

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: P955908

Luminaire Tested: **GALN-SB8D-722-U-SLR-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955908
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-SB8D-722-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 51878 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

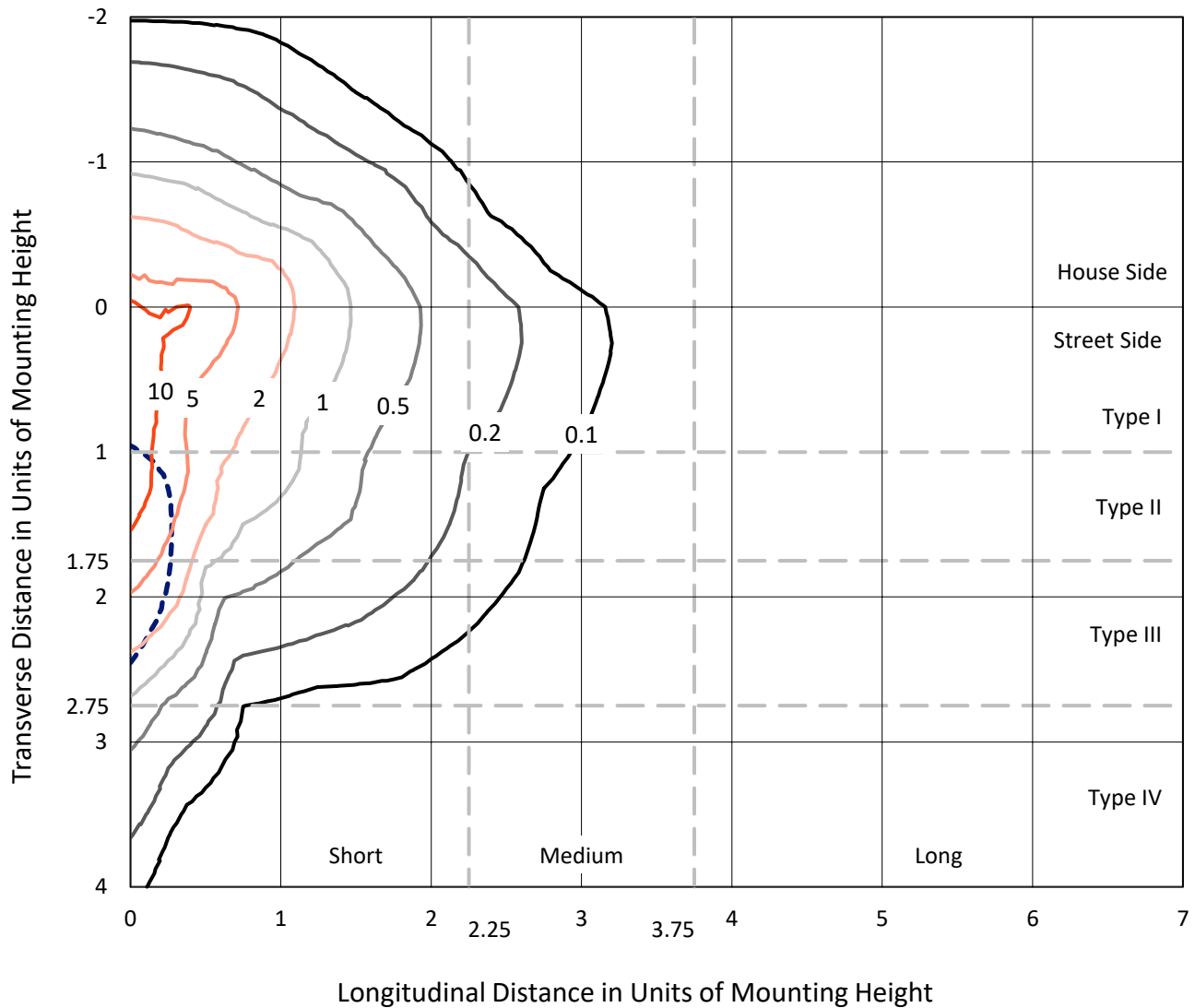
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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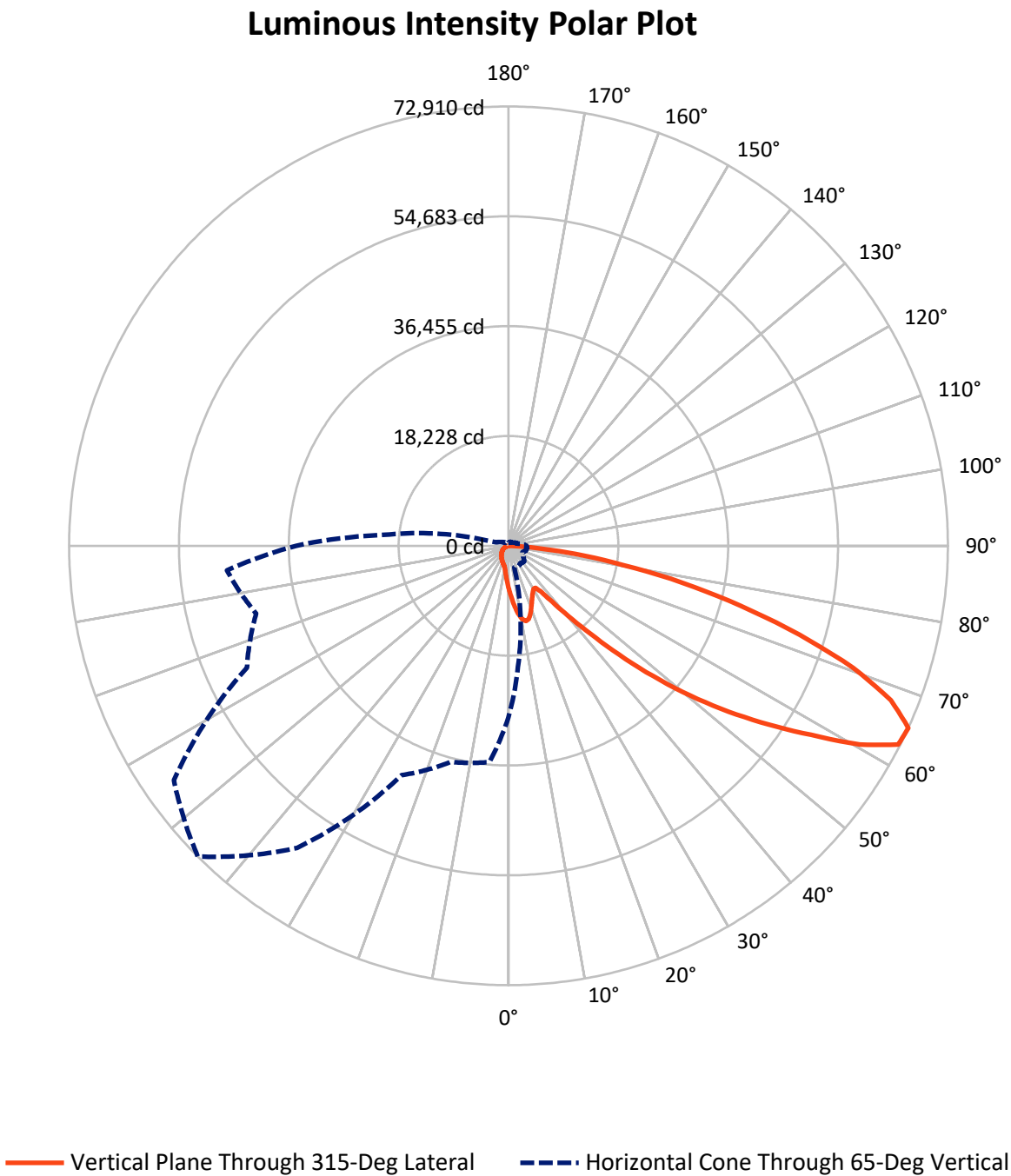
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7265.1	0.0	7265.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	44612.9	0.0	44612.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	51878.0	0.0	51878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.2	1.4
10°-20°	2120.1	4.1
20°-30°	3123.3	6.0
30°-40°	4012.6	7.7
40°-50°	6489.6	12.5
50°-60°	11380.1	21.9
60°-70°	14239.6	27.4
70°-80°	8321.0	16.0
80°-90°	1484.6	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°	51878.0	100.0
0°-180°	51878.0	100.0

Coefficient of Utilization



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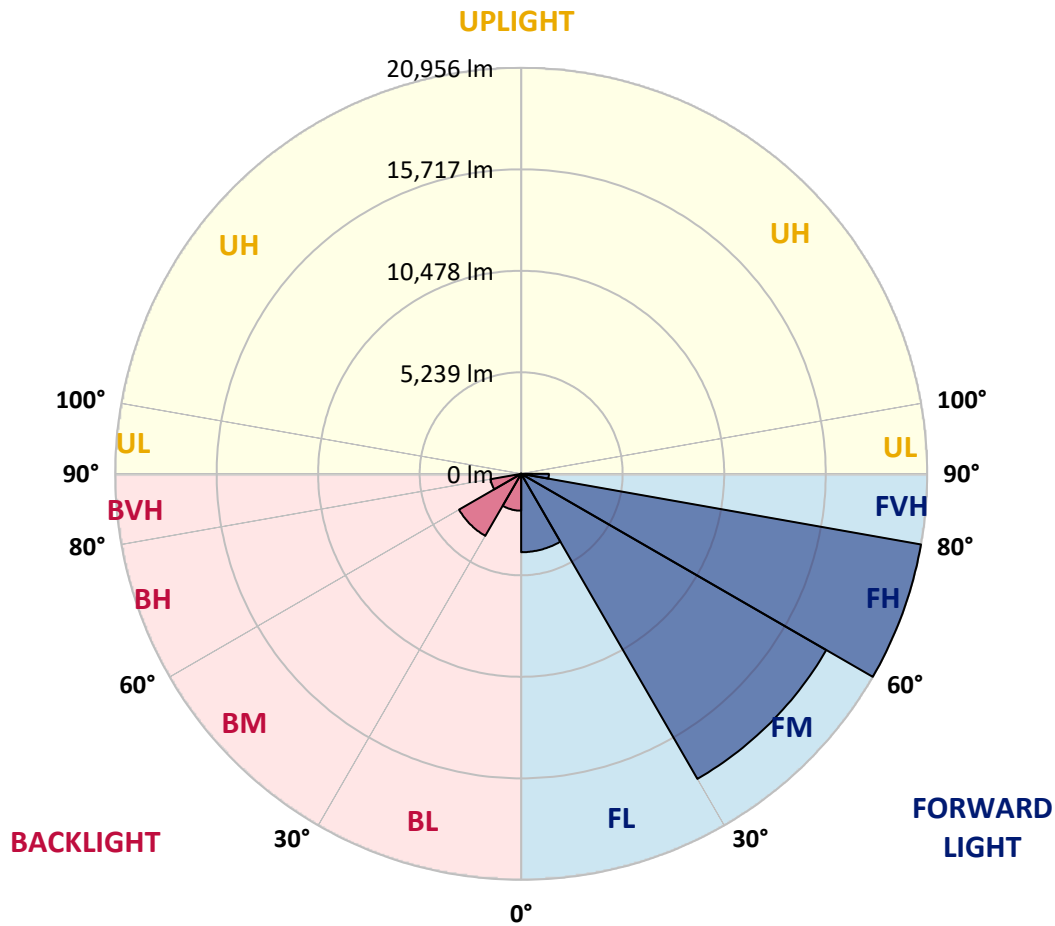
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4046.3	7.8			
FM	(30°-60°)	18182.7	35.0			
FH	(60°-80°)	20956.4	40.4			G5
FVH	(80°-90°)	1427.6	2.8			G5
BL	(0°-30°)	1904.3	3.7	B3/2500		
BM	(30°-60°)	3699.6	7.1	B3/5000		
BH	(60°-80°)	1604.2	3.1	B3/2500		G3/2500
BVH	(80°-90°)	57.0	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°	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4
2.5°	8116.2	7976.8	7894.6	7690.9	7487.2	7322.8	7101.2	6954.7	6779.6	6611.6	6461.5
5°	9045.4	8820.3	8548.7	8177.0	7837.5	7490.8	7154.9	6822.5	6472.2	6150.6	5954.0
7.5°	9831.7	9506.4	9027.6	8534.4	8101.9	7683.8	7290.7	6851.1	6425.8	5921.9	5653.8
10°	10432.1	10017.5	9388.5	8741.6	8244.9	7823.2	7440.8	7069.1	6640.2	6032.7	5696.7
12.5°	10796.6	10353.4	9606.5	8848.9	8280.6	7808.9	7512.2	7347.8	7179.9	6575.9	6182.8
15°	11064.6	10585.8	9760.2	8923.9	8198.4	7619.5	7401.4	7565.8	7758.8	7372.9	6919.0
17.5°	11343.4	10839.5	9960.3	8956.1	7976.8	7251.3	7158.4	7583.7	8030.4	8012.6	7562.3
20°	11607.9	11107.5	10135.4	8934.6	7619.5	6804.6	6886.8	7430.0	7948.2	8166.3	7923.2
22.5°	11911.6	11382.7	10303.4	8852.4	7154.9	6386.5	6643.8	7187.0	7640.9	7898.2	7823.2
25°	12283.3	11729.4	10539.3	8730.9	6654.5	6039.8	6397.2	6904.7	7272.8	7451.5	7447.9
27.5°	12683.6	12143.9	10853.8	8666.6	6250.7	5793.2	6118.4	6568.7	6897.5	7022.6	7022.6
30°	13180.4	12626.4	11225.5	8595.1	5986.2	5650.3	5829.0	6179.2	6500.8	6625.9	6625.9
32.5°	13723.6	13162.5	11582.9	8423.6	5825.4	5543.0	5546.6	5768.2	6061.3	6211.4	6232.8
35°	14402.6	13805.8	11965.3	8048.3	5696.7	5418.0	5271.4	5378.6	5621.7	5800.4	5846.8
37.5°	15371.1	14649.2	12433.4	7512.2	5507.3	5225.0	4982.0	5007.0	5192.8	5389.4	5460.8
40°	16707.8	15782.1	12983.8	6954.7	5235.7	4953.4	4663.9	4653.2	4789.0	4982.0	5060.6
42.5°	18516.1	17279.6	13645.0	6422.2	4974.8	4624.6	4327.9	4310.1	4417.3	4585.3	4667.5
45°	20903.5	19195.2	14456.2	5964.8	4771.1	4302.9	4009.9	4002.7	4092.1	4238.6	4324.4
47.5°	23959.1	21857.7	15267.5	5653.8	4663.9	4049.2	3749.0	3763.3	3841.9	3974.1	4034.9
50°	27915.4	25327.9	15514.1	5496.6	4663.9	3913.4	3516.7	3588.1	3652.5	3752.5	3788.3
52.5°	32657.9	28658.7	14699.3	5353.6	4692.5	3931.2	3320.1	3473.8	3520.2	3606.0	3620.3
55°	37053.7	30292.0	12637.1	5157.1	4699.6	4042.0	3152.1	3380.9	3466.6	3498.8	3495.2
57.5°	39605.4	29730.9	10217.6	4824.7	4671.0	4117.1	3044.9	3266.5	3430.9	3452.3	3420.2
60°	39119.4	27761.7	7523.0	4571.0	4460.2	4088.5	3012.8	3091.4	3352.3	3384.4	3341.6
62.5°	35374.0	24459.4	5221.4	4374.4	3995.6	3963.4	3002.0	2816.2	3180.7	3259.4	3198.6
65°	28433.6	19255.9	3688.2	3766.8	3502.4	3691.8	2944.9	2530.3	2973.4	3080.7	2987.7
67.5°	20628.3	13030.3	2662.5	3052.1	3173.6	3252.2	2816.2	2323.0	2737.6	2880.5	2759.0
70°	13237.5	7036.9	1869.1	2015.7	2673.2	2762.6	2594.6	2137.2	2498.1	2662.5	2530.3
72.5°	9410.0	4156.4	1343.8	1411.7	2147.9	2301.6	2283.7	1929.9	2219.4	2419.5	2262.2
75°	6493.7	2290.8	907.8	1007.8	1558.2	1869.1	1761.9	1658.3	1879.8	2083.6	1929.9
77.5°	4070.6	1025.7	543.2	700.5	1022.1	1468.9	1208.0	1283.0	1465.3	1654.7	1493.9
80°	2265.8	396.7	303.8	464.6	557.5	1068.6	668.3	825.6	1079.3	1215.1	1086.5
82.5°	493.2	50.0	135.8	200.1	218.0	621.9	353.8	478.9	679.0	668.3	579.0
85°	0.0	0.0	25.0	28.6	14.3	268.0	128.7	157.2	221.6	207.3	157.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	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°	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4
2.5°	6432.9	6257.8	6129.2	6064.8	6011.2	6061.3	6089.8	6089.8	6211.4	6282.8	6311.4
5°	5829.0	5514.5	5275.0	5114.2	5017.7	5049.9	5085.6	5124.9	5278.6	5382.2	5450.1
7.5°	5410.8	4928.3	4563.8	4338.7	4220.7	4238.6	4263.6	4295.8	4445.9	4549.5	4638.9
10°	5332.2	4638.9	4124.2	3827.6	3684.6	3659.6	3645.3	3634.6	3724.0	3802.6	3874.1
12.5°	5653.8	4653.2	3934.8	3573.9	3398.7	3323.7	3237.9	3170.0	3184.3	3234.3	3323.7
15°	6229.2	4835.4	3874.1	3441.6	3223.6	3098.5	2998.5	2916.3	2898.4	2916.3	2930.6
17.5°	6886.8	5082.0	3866.9	3327.3	3055.6	2927.0	2844.8	2769.7	2744.7	2748.3	2766.2
20°	7322.8	5278.6	3845.5	3198.6	2894.8	2780.5	2709.0	2633.9	2608.9	2616.1	2619.6
22.5°	7365.7	5382.2	3813.3	3055.6	2734.0	2637.5	2566.0	2498.1	2494.5	2494.5	2516.0
25°	7133.4	5382.2	3745.4	2927.0	2580.3	2494.5	2430.2	2348.0	2362.3	2369.5	2398.1
27.5°	6772.5	5253.6	3616.7	2823.3	2448.1	2358.7	2294.4	2219.4	2237.2	2248.0	2280.1
30°	6415.1	5089.2	3463.1	2705.4	2323.0	2219.4	2172.9	2108.6	2115.7	2130.0	2165.8
32.5°	6082.7	4914.0	3280.8	2608.9	2197.9	2094.3	2058.5	1987.1	1997.8	2012.1	2051.4
35°	5753.9	4721.1	3066.4	2494.5	2083.6	1979.9	1951.3	1869.1	1876.3	1897.7	1940.6
37.5°	5400.1	4517.3	2891.2	2380.2	1972.8	1865.6	1837.0	1751.2	1758.3	1783.4	1833.4
40°	5028.4	4317.2	2719.7	2258.7	1854.8	1747.6	1722.6	1629.7	1636.8	1665.4	1719.0
42.5°	4653.2	4099.2	2587.5	2101.4	1733.3	1619.0	1593.9	1508.2	1518.9	1551.1	1604.7
45°	4306.5	3838.3	2501.7	1926.3	1619.0	1490.3	1465.3	1386.7	1408.1	1443.8	1497.4
47.5°	4009.9	3570.3	2466.0	1779.8	1497.4	1358.1	1336.6	1272.3	1308.0	1347.3	1390.2
50°	3756.1	3313.0	2419.5	1629.7	1383.1	1243.7	1222.3	1179.4	1225.8	1265.1	1304.5
52.5°	3573.9	3019.9	2319.4	1493.9	1283.0	1147.2	1140.1	1118.6	1161.5	1197.2	1233.0
55°	3416.6	2716.1	2158.6	1375.9	1193.7	1065.0	1072.2	1061.4	1097.2	1125.8	1157.9
57.5°	3273.6	2451.7	1954.9	1283.0	1097.2	993.5	1015.0	1000.7	1018.5	1036.4	1075.7
60°	3102.1	2183.6	1711.9	1179.4	982.8	922.1	947.1	907.8	904.2	911.3	922.1
62.5°	2848.4	1822.7	1458.1	1050.7	882.7	843.4	854.2	779.1	721.9	721.9	732.6
65°	2494.5	1465.3	1222.3	907.8	768.4	736.2	729.1	621.9	543.2	536.1	568.2
67.5°	2083.6	1204.4	1015.0	764.8	639.7	618.3	625.4	546.8	468.2	461.0	496.8
70°	1697.6	997.1	818.4	611.1	493.2	514.6	546.8	468.2	393.1	382.4	414.6
72.5°	1379.5	793.4	639.7	468.2	364.5	425.3	464.6	382.4	310.9	303.8	332.4
75°	1065.0	582.5	457.5	318.1	264.5	328.8	364.5	278.8	221.6	210.9	235.9
77.5°	711.2	361.0	257.3	200.1	157.2	225.2	243.0	146.5	128.7	125.1	143.0
80°	432.4	168.0	110.8	96.5	53.6	82.2	96.5	60.8	67.9	71.5	85.8
82.5°	218.0	46.5	17.9	3.6	0.0	0.0	28.6	14.3	28.6	35.7	53.6
85°	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.1	17.9	32.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.3
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°	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4
2.5°	6511.6	6661.7	6804.6	7033.3	7269.2	7501.5	7737.4	7966.1	8048.3	8109.1	8244.9
5°	5761.0	6043.4	6372.2	6826.1	7312.1	7812.4	8319.9	8784.5	8995.4	9138.3	9460.0
7.5°	4985.5	5353.6	5825.4	6508.0	7269.2	8066.2	8863.2	9595.8	9935.3	10210.5	10700.1
10°	4217.1	4617.4	5214.3	5993.4	7022.6	8166.3	9267.0	10274.8	10714.4	11061.1	11725.8
12.5°	3541.7	3916.9	4542.4	5403.7	6636.6	8087.6	9499.3	10710.8	11229.0	11618.6	12347.7
15°	3066.4	3330.8	3884.8	4814.0	6179.2	7833.9	9513.6	10918.1	11486.4	11893.8	12526.4
17.5°	2801.9	2891.2	3252.2	4213.6	5671.7	7501.5	9381.4	10989.6	11597.2	11976.0	12415.6
20°	2658.9	2673.2	2773.3	3434.5	5021.3	7190.6	9256.3	11061.1	11700.8	12018.9	12151.1
22.5°	2544.6	2544.6	2569.6	2809.0	4181.4	6818.9	9217.0	11186.2	11843.7	12040.3	11768.7
25°	2440.9	2440.9	2448.1	2512.4	3313.0	6250.7	9191.9	11379.1	12040.3	12093.9	11347.0
27.5°	2333.7	2337.3	2337.3	2373.0	2669.7	5478.7	9084.7	11629.3	12276.2	12165.4	10943.1
30°	2226.5	2233.7	2233.7	2258.7	2362.3	4574.5	8873.9	11929.5	12583.5	12258.3	10542.9
32.5°	2119.3	2126.4	2126.4	2147.9	2222.9	3652.5	8609.4	12204.7	12894.5	12297.6	10171.2
35°	2008.5	2019.2	2012.1	2040.7	2119.3	2905.5	8273.5	12479.9	13230.4	12422.7	9988.9
37.5°	1897.7	1904.9	1901.3	1929.9	2019.2	2508.8	7883.9	12687.2	13687.9	12701.5	10206.9
40°	1786.9	1783.4	1783.4	1815.5	1912.0	2394.5	7394.3	13016.0	14345.4	13191.1	11157.6
42.5°	1672.6	1672.6	1665.4	1701.2	1819.1	2308.7	6926.1	13605.7	15303.2	13970.2	12844.4
45°	1568.9	1565.3	1551.1	1583.2	1729.7	2158.6	6761.7	14706.4	16718.5	15231.8	14885.1
47.5°	1468.9	1465.3	1429.5	1458.1	1622.5	2022.8	7376.4	16507.6	18680.5	17086.6	16797.1
50°	1379.5	1383.1	1315.2	1340.2	1515.3	1919.2	8709.5	18844.9	21285.9	19584.7	18609.0
52.5°	1297.3	1297.3	1208.0	1222.3	1383.1	1826.2	9978.2	21378.8	24723.9	23069.2	20721.2
55°	1215.1	1208.0	1107.9	1115.0	1250.8	1694.0	10167.6	23851.9	29412.8	28312.1	23608.9
57.5°	1122.2	1107.9	1015.0	1015.0	1129.3	1597.5	8813.1	25753.2	35231.0	36017.3	27772.4
60°	1007.8	997.1	936.3	918.5	1032.8	1683.3	6218.5	25974.8	38983.6	46263.5	35745.7
62.5°	861.3	875.6	843.4	818.4	939.9	1747.6	3684.6	24191.4	38075.8	49522.9	45295.0
65°	679.0	736.2	729.1	711.2	1032.8	1472.4	2176.5	20767.7	35291.8	46892.5	43347.3
67.5°	579.0	618.3	607.6	607.6	1082.9	1118.6	1368.8	16225.3	31460.6	43772.5	38719.1
70°	493.2	532.5	493.2	493.2	818.4	679.0	947.1	11329.1	27325.7	40320.2	35681.3
72.5°	407.4	446.7	403.8	375.3	654.0	507.5	693.3	7079.8	23401.6	36724.9	33601.4
75°	310.9	357.4	325.2	289.5	432.4	378.8	525.4	4113.5	19388.1	31421.3	30638.6
77.5°	196.6	257.3	243.0	203.7	318.1	275.2	378.8	2448.1	14960.1	24552.4	26353.6
80°	121.5	132.2	135.8	128.7	182.3	185.8	257.3	1393.8	10239.1	17111.6	20589.0
82.5°	78.6	78.6	60.8	67.9	89.3	107.2	146.5	525.4	6018.4	10417.8	14331.1
85°	57.2	50.0	32.2	32.2	42.9	53.6	57.2	160.8	2440.9	4113.5	5603.8
87.5°	28.6	25.0	10.7	14.3	21.4	17.9	14.3	7.1	614.7	1315.2	922.1
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°	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4	7183.4
2.5°	8316.4	8427.1	8434.3	8434.3	8337.8	8334.2	8137.7	8116.2
5°	9792.4	9863.8	9881.7	9846.0	9653.0	9510.0	9127.6	9045.4
7.5°	11143.3	11286.2	11286.2	11200.5	10886.0	10592.9	10039.0	9831.7
10°	12222.6	12387.0	12351.2	12176.1	11779.4	11375.6	10703.7	10432.1
12.5°	12747.9	12915.9	12823.0	12622.8	12236.9	11811.6	11104.0	10796.6
15°	12737.2	12690.7	12594.3	12569.2	12383.4	12061.8	11400.6	11064.6
17.5°	12283.3	11890.2	11815.2	12065.3	12301.2	12222.6	11657.9	11343.4
20°	11565.0	10878.8	10810.9	11289.8	11961.7	12304.8	11897.4	11607.9
22.5°	10807.3	10067.5	9910.3	10439.2	11450.6	12329.8	12201.1	11911.6
25°	10089.0	9345.6	9188.4	9681.6	10882.4	12286.9	12529.9	12283.3
27.5°	9488.6	8770.2	8623.7	9116.9	10335.6	12165.4	12858.7	12683.6
30°	9024.0	8359.2	8252.0	8727.3	9863.8	12015.3	13276.9	13180.4
32.5°	8752.4	8266.3	8305.6	8695.2	9610.1	11850.9	13677.1	13723.6
35°	9020.4	9041.8	9384.9	9545.8	9846.0	11825.9	14220.4	14402.6
37.5°	10353.4	11096.8	11808.0	11675.8	11000.3	12115.4	15031.6	15371.1
40°	12622.8	14148.9	15303.2	14799.3	13098.2	13001.7	16200.3	16707.8
42.5°	15396.2	17983.6	19884.9	18534.0	15803.6	14552.7	17869.3	18516.1
45°	18323.1	22711.8	25706.7	22897.7	18687.7	16725.6	20396.0	20903.5
47.5°	21407.4	28458.6	32332.6	27736.7	21360.9	19198.7	23841.2	23959.1
50°	24781.1	34759.3	39087.2	32572.1	23941.2	22032.8	28051.2	27915.4
52.5°	27994.0	41238.7	45698.8	37429.0	26207.1	25549.5	32936.6	32657.9
55°	31060.3	47714.5	52349.8	42096.4	28344.2	30195.5	38740.6	37053.7
57.5°	34616.3	53536.3	59204.4	46785.3	31332.0	36228.1	45230.7	39605.4
60°	39873.5	60151.5	66956.1	53211.1	37014.4	42568.2	47557.3	39119.4
62.5°	46585.2	66234.2	72592.1	59508.2	42721.8	43761.8	44129.9	35374.0
65°	47889.6	67774.5	72910.2	61191.5	41985.6	37121.6	36028.0	28433.6
67.5°	44430.1	64990.5	68464.3	58057.2	37139.5	28687.3	27036.2	20628.3
70°	40548.9	59683.3	60716.2	52728.6	32665.0	21100.0	18258.8	13237.5
72.5°	36571.2	52603.5	50466.4	45791.8	28708.8	15364.0	13169.6	9410.0
75°	31846.6	43293.6	39752.0	38047.2	23769.7	12058.2	9527.9	6493.7
77.5°	25503.0	30474.2	29527.2	29491.4	17862.1	8809.5	6357.9	4070.6
80°	17990.8	19777.7	19295.2	22211.5	11983.1	6390.0	3827.6	2265.8
82.5°	8709.5	10936.0	11225.5	13226.8	5829.0	3759.7	882.7	493.2
85°	3409.5	5275.0	4449.4	5021.3	1636.8	1047.1	21.4	0.0
87.5°	382.4	611.1	561.1	443.2	200.1	42.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)