

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: P950196

Luminaire Tested: **GALN-SB4D-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950196
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-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 25712 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

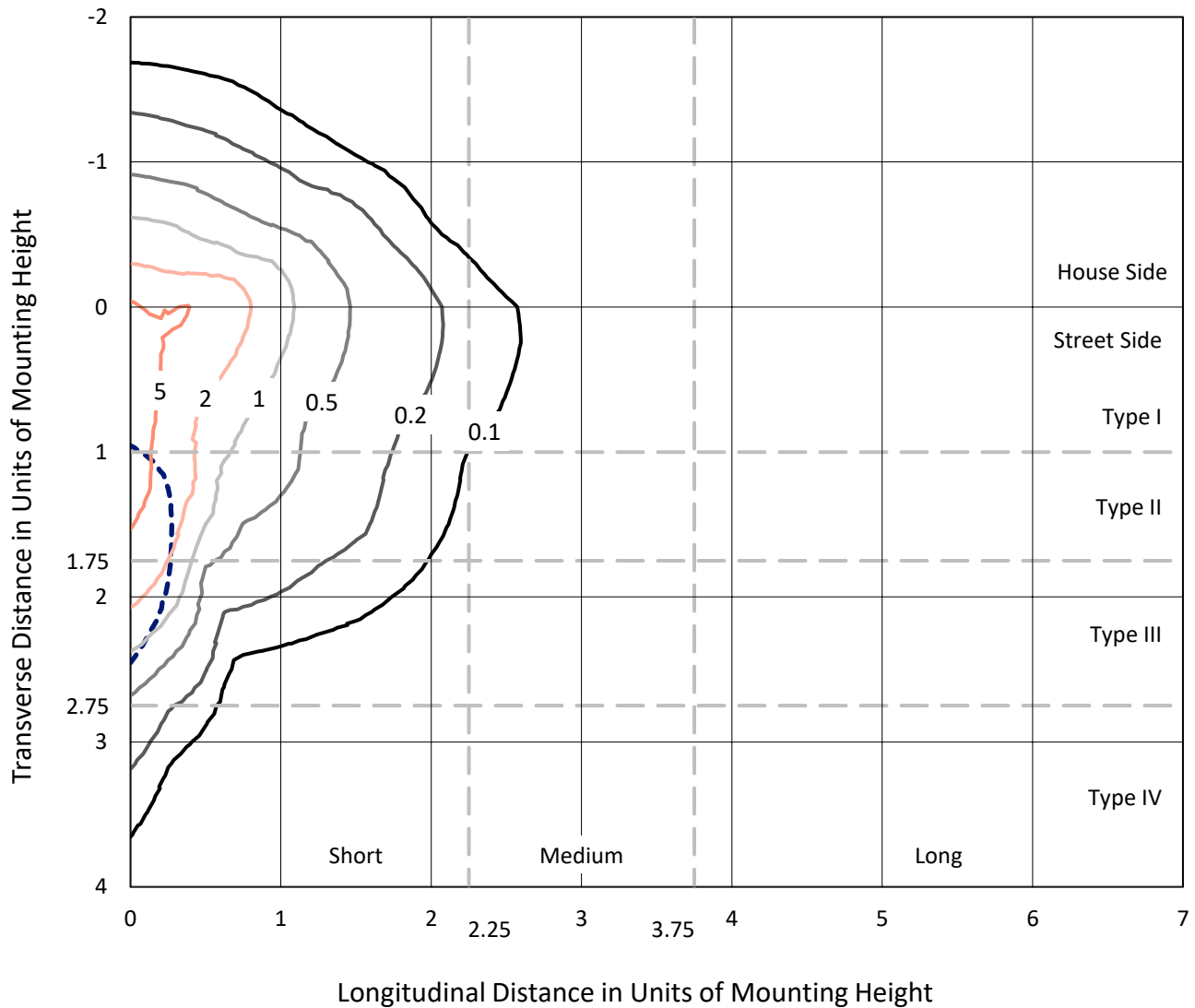


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Iso-Footcandle Lines of Horizontal Illumination

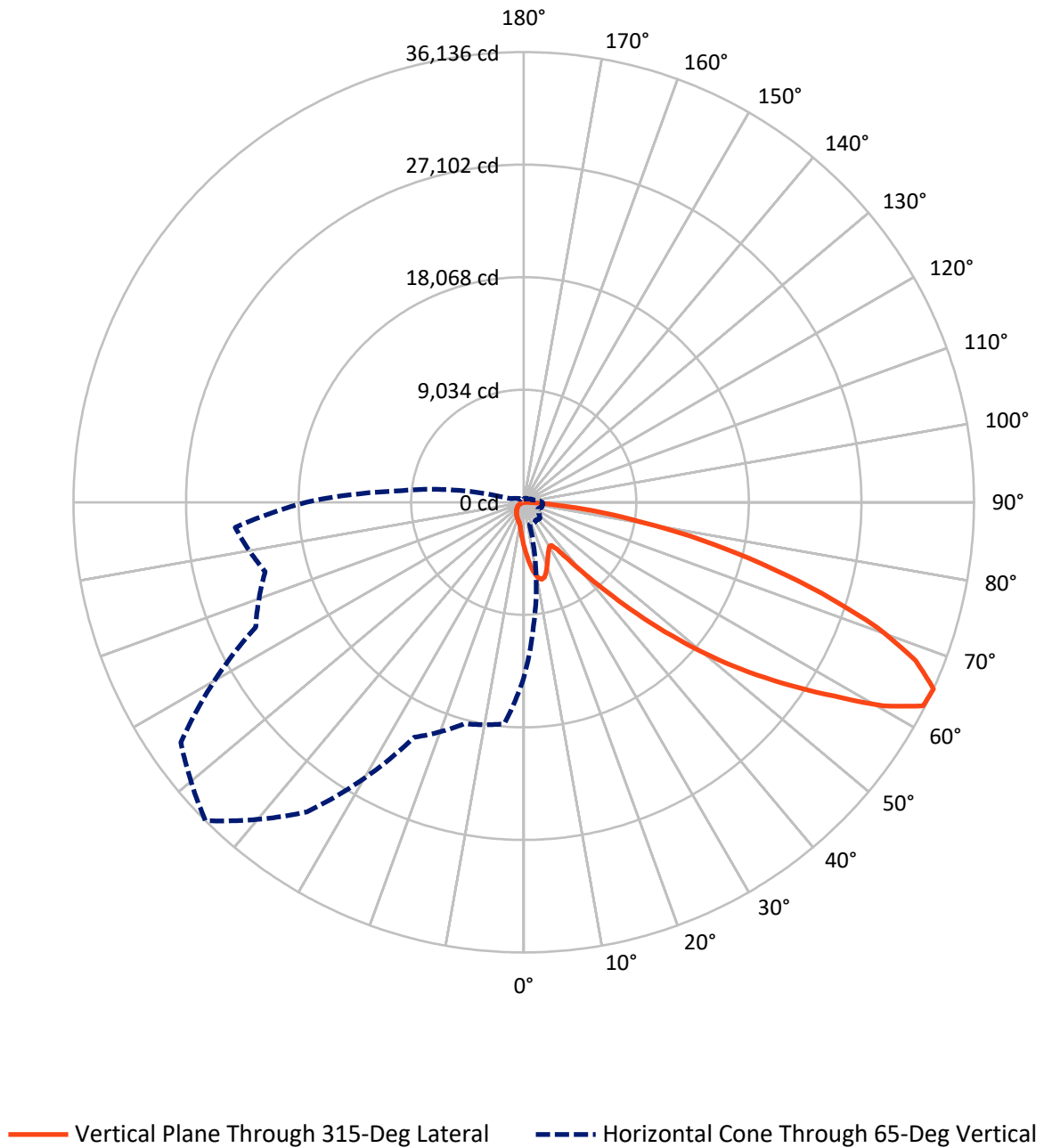
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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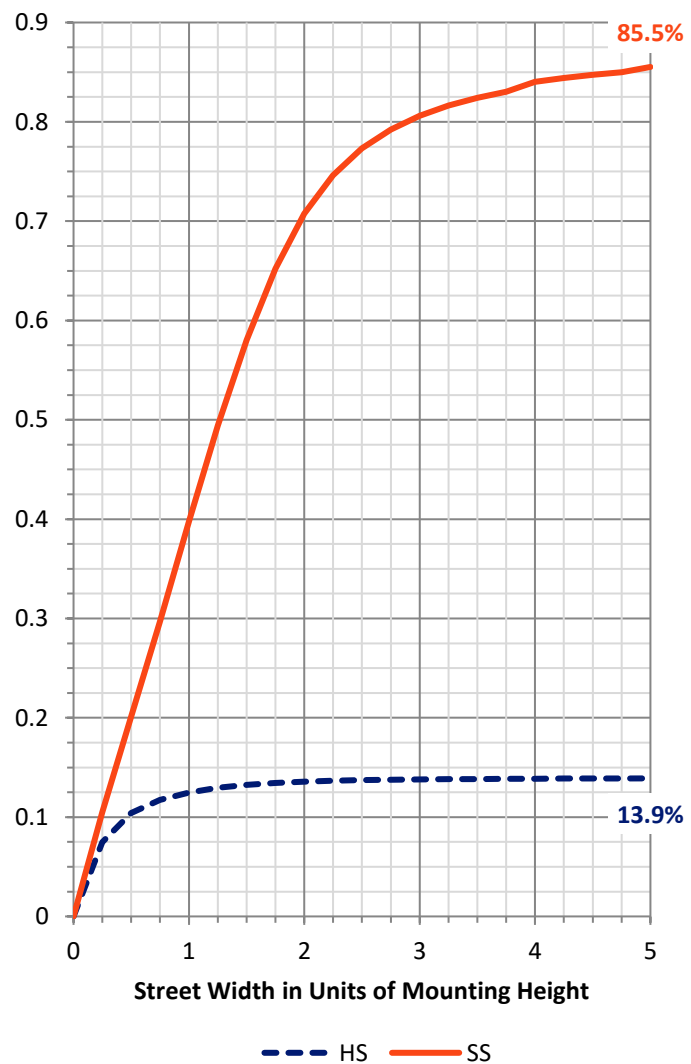
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3600.8	0.0	3600.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	22111.2	0.0	22111.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	25712.0	0.0	25712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.5	1.4
10°-20°	1050.8	4.1
20°-30°	1548.0	6.0
30°-40°	1988.7	7.7
40°-50°	3216.4	12.5
50°-60°	5640.2	21.9
60°-70°	7057.5	27.4
70°-80°	4124.1	16.0
80°-90°	735.8	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°	25712.0	100.0
0°-180°	25712.0	100.0

Coefficient of Utilization



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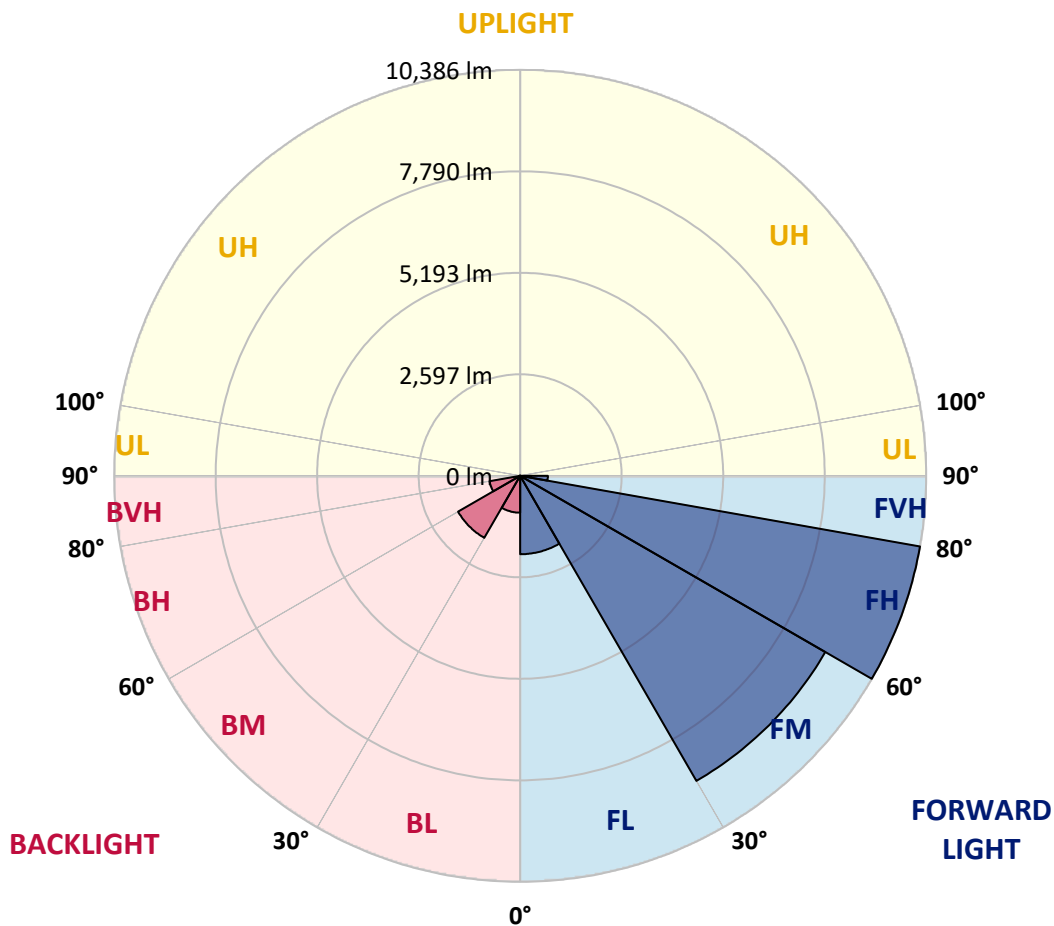
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2005.4	7.8			
FM	(30°-60°)	9011.8	35.0			
FH	(60°-80°)	10386.5	40.4			G4/12000
FVH	(80°-90°)	707.5	2.8			G4/750
BL	(0°-30°)	943.8	3.7	B2/1000		
BM	(30°-60°)	1833.6	7.1	B2/2500		
BH	(60°-80°)	795.1	3.1	B2/1000		G2/1000
BVH	(80°-90°)	28.3	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-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3
2.5°	4022.6	3953.5	3912.8	3811.8	3710.8	3629.4	3519.5	3446.9	3360.1	3276.9	3202.5
5°	4483.1	4371.5	4236.9	4052.7	3884.4	3712.6	3546.1	3381.4	3207.8	3048.4	2951.0
7.5°	4872.8	4711.6	4474.3	4229.8	4015.5	3808.3	3613.4	3395.6	3184.8	2935.0	2802.2
10°	5170.4	4964.9	4653.2	4332.6	4086.4	3877.3	3687.8	3503.6	3291.1	2989.9	2823.4
12.5°	5351.1	5131.4	4761.2	4385.7	4104.1	3870.3	3723.2	3641.8	3558.5	3259.2	3064.3
15°	5483.9	5246.6	4837.4	4422.9	4063.3	3776.4	3668.3	3749.8	3845.5	3654.2	3429.2
17.5°	5622.1	5372.3	4936.6	4438.8	3953.5	3593.9	3547.9	3758.7	3980.1	3971.2	3748.0
20°	5753.1	5505.2	5023.4	4428.2	3776.4	3372.5	3413.3	3682.5	3939.3	4047.4	3926.9
22.5°	5903.7	5641.6	5106.6	4387.5	3546.1	3165.3	3292.8	3562.1	3787.0	3914.5	3877.3
25°	6087.9	5813.4	5223.5	4327.3	3298.1	2993.5	3170.6	3422.1	3604.6	3693.1	3691.4
27.5°	6286.3	6018.8	5379.4	4295.4	3098.0	2871.3	3032.4	3255.6	3418.6	3480.6	3480.6
30°	6532.5	6258.0	5563.6	4259.9	2966.9	2800.4	2889.0	3062.6	3222.0	3284.0	3284.0
32.5°	6801.7	6523.7	5740.7	4174.9	2887.2	2747.3	2749.0	2858.9	3004.1	3078.5	3089.1
35°	7138.3	6842.5	5930.3	3988.9	2823.4	2685.3	2612.7	2665.8	2786.2	2874.8	2897.8
37.5°	7618.3	7260.5	6162.3	3723.2	2729.6	2589.6	2469.2	2481.6	2573.7	2671.1	2706.5
40°	8280.8	7822.0	6435.1	3446.9	2594.9	2455.0	2311.5	2306.2	2373.5	2469.2	2508.1
42.5°	9177.0	8564.2	6762.8	3183.0	2465.6	2292.0	2145.0	2136.2	2189.3	2272.6	2313.3
45°	10360.3	9513.6	7164.9	2956.3	2364.7	2132.6	1987.4	1983.8	2028.1	2100.7	2143.3
47.5°	11874.7	10833.2	7566.9	2802.2	2311.5	2006.9	1858.1	1865.2	1904.1	1969.7	1999.8
50°	13835.5	12553.1	7689.2	2724.2	2311.5	1939.6	1742.9	1778.4	1810.3	1859.9	1877.6
52.5°	16186.0	14204.0	7285.3	2653.4	2325.7	1948.4	1645.5	1721.7	1744.7	1787.2	1794.3
55°	18364.7	15013.4	6263.3	2556.0	2329.2	2003.3	1562.3	1675.6	1718.1	1734.1	1732.3
57.5°	19629.4	14735.3	5064.1	2391.2	2315.1	2040.5	1509.1	1619.0	1700.4	1711.1	1695.1
60°	19388.5	13759.4	3728.6	2265.5	2210.6	2026.4	1493.2	1532.2	1661.5	1677.4	1656.2
62.5°	17532.2	12122.7	2587.9	2168.1	1980.3	1964.4	1487.9	1395.8	1576.4	1615.4	1585.3
65°	14092.4	9543.7	1828.0	1866.9	1735.9	1829.7	1459.5	1254.1	1473.7	1526.9	1480.8
67.5°	10223.9	6458.1	1319.6	1512.7	1572.9	1611.9	1395.8	1151.3	1356.8	1427.7	1367.4
70°	6560.9	3487.7	926.4	999.0	1324.9	1369.2	1286.0	1059.2	1238.1	1319.6	1254.1
72.5°	4663.8	2060.0	666.0	699.7	1064.5	1140.7	1131.9	956.5	1100.0	1199.2	1121.2
75°	3218.4	1135.4	449.9	499.5	772.3	926.4	873.2	821.9	931.7	1032.7	956.5
77.5°	2017.5	508.4	269.2	347.2	506.6	728.0	598.7	635.9	726.2	820.1	740.4
80°	1123.0	196.6	150.6	230.3	276.3	529.6	331.2	409.2	534.9	602.2	538.5
82.5°	244.4	24.8	67.3	99.2	108.0	308.2	175.4	237.4	336.5	331.2	286.9
85°	0.0	0.0	12.4	14.2	7.1	132.8	63.8	77.9	109.8	102.7	77.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	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°	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3
2.5°	3188.3	3101.5	3037.8	3005.9	2979.3	3004.1	3018.3	3018.3	3078.5	3113.9	3128.1
5°	2889.0	2733.1	2614.4	2534.7	2486.9	2502.8	2520.5	2540.0	2616.2	2667.6	2701.2
7.5°	2681.7	2442.6	2261.9	2150.3	2091.9	2100.7	2113.1	2129.1	2203.5	2254.8	2299.1
10°	2642.8	2299.1	2044.1	1897.0	1826.2	1813.8	1806.7	1801.4	1845.7	1884.7	1920.1
12.5°	2802.2	2306.2	1950.2	1771.3	1684.5	1647.3	1604.8	1571.1	1578.2	1603.0	1647.3
15°	3087.4	2396.6	1920.1	1705.8	1597.7	1535.7	1486.1	1445.4	1436.5	1445.4	1452.5
17.5°	3413.3	2518.8	1916.5	1649.1	1514.5	1450.7	1409.9	1372.7	1360.3	1362.1	1371.0
20°	3629.4	2616.2	1905.9	1585.3	1434.7	1378.1	1342.6	1305.4	1293.0	1296.6	1298.4
22.5°	3650.6	2667.6	1890.0	1514.5	1355.0	1307.2	1271.8	1238.1	1236.4	1236.4	1247.0
25°	3535.5	2667.6	1856.3	1450.7	1278.9	1236.4	1204.5	1163.7	1170.8	1174.4	1188.5
27.5°	3356.6	2603.8	1792.5	1399.3	1213.3	1169.1	1137.2	1100.0	1108.8	1114.1	1130.1
30°	3179.5	2522.3	1716.4	1340.9	1151.3	1100.0	1076.9	1045.1	1048.6	1055.7	1073.4
32.5°	3014.7	2435.5	1626.0	1293.0	1089.3	1038.0	1020.3	984.8	990.2	997.2	1016.7
35°	2851.8	2339.9	1519.8	1236.4	1032.7	981.3	967.1	926.4	929.9	940.6	961.8
37.5°	2676.4	2238.9	1433.0	1179.7	977.8	924.6	910.4	867.9	871.5	883.9	908.7
40°	2492.2	2139.7	1348.0	1119.5	919.3	866.2	853.8	807.7	811.2	825.4	852.0
42.5°	2306.2	2031.7	1282.4	1041.5	859.1	802.4	790.0	747.5	752.8	768.7	795.3
45°	2134.4	1902.4	1239.9	954.7	802.4	738.6	726.2	687.3	697.9	715.6	742.2
47.5°	1987.4	1769.5	1222.2	882.1	742.2	673.1	662.5	630.6	648.3	667.8	689.0
50°	1861.6	1642.0	1199.2	807.7	685.5	616.4	605.8	584.5	607.6	627.0	646.5
52.5°	1771.3	1496.7	1149.6	740.4	635.9	568.6	565.0	554.4	575.7	593.4	611.1
55°	1693.4	1346.2	1069.9	681.9	591.6	527.8	531.4	526.1	543.8	558.0	573.9
57.5°	1622.5	1215.1	968.9	635.9	543.8	492.4	503.0	496.0	504.8	513.7	533.2
60°	1537.5	1082.3	848.4	584.5	487.1	457.0	469.4	449.9	448.1	451.7	457.0
62.5°	1411.7	903.4	722.7	520.8	437.5	418.0	423.3	386.1	357.8	357.8	363.1
65°	1236.4	726.2	605.8	449.9	380.8	364.9	361.3	308.2	269.2	265.7	281.6
67.5°	1032.7	596.9	503.0	379.1	317.1	306.4	310.0	271.0	232.0	228.5	246.2
70°	841.4	494.2	405.6	302.9	244.4	255.1	271.0	232.0	194.8	189.5	205.5
72.5°	683.7	393.2	317.1	232.0	180.7	210.8	230.3	189.5	154.1	150.6	164.7
75°	527.8	288.7	226.7	157.6	131.1	163.0	180.7	138.2	109.8	104.5	116.9
77.5°	352.5	178.9	127.5	99.2	77.9	111.6	120.4	72.6	63.8	62.0	70.9
80°	214.3	83.3	54.9	47.8	26.6	40.7	47.8	30.1	33.7	35.4	42.5
82.5°	108.0	23.0	8.9	1.8	0.0	0.0	14.2	7.1	14.2	17.7	26.6
85°	8.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	8.9	15.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3
2.5°	3227.3	3301.7	3372.5	3485.9	3602.8	3717.9	3834.8	3948.2	3988.9	4019.1	4086.4
5°	2855.3	2995.2	3158.2	3383.2	3624.1	3872.0	4123.6	4353.8	4458.3	4529.2	4688.6
7.5°	2470.9	2653.4	2887.2	3225.5	3602.8	3997.8	4392.8	4755.9	4924.2	5060.6	5303.2
10°	2090.1	2288.5	2584.3	2970.5	3480.6	4047.4	4593.0	5092.5	5310.3	5482.1	5811.6
12.5°	1755.3	1941.3	2251.3	2678.2	3289.3	4008.4	4708.1	5308.6	5565.4	5758.5	6119.8
15°	1519.8	1650.8	1925.4	2385.9	3062.6	3882.7	4715.2	5411.3	5692.9	5894.8	6208.4
17.5°	1388.7	1433.0	1611.9	2088.3	2811.0	3717.9	4649.6	5446.7	5747.8	5935.6	6153.5
20°	1317.8	1324.9	1374.5	1702.2	2488.7	3563.8	4587.6	5482.1	5799.2	5956.8	6022.4
22.5°	1261.2	1261.2	1273.6	1392.2	2072.4	3379.6	4568.2	5544.1	5870.0	5967.5	5832.9
25°	1209.8	1209.8	1213.3	1245.2	1642.0	3098.0	4555.8	5639.8	5967.5	5994.0	5623.8
27.5°	1156.7	1158.4	1158.4	1176.1	1323.2	2715.4	4502.6	5763.8	6084.4	6029.5	5423.7
30°	1103.5	1107.1	1107.1	1119.5	1170.8	2267.2	4398.1	5912.6	6236.7	6075.5	5225.3
32.5°	1050.4	1053.9	1053.9	1064.5	1101.7	1810.3	4267.0	6048.9	6390.8	6095.0	5041.1
35°	995.5	1000.8	997.2	1011.4	1050.4	1440.1	4100.5	6185.3	6557.3	6157.0	4950.8
37.5°	940.6	944.1	942.3	956.5	1000.8	1243.4	3907.5	6288.1	6784.0	6295.2	5058.8
40°	885.6	883.9	883.9	899.8	947.6	1186.8	3664.8	6451.0	7110.0	6537.8	5530.0
42.5°	829.0	829.0	825.4	843.1	901.6	1144.3	3432.8	6743.3	7584.7	6924.0	6366.0
45°	777.6	775.8	768.7	784.7	857.3	1069.9	3351.3	7288.9	8286.1	7549.2	7377.4
47.5°	728.0	726.2	708.5	722.7	804.2	1002.5	3655.9	8181.6	9258.5	8468.5	8325.1
50°	683.7	685.5	651.8	664.2	751.0	951.2	4316.6	9340.0	10549.8	9706.7	9223.1
52.5°	643.0	643.0	598.7	605.8	685.5	905.1	4945.4	10595.8	12253.8	11433.7	10269.9
55°	602.2	598.7	549.1	552.6	620.0	839.6	5039.3	11821.6	14577.7	14032.1	11701.1
57.5°	556.2	549.1	503.0	503.0	559.7	791.8	4368.0	12763.9	17461.4	17851.0	13764.7
60°	499.5	494.2	464.1	455.2	511.9	834.3	3082.0	12873.7	19321.2	22929.3	17716.4
62.5°	426.9	434.0	418.0	405.6	465.8	866.2	1826.2	11989.8	18871.3	24544.7	22449.3
65°	336.5	364.9	361.3	352.5	511.9	729.8	1078.7	10293.0	17491.5	23241.1	21484.0
67.5°	286.9	306.4	301.1	301.1	536.7	554.4	678.4	8041.6	15592.7	21694.7	19190.1
70°	244.4	263.9	244.4	244.4	405.6	336.5	469.4	5615.0	13543.3	19983.7	17684.5
72.5°	201.9	221.4	200.2	186.0	324.1	251.5	343.6	3508.9	11598.4	18201.8	16653.7
75°	154.1	177.1	161.2	143.5	214.3	187.8	260.4	2038.8	9609.2	15573.2	15185.3
77.5°	97.4	127.5	120.4	101.0	157.6	136.4	187.8	1213.3	7414.6	12168.7	13061.5
80°	60.2	65.5	67.3	63.8	90.3	92.1	127.5	690.8	5074.7	8480.9	10204.4
82.5°	39.0	39.0	30.1	33.7	44.3	53.1	72.6	260.4	2982.8	5163.3	7102.9
85°	28.3	24.8	15.9	15.9	21.3	26.6	28.3	79.7	1209.8	2038.8	2777.4
87.5°	14.2	12.4	5.3	7.1	10.6	8.9	7.1	3.5	304.7	651.8	457.0
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°	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3	3560.3
2.5°	4121.8	4176.7	4180.2	4180.2	4132.4	4130.6	4033.2	4022.6
5°	4853.3	4888.8	4897.6	4879.9	4784.2	4713.4	4523.9	4483.1
7.5°	5522.9	5593.7	5593.7	5551.2	5395.3	5250.1	4975.5	4872.8
10°	6057.8	6139.3	6121.6	6034.8	5838.2	5638.0	5305.0	5170.4
12.5°	6318.2	6401.4	6355.4	6256.2	6064.9	5854.1	5503.4	5351.1
15°	6312.9	6289.8	6242.0	6229.6	6137.5	5978.1	5650.4	5483.9
17.5°	6087.9	5893.1	5855.9	5979.9	6096.8	6057.8	5777.9	5622.1
20°	5731.9	5391.8	5358.1	5595.5	5928.5	6098.5	5896.6	5753.1
22.5°	5356.4	4989.7	4911.8	5173.9	5675.2	6110.9	6047.2	5903.7
25°	5000.3	4631.9	4554.0	4798.4	5393.6	6089.7	6210.1	6087.9
27.5°	4702.8	4346.7	4274.1	4518.6	5122.6	6029.5	6373.1	6286.3
30°	4472.5	4143.0	4089.9	4325.5	4888.8	5955.1	6580.3	6532.5
32.5°	4337.9	4097.0	4116.5	4309.5	4763.0	5873.6	6778.7	6801.7
35°	4470.7	4481.4	4651.4	4731.1	4879.9	5861.2	7048.0	7138.3
37.5°	5131.4	5499.8	5852.3	5786.8	5452.0	6004.7	7450.0	7618.3
40°	6256.2	7012.5	7584.7	7334.9	6491.8	6443.9	8029.2	8280.8
42.5°	7630.7	8913.1	9855.4	9185.9	7832.6	7212.7	8856.4	9177.0
45°	9081.4	11256.5	12740.9	11348.6	9262.1	8289.6	10108.7	10360.3
47.5°	10610.0	14104.8	16024.8	13747.0	10587.0	9515.4	11816.3	11874.7
50°	12282.1	17227.5	19372.6	16143.5	11865.9	10920.0	13902.8	13835.5
52.5°	13874.5	20438.9	22649.5	18550.7	12988.9	12662.9	16324.2	16186.0
55°	15394.3	23648.5	25945.8	20864.0	14048.1	14965.6	19200.8	18364.7
57.5°	17156.7	26533.9	29343.2	23187.9	15528.9	17955.5	22417.4	19629.4
60°	19762.3	29812.6	33185.1	26372.7	18345.2	21097.8	23570.5	19388.5
62.5°	23088.7	32827.3	35978.4	29493.7	21174.0	21689.4	21871.9	17532.2
65°	23735.3	33590.7	36136.1	30328.0	20809.1	18398.4	17856.4	14092.4
67.5°	22020.7	32210.9	33932.6	28774.6	18407.2	14218.1	13399.8	10223.9
70°	20097.0	29580.5	30092.4	26133.6	16189.6	10457.7	9049.5	6560.9
72.5°	18125.6	26071.6	25012.4	22695.5	14228.8	7614.8	6527.2	4663.8
75°	15783.9	21457.4	19702.0	18857.1	11780.8	5976.3	4722.3	3218.4
77.5°	12639.9	15103.8	14634.4	14616.7	8852.9	4366.2	3151.1	2017.5
80°	8916.7	9802.3	9563.2	11008.6	5939.1	3167.1	1897.0	1123.0
82.5°	4316.6	5420.1	5563.6	6555.5	2889.0	1863.4	437.5	244.4
85°	1689.8	2614.4	2205.3	2488.7	811.2	519.0	10.6	0.0
87.5°	189.5	302.9	278.1	219.6	99.2	21.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)