1324.7	1097.9	1038.2	1022.3	974.6	978.6	992.5	1020.3
40°	2798.5	2402.7	1513.6	1257.0	1032.3	972.6	958.7	907.0	911.0	926.9	956.7
42.5°	2589.7	2281.4	1440.0	1169.5	964.7	901.0	887.1	839.3	845.3	863.2	893.1
45°	2396.7	2136.2	1392.3	1072.1	901.0	829.4	815.5	771.7	783.7	803.5	833.4
47.5°	2231.6	1987.0	1372.4	990.5	833.4	755.8	743.9	708.1	728.0	749.8	773.7
50°	2090.4	1843.8	1346.5	907.0	769.7	692.2	680.2	656.4	682.2	704.1	726.0
52.5°	1989.0	1680.7	1290.8	831.4	714.0	638.5	634.5	622.6	646.4	666.3	686.2
55°	1901.5	1511.6	1201.3	765.8	664.3	592.7	596.7	590.7	610.6	626.5	644.4
57.5°	1821.9	1364.4	1088.0	714.0	610.6	552.9	564.9	556.9	566.9	576.8	598.7
60°	1726.4	1215.3	952.7	656.4	547.0	513.2	527.1	505.2	503.2	507.2	513.2
62.5°	1585.2	1014.4	811.5	584.8	491.3	469.4	475.4	433.6	401.8	401.8	407.7
65°	1388.3	815.5	680.2	505.2	427.6	409.7	405.8	346.1	302.3	298.3	316.2
67.5°	1159.6	670.3	564.9	425.6	356.0	344.1	348.1	304.3	260.6	256.6	276.5
70°	944.8	554.9	455.5	340.1	274.5	286.4	304.3	260.6	218.8	212.8	230.7
72.5°	767.7	441.6	356.0	260.6	202.9	236.7	258.6	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	135.3	81.5	71.6	69.6	79.6
80°	240.7	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°	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8
2.5°	3623.9	3707.5	3787.0	3914.3	4045.6	4174.9	4306.1	4433.4	4479.2	4513.0	4588.6
5°	3206.2	3363.4	3546.3	3799.0	4069.5	4347.9	4630.3	4888.9	5006.3	5085.8	5264.8
7.5°	2774.6	2979.5	3242.0	3621.9	4045.6	4489.1	4932.7	5340.4	5529.4	5682.5	5955.0
10°	2347.0	2569.8	2901.9	3335.5	3908.3	4544.8	5157.4	5718.3	5963.0	6155.9	6525.8
12.5°	1971.1	2179.9	2528.0	3007.3	3693.5	4501.1	5286.7	5961.0	6249.4	6466.2	6871.9
15°	1706.5	1853.7	2162.0	2679.2	3438.9	4359.8	5294.7	6076.3	6392.6	6619.3	6971.4
17.5°	1559.4	1609.1	1810.0	2345.0	3156.5	4174.9	5221.1	6116.1	6454.2	6665.1	6909.7
20°	1479.8	1487.8	1543.4	1911.4	2794.5	4001.8	5151.5	6155.9	6511.9	6688.9	6762.5
22.5°	1416.2	1416.2	1430.1	1563.3	2327.1	3795.0	5129.6	6225.5	6591.5	6700.9	6549.7
25°	1358.5	1358.5	1362.5	1398.3	1843.8	3478.7	5115.7	6332.9	6700.9	6730.7	6315.0
27.5°	1298.8	1300.8	1300.8	1320.7	1485.8	3049.1	5056.0	6472.1	6832.1	6770.5	6090.3
30°	1239.1	1243.1	1243.1	1257.0	1314.7	2545.9	4938.6	6639.2	7003.2	6822.2	5867.5
32.5°	1179.5	1183.4	1183.4	1195.4	1237.1	2032.7	4791.5	6792.4	7176.2	6844.1	5660.6
35°	1117.8	1123.8	1119.8	1135.7	1179.5	1617.0	4604.5	6945.5	7363.2	6913.7	5559.2
37.5°	1056.1	1060.1	1058.1	1074.0	1123.8	1396.3	4387.7	7060.9	7617.8	7068.8	5680.5
40°	994.5	992.5	992.5	1010.4	1064.1	1332.6	4115.2	7243.9	7983.8	7341.3	6209.6
42.5°	930.8	930.8	926.9	946.8	1012.4	1284.9	3854.6	7572.0	8516.8	7774.9	7148.4
45°	873.2	871.2	863.2	881.1	962.7	1201.3	3763.1	8184.6	9304.4	8477.0	8284.1
47.5°	817.5	815.5	795.6	811.5	903.0	1125.8	4105.3	9187.1	10396.4	9509.3	9348.2
50°	767.7	769.7	731.9	745.9	843.3	1068.1	4847.1	10487.9	11846.4	10899.6	10356.6
52.5°	722.0	722.0	672.3	680.2	769.7	1016.4	5553.2	11898.1	13759.8	12838.9	11532.1
55°	676.3	672.3	616.6	620.6	696.1	942.8	5658.6	13274.4	16369.3	15756.7	13139.2
57.5°	624.5	616.6	564.9	564.9	628.5	889.1	4904.8	14332.6	19607.4	20044.9	15456.4
60°	560.9	554.9	521.1	511.2	574.8	936.8	3460.8	14455.9	21695.8	25747.3	19893.8
62.5°	479.3	487.3	469.4	455.5	523.1	972.6	2050.6	13463.4	21190.6	27561.3	25208.3
65°	377.9	409.7	405.8	395.8	574.8	819.5	1211.3	11558.0	19641.2	26097.4	24124.3
67.5°	322.2	344.1	338.1	338.1	602.7	622.6	761.8	9030.0	17509.0	24361.0	21548.6
70°	274.5	296.4	274.5	274.5	455.5	377.9	527.1	6305.1	15207.7	22439.7	19858.0
72.5°	226.7	248.6	224.8	208.8	364.0	282.4	385.9	3940.2	13023.8	20438.8	18700.4
75°	173.0	198.9	181.0	161.1	240.7	210.8	292.4	2289.3	10790.2	17487.1	17051.5
77.5°	109.4	143.2	135.3	113.4	177.0	153.2	210.8	1362.5	8325.9	13664.3	14666.7
80°	67.6	73.6	75.6	71.6	101.4	103.4	143.2	775.7	5698.4	9523.2	11458.5
82.5°	43.8	43.8	33.8	37.8	49.7	59.7	81.5	292.4	3349.4	5797.9	7975.8
85°	31.8	27.8	17.9	17.9	23.9	29.8	31.8	89.5	1358.5	2289.3	3118.7
87.5°	15.9	13.9	6.0	8.0	11.9	9.9	8.0	4.0	342.1	731.9	513.2
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°	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8	3997.8
2.5°	4628.4	4690.0	4694.0	4694.0	4640.3	4638.3	4528.9	4517.0
5°	5449.8	5489.6	5499.5	5479.6	5372.2	5292.7	5079.9	5034.1
7.5°	6201.6	6281.2	6281.2	6233.5	6058.4	5895.3	5587.0	5471.7
10°	6802.3	6893.8	6873.9	6776.5	6555.7	6330.9	5957.0	5805.8
12.5°	7094.7	7188.2	7136.5	7025.1	6810.3	6573.6	6179.8	6008.7
15°	7088.7	7062.9	7009.2	6995.2	6891.8	6712.8	6344.8	6157.9
17.5°	6836.1	6617.3	6575.6	6714.8	6846.1	6802.3	6488.1	6313.0
20°	6436.3	6054.5	6016.7	6283.2	6657.1	6848.1	6621.3	6460.2
22.5°	6014.7	5603.0	5515.4	5809.8	6372.7	6862.0	6790.4	6629.3
25°	5614.9	5201.2	5113.7	5388.1	6056.4	6838.1	6973.4	6836.1
27.5°	5280.7	4881.0	4799.4	5073.9	5752.1	6770.5	7156.3	7058.9
30°	5022.2	4652.2	4592.6	4857.1	5489.6	6686.9	7389.1	7335.4
32.5°	4871.0	4600.5	4622.4	4839.2	5348.4	6595.5	7611.8	7637.7
35°	5020.2	5032.1	5223.1	5312.6	5479.6	6581.5	7914.1	8015.6
37.5°	5762.1	6175.8	6571.6	6498.0	6122.1	6742.6	8365.6	8554.6
40°	7025.1	7874.4	8516.8	8236.4	7289.6	7235.9	9016.0	9298.5
42.5°	8568.5	10008.5	11066.7	10314.8	8795.3	8099.1	9944.9	10304.9
45°	10197.5	12640.0	14306.7	12743.4	10400.4	9308.4	11351.1	11633.5
47.5°	11914.0	15838.2	17994.3	15436.5	11888.1	10684.8	13268.5	13334.1
50°	13791.6	19344.8	21753.5	18127.6	13324.2	12262.1	15611.5	15535.9
52.5°	15579.7	22950.8	25433.1	20830.6	14585.2	14219.2	18330.4	18175.3
55°	17286.2	26554.9	29134.6	23428.2	15774.6	16804.9	21560.5	20621.7
57.5°	19265.3	29794.9	32949.4	26037.7	17437.4	20162.3	25172.5	22041.9
60°	22191.0	33476.5	37263.5	29613.9	20599.9	23690.7	26467.3	21771.4
62.5°	25926.3	36861.8	40400.1	33118.5	23776.3	24355.1	24559.9	19686.9
65°	26652.3	37719.0	40577.2	34055.3	23366.5	20659.5	20050.9	15824.3
67.5°	24727.0	36169.6	38102.9	32311.0	20669.5	15965.5	15046.6	11480.4
70°	22567.0	33216.0	33790.8	29345.4	18179.3	11742.9	10161.7	7367.2
72.5°	20353.2	29275.8	28086.4	25484.8	15977.5	8550.6	7329.4	5237.0
75°	17723.8	24094.5	22123.4	21174.7	13228.7	6710.8	5302.6	3614.0
77.5°	14193.4	16960.0	16432.9	16413.1	9940.9	4902.8	3538.4	2265.4
80°	10012.5	11007.0	10738.5	12361.5	6669.0	3556.3	2130.2	1261.0
82.5°	4847.1	6086.3	6247.4	7361.2	3244.0	2092.4	491.3	274.5
85°	1897.5	2935.7	2476.3	2794.5	911.0	582.8	11.9	0.0
87.5°	212.8	340.1	312.3	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)