

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: P951624

Luminaire Tested: **GALN-SB5D-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951624
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-SB5D-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 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: 32408 lumens
Efficiency: N/A
Efficacy: 88.8 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): 364.9
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

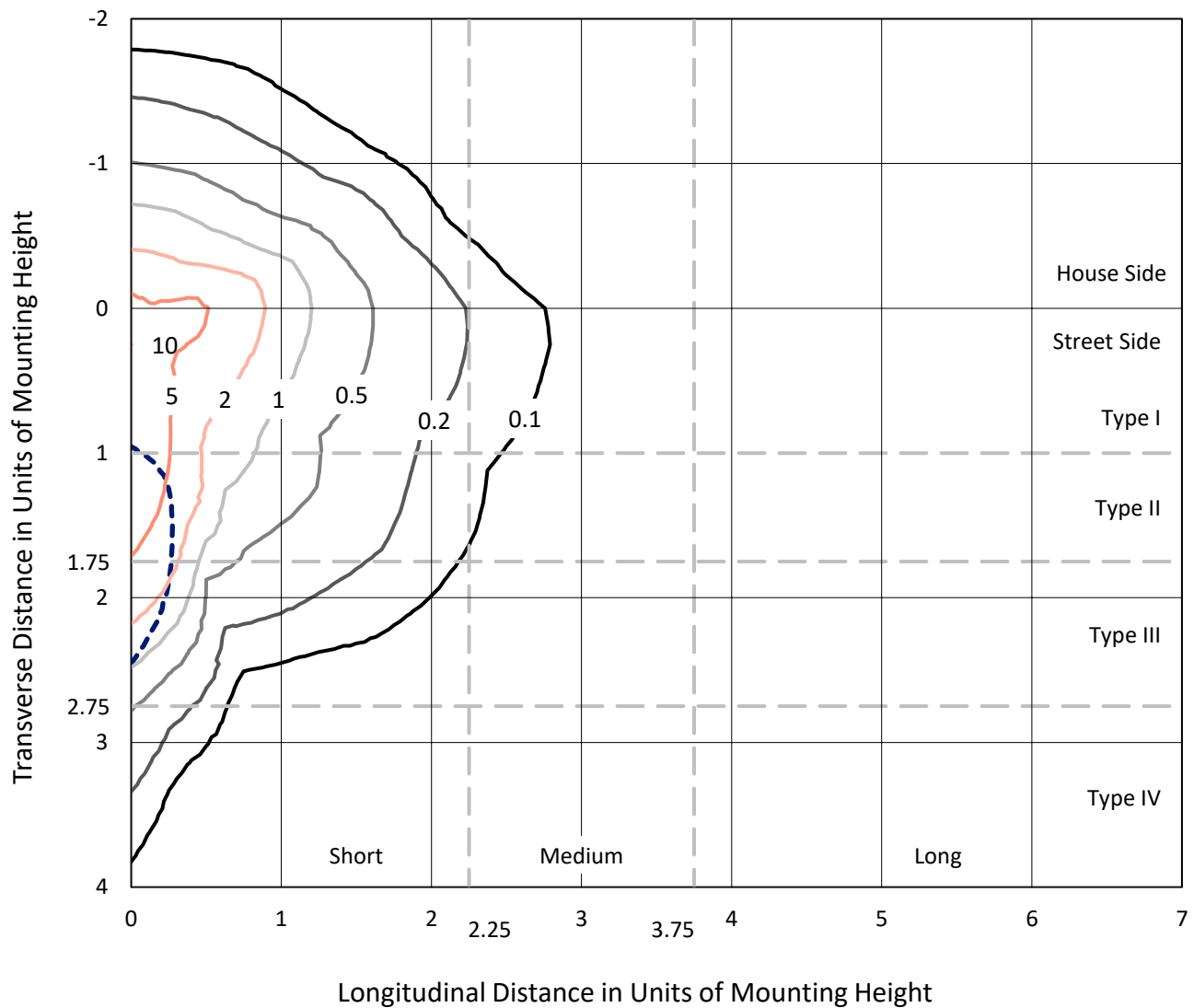


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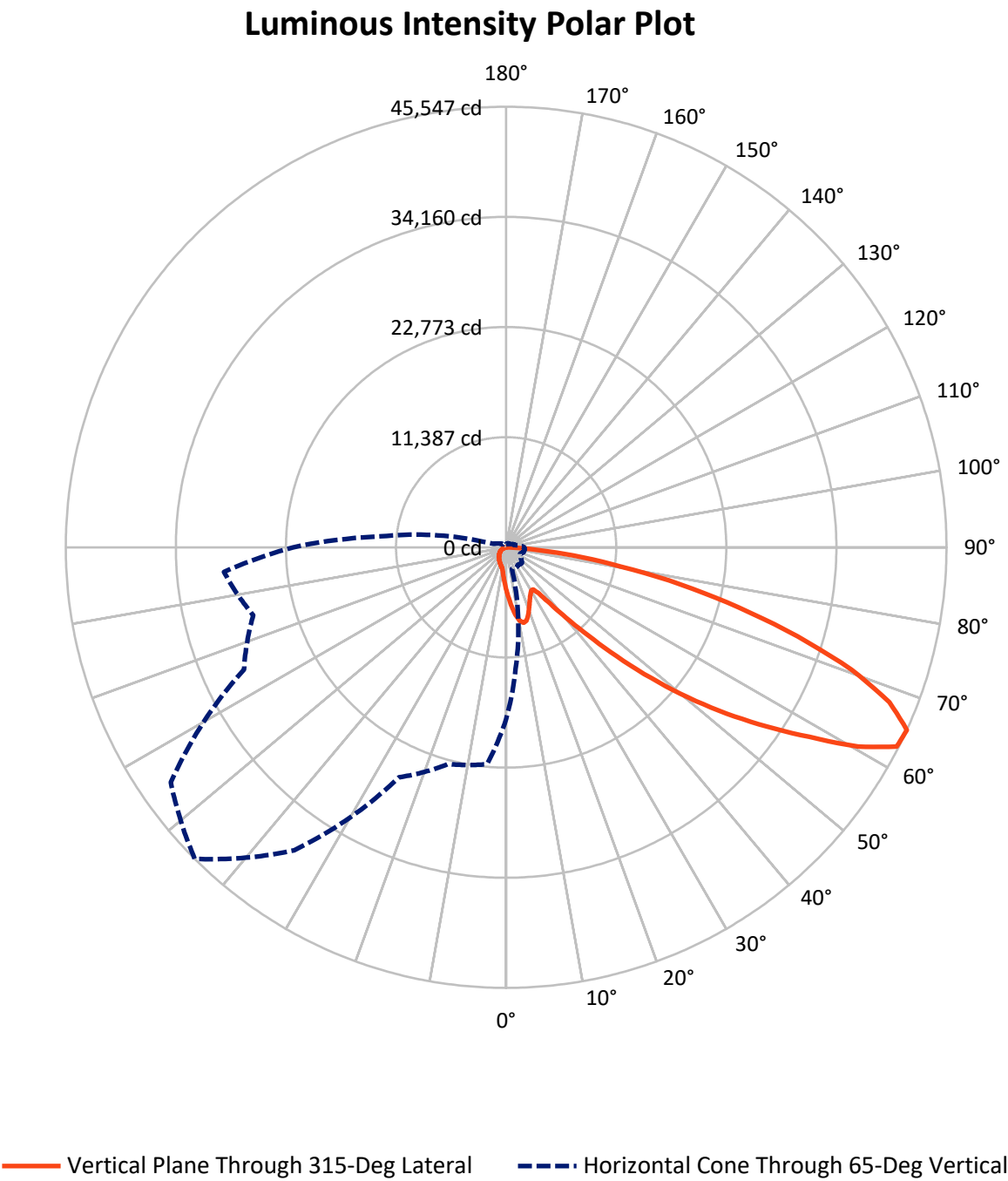
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4538.5	0.0	4538.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	27869.5	0.0	27869.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	32408.0	0.0	32408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.8	1.4
10°-20°	1324.4	4.1
20°-30°	1951.1	6.0
30°-40°	2506.7	7.7
40°-50°	4054.0	12.5
50°-60°	7109.1	21.9
60°-70°	8895.4	27.4
70°-80°	5198.1	16.0
80°-90°	927.4	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°	32408.0	100.0
0°-180°	32408.0	100.0

Coefficient of Utilization



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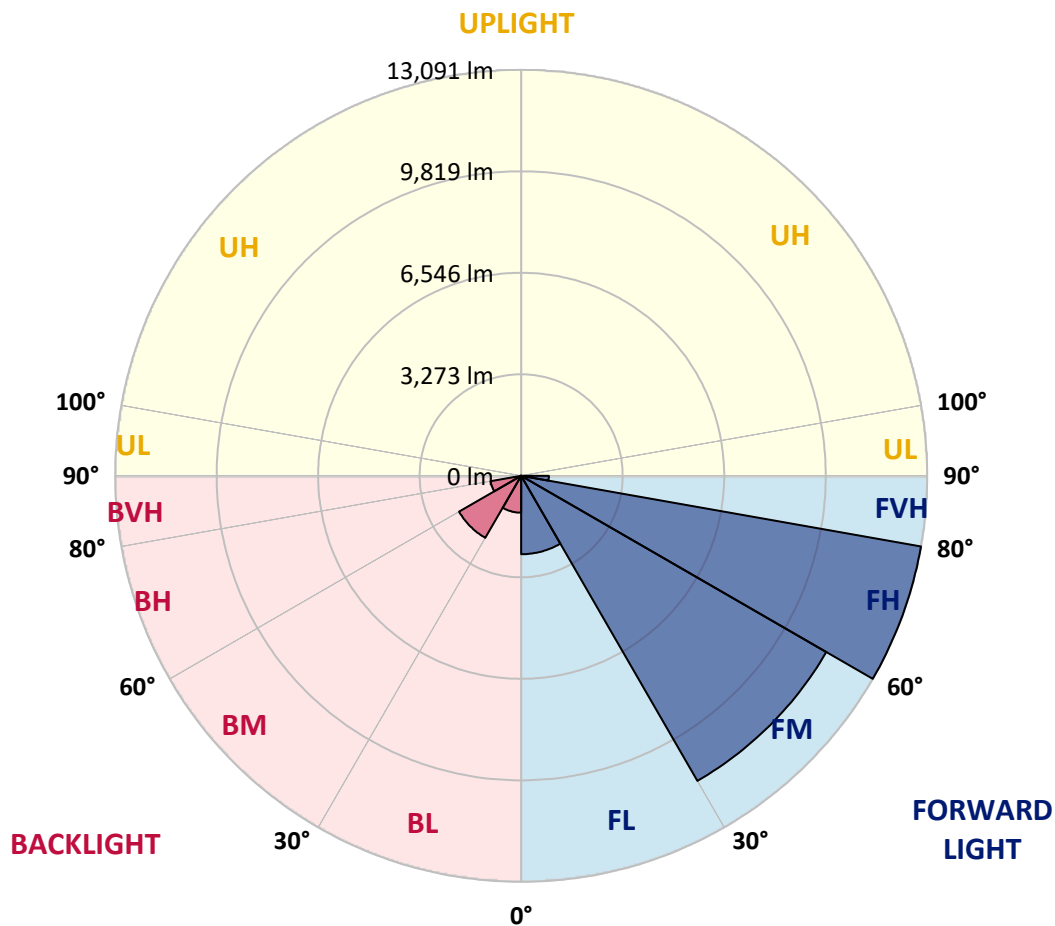
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2527.7	7.8			
FM	(30°-60°)	11358.6	35.0			
FH	(60°-80°)	13091.4	40.4			G5
FVH	(80°-90°)	891.8	2.8			G5
BL	(0°-30°)	1189.6	3.7	B3/2500		
BM	(30°-60°)	2311.1	7.1	B2/2500		
BH	(60°-80°)	1002.1	3.1	B3/2500		G3/2500
BVH	(80°-90°)	35.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5
2.5°	5070.2	4983.1	4931.8	4804.5	4677.2	4574.5	4436.1	4344.6	4235.2	4130.3	4036.5
5°	5650.6	5510.0	5340.3	5108.1	4896.0	4679.5	4469.6	4262.0	4043.2	3842.3	3719.5
7.5°	6141.8	5938.6	5639.5	5331.4	5061.2	4800.0	4554.4	4279.8	4014.2	3699.4	3531.9
10°	6516.9	6257.9	5865.0	5460.9	5150.5	4887.1	4648.2	4416.0	4148.1	3768.6	3558.7
12.5°	6744.6	6467.8	6001.2	5527.8	5172.9	4878.2	4692.9	4590.2	4485.2	4107.9	3862.4
15°	6912.0	6612.9	6097.2	5574.7	5121.5	4759.8	4623.7	4726.4	4846.9	4605.8	4322.3
17.5°	7086.2	6771.4	6222.2	5594.8	4983.1	4529.9	4471.8	4737.5	5016.6	5005.4	4724.1
20°	7251.4	6938.8	6331.6	5581.4	4759.8	4250.8	4302.2	4641.5	4965.2	5101.4	4949.6
22.5°	7441.2	7110.7	6436.5	5530.1	4469.6	3989.6	4150.4	4489.7	4773.2	4934.0	4887.1
25°	7673.4	7327.3	6583.9	5454.2	4157.1	3773.0	3996.3	4313.3	4543.3	4654.9	4652.7
27.5°	7923.4	7586.3	6780.3	5414.0	3904.8	3619.0	3822.2	4103.5	4308.9	4387.0	4387.0
30°	8233.7	7887.7	7012.5	5369.3	3739.6	3529.7	3641.3	3860.1	4061.0	4139.2	4139.2
32.5°	8573.1	8222.6	7235.8	5262.2	3639.1	3462.7	3465.0	3603.4	3786.4	3880.2	3893.6
35°	8997.3	8624.4	7474.7	5027.8	3558.7	3384.6	3293.0	3360.0	3511.8	3623.5	3652.5
37.5°	9602.3	9151.3	7767.1	4692.9	3440.4	3264.0	3112.2	3127.8	3243.9	3366.7	3411.4
40°	10437.3	9859.0	8110.9	4344.6	3270.7	3094.3	2913.5	2906.8	2991.6	3112.2	3161.3
42.5°	11567.0	10794.5	8524.0	4011.9	3107.7	2888.9	2703.6	2692.5	2759.5	2864.4	2915.7
45°	13058.3	11991.1	9030.8	3726.2	2980.5	2688.0	2504.9	2500.5	2556.3	2647.8	2701.4
47.5°	14967.2	13654.4	9537.6	3531.9	2913.5	2529.5	2342.0	2350.9	2400.0	2482.6	2520.6
50°	17438.6	15822.2	9691.6	3433.7	2913.5	2444.7	2196.9	2241.5	2281.7	2344.2	2366.5
52.5°	20401.2	17903.0	9182.6	3344.4	2931.4	2455.8	2074.1	2170.1	2199.1	2252.7	2261.6
55°	23147.3	18923.3	7894.4	3221.6	2935.8	2525.0	1969.1	2112.0	2165.6	2185.7	2183.5
57.5°	24741.4	18572.8	6382.9	3014.0	2918.0	2571.9	1902.2	2040.6	2143.3	2156.7	2136.6
60°	24437.7	17342.6	4699.6	2855.5	2786.3	2554.1	1882.1	1931.2	2094.2	2114.2	2087.5
62.5°	22098.0	15279.7	3261.8	2732.7	2496.0	2475.9	1875.4	1759.3	1987.0	2036.1	1998.2
65°	17762.3	12029.1	2304.0	2353.1	2187.9	2306.2	1839.6	1580.7	1857.5	1924.5	1866.4
67.5°	12886.4	8140.0	1663.3	1906.6	1982.5	2031.6	1759.3	1451.2	1710.2	1799.5	1723.5
70°	8269.4	4395.9	1167.6	1259.2	1670.0	1725.8	1620.8	1335.1	1560.6	1663.3	1580.7
72.5°	5878.4	2596.5	839.4	881.9	1341.8	1437.8	1426.6	1205.6	1386.4	1511.5	1413.2
75°	4056.6	1431.1	567.1	629.6	973.4	1167.6	1100.7	1035.9	1174.3	1301.6	1205.6
77.5°	2542.9	640.7	339.4	437.6	638.5	917.6	754.6	801.5	915.4	1033.7	933.2
80°	1415.5	247.8	189.8	290.2	348.3	667.5	417.5	515.7	674.2	759.1	678.7
82.5°	308.1	31.3	84.8	125.0	136.2	388.5	221.0	299.2	424.2	417.5	361.7
85°	0.0	0.0	15.6	17.9	8.9	167.4	80.4	98.2	138.4	129.5	98.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	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°	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5
2.5°	4018.6	3909.2	3828.9	3788.7	3755.2	3786.4	3804.3	3804.3	3880.2	3924.9	3942.7
5°	3641.3	3444.9	3295.3	3194.8	3134.5	3154.6	3177.0	3201.5	3297.5	3362.3	3404.7
7.5°	3380.1	3078.7	2851.0	2710.3	2636.7	2647.8	2663.5	2683.6	2777.3	2842.1	2897.9
10°	3331.0	2897.9	2576.4	2391.1	2301.8	2286.2	2277.2	2270.5	2326.3	2375.5	2420.1
12.5°	3531.9	2906.8	2458.1	2232.6	2123.2	2076.3	2022.7	1980.3	1989.2	2020.5	2076.3
15°	3891.4	3020.7	2420.1	2150.0	2013.8	1935.6	1873.1	1821.8	1810.6	1821.8	1830.7
17.5°	4302.2	3174.7	2415.6	2078.5	1908.8	1828.5	1777.1	1730.2	1714.6	1716.8	1728.0
20°	4574.5	3297.5	2402.2	1998.2	1808.4	1736.9	1692.3	1645.4	1629.8	1634.2	1636.5
22.5°	4601.3	3362.3	2382.2	1908.8	1707.9	1647.6	1603.0	1560.6	1558.3	1558.3	1571.7
25°	4456.2	3362.3	2339.7	1828.5	1611.9	1558.3	1518.1	1466.8	1475.7	1480.2	1498.1
27.5°	4230.7	3281.9	2259.4	1763.7	1529.3	1473.5	1433.3	1386.4	1397.6	1404.3	1424.4
30°	4007.5	3179.2	2163.4	1690.1	1451.2	1386.4	1357.4	1317.2	1321.7	1330.6	1352.9
32.5°	3799.8	3069.8	2049.5	1629.8	1373.0	1308.3	1286.0	1241.3	1248.0	1256.9	1281.5
35°	3594.4	2949.2	1915.5	1558.3	1301.6	1236.8	1219.0	1167.6	1172.1	1185.5	1212.3
37.5°	3373.4	2822.0	1806.2	1486.9	1232.4	1165.4	1147.5	1094.0	1098.4	1114.1	1145.3
40°	3141.2	2696.9	1699.0	1411.0	1158.7	1091.7	1076.1	1018.1	1022.5	1040.4	1073.9
42.5°	2906.8	2560.8	1616.4	1312.8	1082.8	1011.4	995.7	942.1	948.8	968.9	1002.4
45°	2690.3	2397.8	1562.8	1203.4	1011.4	931.0	915.4	866.2	879.6	902.0	935.4
47.5°	2504.9	2230.3	1540.5	1111.8	935.4	848.4	835.0	794.8	817.1	841.7	868.5
50°	2346.4	2069.6	1511.5	1018.1	864.0	776.9	763.5	736.7	765.8	790.3	814.9
52.5°	2232.6	1886.5	1448.9	933.2	801.5	716.7	712.2	698.8	725.6	747.9	770.2
55°	2134.3	1696.8	1348.5	859.5	745.7	665.3	669.8	663.1	685.4	703.3	723.4
57.5°	2045.0	1531.5	1221.2	801.5	685.4	620.7	634.1	625.1	636.3	647.4	672.0
60°	1937.9	1364.1	1069.4	736.7	614.0	576.0	591.6	567.1	564.8	569.3	576.0
62.5°	1779.4	1138.6	910.9	656.4	551.4	526.9	533.6	486.7	451.0	451.0	457.7
65°	1558.3	915.4	763.5	567.1	480.0	459.9	455.4	388.5	339.4	334.9	355.0
67.5°	1301.6	752.4	634.1	477.8	399.6	386.2	390.7	341.6	292.5	288.0	310.3
70°	1060.5	622.9	511.3	381.8	308.1	321.5	341.6	292.5	245.6	238.9	259.0
72.5°	861.8	495.6	399.6	292.5	227.7	265.7	290.2	238.9	194.2	189.8	207.6
75°	665.3	363.9	285.8	198.7	165.2	205.4	227.7	174.1	138.4	131.7	147.3
77.5°	444.3	225.5	160.7	125.0	98.2	140.7	151.8	91.5	80.4	78.1	89.3
80°	270.1	104.9	69.2	60.3	33.5	51.3	60.3	38.0	42.4	44.7	53.6
82.5°	136.2	29.0	11.2	2.2	0.0	0.0	17.9	8.9	17.9	22.3	33.5
85°	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	11.2	20.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.9
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°	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5
2.5°	4067.7	4161.5	4250.8	4393.7	4541.1	4686.2	4833.5	4976.4	5027.8	5065.7	5150.5
5°	3598.9	3775.3	3980.7	4264.2	4567.8	4880.4	5197.4	5487.7	5619.4	5708.7	5909.6
7.5°	3114.4	3344.4	3639.1	4065.5	4541.1	5038.9	5536.8	5994.5	6206.6	6378.5	6684.3
10°	2634.4	2884.5	3257.3	3744.0	4387.0	5101.4	5789.1	6418.6	6693.3	6909.8	7325.1
12.5°	2212.5	2446.9	2837.6	3375.6	4145.9	5052.3	5934.2	6691.0	7014.7	7258.1	7713.5
15°	1915.5	2080.8	2426.8	3007.3	3860.1	4893.8	5943.1	6820.5	7175.5	7430.0	7825.2
17.5°	1750.3	1806.2	2031.6	2632.2	3543.1	4686.2	5860.5	6865.2	7244.7	7481.4	7756.0
20°	1661.0	1670.0	1732.5	2145.5	3136.8	4491.9	5782.4	6909.8	7309.4	7508.1	7590.7
22.5°	1589.6	1589.6	1605.2	1754.8	2612.1	4259.7	5757.8	6988.0	7398.7	7521.5	7351.9
25°	1524.8	1524.8	1529.3	1569.5	2069.6	3904.8	5742.2	7108.5	7521.5	7555.0	7088.4
27.5°	1457.9	1460.1	1460.1	1482.4	1667.7	3422.5	5675.2	7264.8	7668.9	7599.7	6836.1
30°	1390.9	1395.4	1395.4	1411.0	1475.7	2857.7	5543.5	7452.3	7860.9	7657.7	6586.1
32.5°	1323.9	1328.4	1328.4	1341.8	1388.7	2281.7	5378.3	7624.2	8055.1	7682.3	6353.9
35°	1254.7	1261.4	1256.9	1274.8	1323.9	1815.1	5168.4	7796.1	8265.0	7760.4	6240.0
37.5°	1185.5	1190.0	1187.7	1205.6	1261.4	1567.3	4925.1	7925.6	8550.8	7934.6	6376.2
40°	1116.3	1114.1	1114.1	1134.1	1194.4	1495.8	4619.2	8131.0	8961.5	8240.4	6970.1
42.5°	1044.8	1044.8	1040.4	1062.7	1136.4	1442.2	4326.7	8499.4	9559.9	8727.1	8023.9
45°	980.1	977.9	968.9	989.0	1080.6	1348.5	4224.0	9187.0	10444.0	9515.2	9298.7
47.5°	917.6	915.4	893.0	910.9	1013.6	1263.6	4608.0	10312.3	11669.7	10673.9	10493.1
50°	861.8	864.0	821.6	837.2	946.6	1198.9	5440.8	11772.4	13297.2	12234.5	11625.0
52.5°	810.4	810.4	754.6	763.5	864.0	1140.8	6233.3	13355.2	15444.9	14411.3	12944.5
55°	759.1	754.6	692.1	696.6	781.4	1058.2	6351.7	14900.2	18374.1	17686.4	14748.4
57.5°	701.0	692.1	634.1	634.1	705.5	998.0	5505.5	16087.9	22008.7	22499.9	17349.3
60°	629.6	622.9	584.9	573.8	645.2	1051.5	3884.7	16226.3	24352.9	28900.7	22330.2
62.5°	538.1	547.0	526.9	511.3	587.2	1091.7	2301.8	15112.3	23785.8	30936.8	28295.6
65°	424.2	459.9	455.4	444.3	645.2	919.8	1359.6	12973.5	22046.7	29293.6	27078.9
67.5°	361.7	386.2	379.5	379.5	676.5	698.8	855.1	10135.9	19653.3	27344.5	24187.7
70°	308.1	332.7	308.1	308.1	511.3	424.2	591.6	7077.3	17070.3	25187.9	22290.0
72.5°	254.5	279.1	252.3	234.4	408.6	317.0	433.1	4422.7	14618.9	22941.9	20990.6
75°	194.2	223.3	203.2	180.8	270.1	236.7	328.2	2569.7	12111.7	19628.8	19139.8
77.5°	122.8	160.7	151.8	127.3	198.7	171.9	236.7	1529.3	9345.5	15337.8	16463.0
80°	75.9	82.6	84.8	80.4	113.9	116.1	160.7	870.7	6396.3	10689.6	12861.9
82.5°	49.1	49.1	38.0	42.4	55.8	67.0	91.5	328.2	3759.7	6507.9	8952.6
85°	35.7	31.3	20.1	20.1	26.8	33.5	35.7	100.5	1524.8	2569.7	3500.7
87.5°	17.9	15.6	6.7	8.9	13.4	11.2	8.9	4.5	384.0	821.6	576.0
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°	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5
2.5°	5195.2	5264.4	5268.9	5268.9	5208.6	5206.4	5083.6	5070.2
5°	6117.2	6161.9	6173.1	6150.7	6030.2	5940.9	5702.0	5650.6
7.5°	6961.2	7050.5	7050.5	6996.9	6800.4	6617.3	6271.3	6141.8
10°	7635.4	7738.1	7715.8	7606.4	7358.6	7106.3	6686.6	6516.9
12.5°	7963.6	8068.5	8010.5	7885.4	7644.3	7378.7	6936.6	6744.6
15°	7956.9	7927.9	7867.6	7852.0	7735.9	7534.9	7121.9	6912.0
17.5°	7673.4	7427.8	7380.9	7537.2	7684.5	7635.4	7282.7	7086.2
20°	7224.6	6796.0	6753.5	7052.7	7472.4	7686.7	7432.2	7251.4
22.5°	6751.3	6289.2	6190.9	6521.3	7153.2	7702.4	7622.0	7441.2
25°	6302.6	5838.2	5739.9	6048.0	6798.2	7675.6	7827.4	7673.4
27.5°	5927.5	5478.7	5387.2	5695.3	6456.6	7599.7	8032.8	7923.4
30°	5637.2	5222.0	5155.0	5451.9	6161.9	7505.9	8294.0	8233.7
32.5°	5467.6	5163.9	5188.5	5431.8	6003.4	7403.2	8544.1	8573.1
35°	5635.0	5648.4	5862.7	5963.2	6150.7	7387.6	8883.4	8997.3
37.5°	6467.8	6932.1	7376.4	7293.8	6871.9	7568.4	9390.2	9602.3
40°	7885.4	8838.8	9559.9	9245.1	8182.4	8122.1	10120.3	10437.3
42.5°	9617.9	11234.3	12422.0	11578.1	9872.4	9091.0	11162.9	11567.0
45°	11446.4	14188.0	16058.9	14304.1	11674.1	10448.4	12741.3	13058.3
47.5°	13373.1	17778.0	20198.1	17327.0	13344.1	11993.4	14893.5	14967.2
50°	15480.7	21714.0	24417.6	20347.7	14956.0	13763.8	17523.5	17438.6
52.5°	17487.7	25761.7	28547.9	23381.7	16371.5	15960.7	20575.4	20401.2
55°	19403.3	29807.1	32702.7	26297.5	17706.5	18863.0	24201.1	23147.3
57.5°	21624.7	33443.9	36984.8	29226.6	19573.0	22631.6	28255.4	24741.4
60°	24908.8	37576.4	41827.2	33240.8	23122.8	26592.2	29708.8	24437.7
62.5°	29101.6	41376.3	45348.0	37174.6	26688.2	27337.9	27567.8	22098.0
65°	29916.5	42338.5	45546.7	38226.1	26228.3	23189.7	22506.6	17762.3
67.5°	27755.3	40599.3	42769.4	36268.1	23200.9	17920.9	16889.4	12886.4
70°	25330.8	37284.0	37929.2	32939.4	20405.7	13181.1	11406.2	8269.4
72.5°	22845.9	32861.2	31526.2	28606.0	17934.3	9597.8	8227.0	5878.4
75°	19894.5	27045.4	24832.9	23768.0	14848.8	7532.7	5952.0	4056.6
77.5°	15931.6	19037.1	18445.5	18423.2	11158.4	5503.3	3971.7	2542.9
80°	11238.8	12355.1	12053.7	13875.4	7485.8	3991.8	2391.1	1415.5
82.5°	5440.8	6831.7	7012.5	8262.8	3641.3	2348.7	551.4	308.1
85°	2129.9	3295.3	2779.6	3136.8	1022.5	654.1	13.4	0.0
87.5°	238.9	381.8	350.5	276.8	125.0	26.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)