

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: P453627

Luminaire Tested: **GALN-SA4C-830-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19050 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 213
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

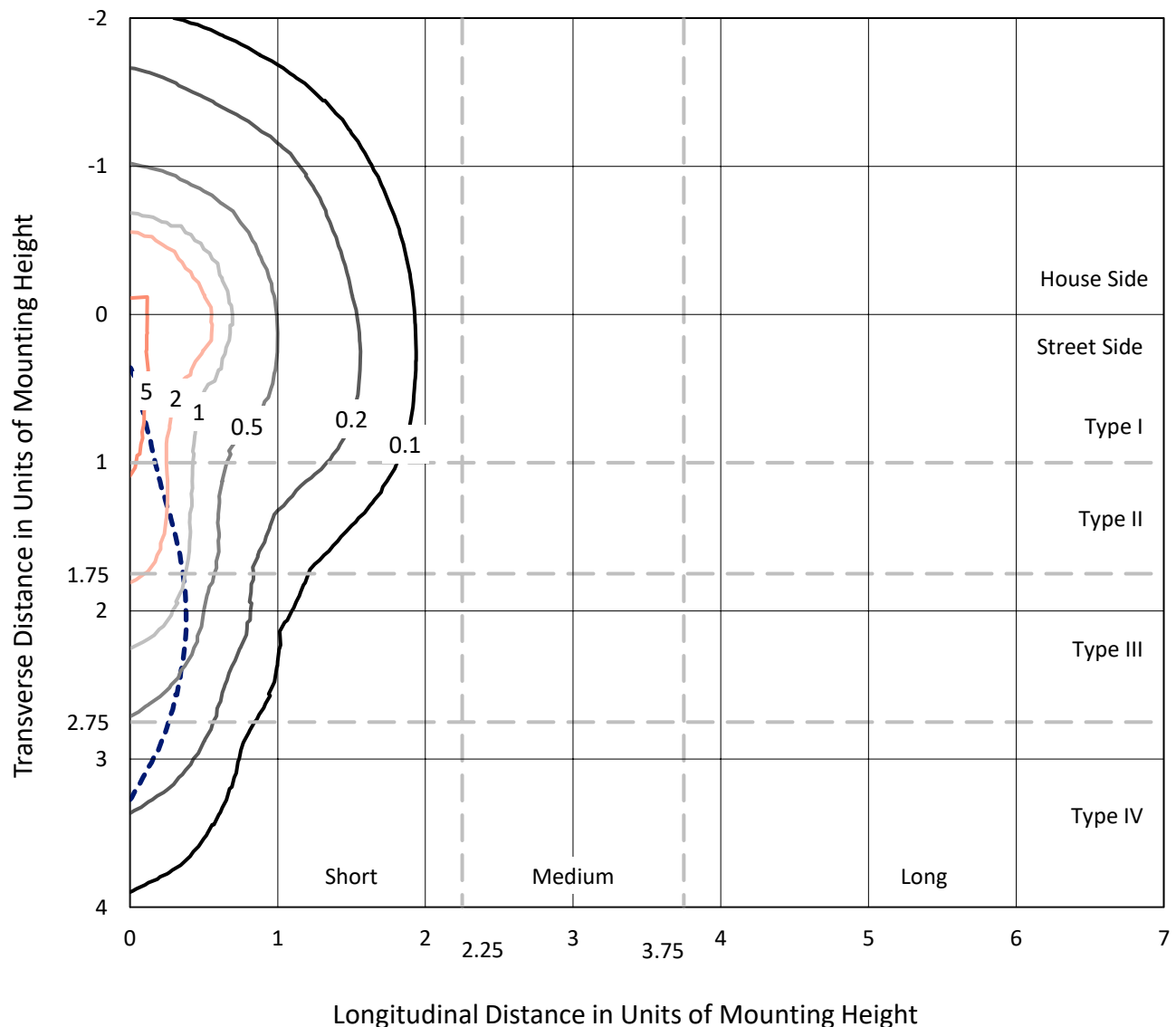


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

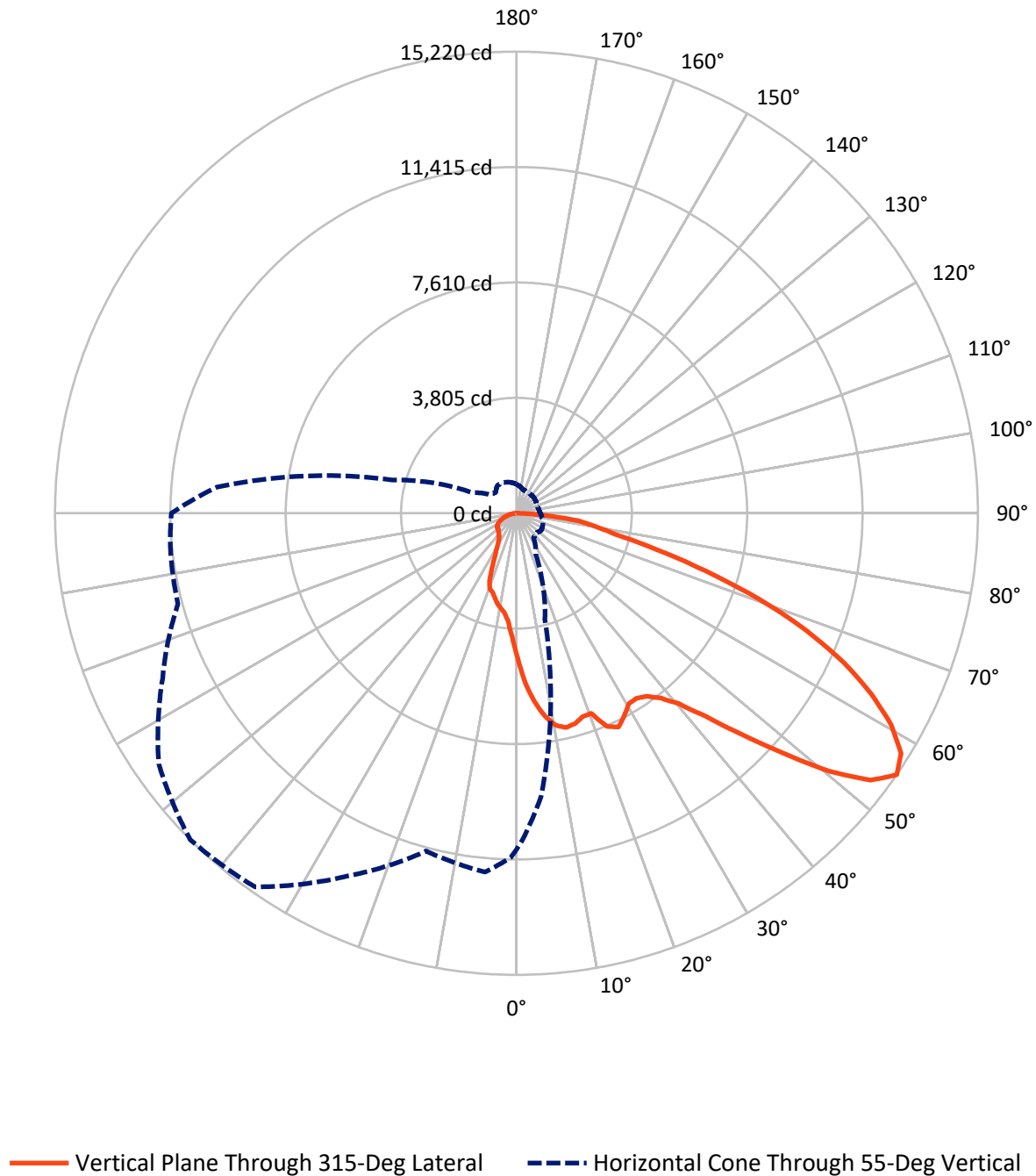


Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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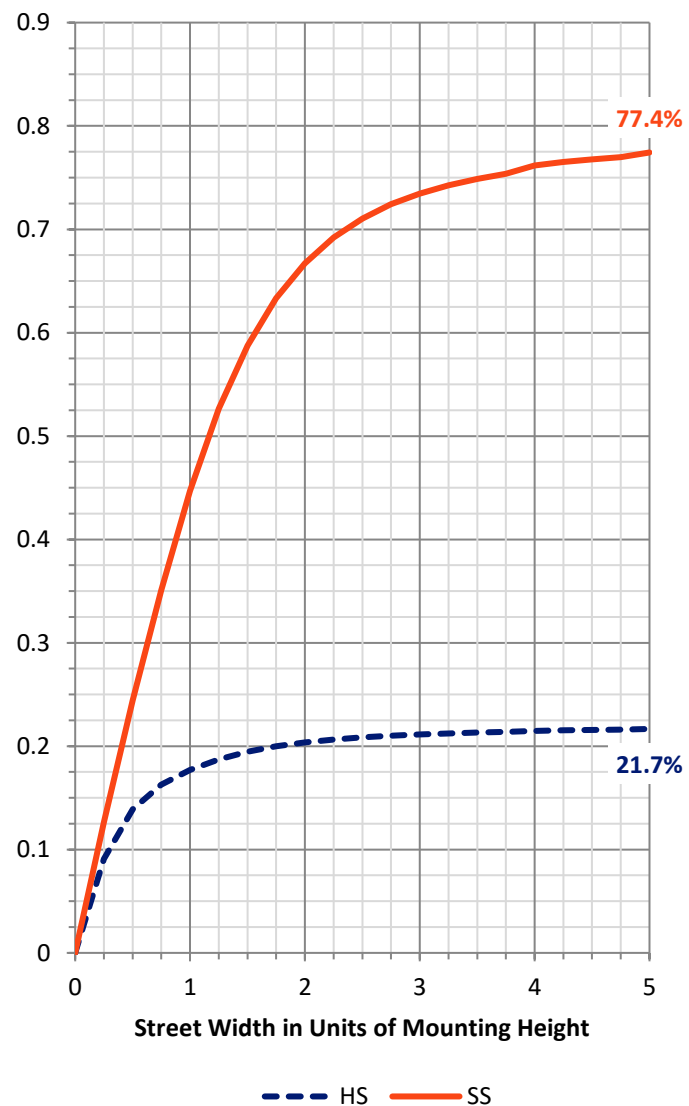
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4167.1	0.0	4167.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14882.9	0.0	14882.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	19050.0	0.0	19050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.2	2.1
10°-20°	1075.0	5.6
20°-30°	1857.1	9.7
30°-40°	2158.2	11.3
40°-50°	3011.1	15.8
50°-60°	4085.8	21.4
60°-70°	3887.1	20.4
70°-80°	2099.9	11.0
80°-90°	470.6	2.5
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°	19050.0	100.0
0°-180°	19050.0	100.0

Coefficient of Utilization



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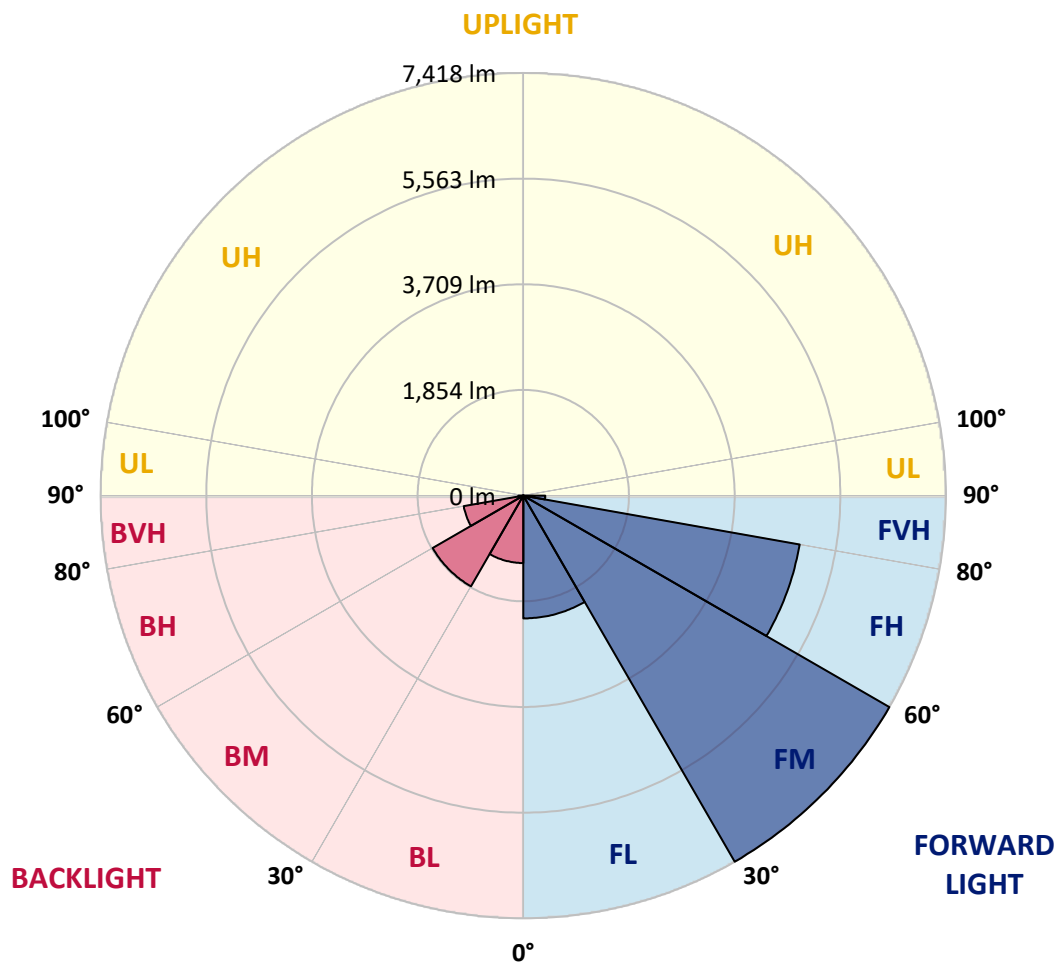
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2154.6	11.3			
FM	(30°-60°)	7417.7	38.9			
FH	(60°-80°)	4926.0	25.9			G2/5000
FVH	(80°-90°)	384.6	2.0			G3/500
BL	(0°-30°)	1182.6	6.2	B3/2500		
BM	(30°-60°)	1837.4	9.6	B2/2500		
BH	(60°-80°)	1061.0	5.6	B3/2500		G3/2500
BVH	(80°-90°)	86.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8
2.5°	5311.2	5291.1	5234.5	5086.2	4936.6	4784.6	4667.7	4521.9	4369.8	4288.1	4183.8
5°	5384.1	5361.4	5228.2	4893.9	4591.0	4273.1	4019.2	3796.7	3706.3	3573.0	3466.2
7.5°	5213.1	5203.1	5003.3	4523.2	4108.4	3692.4	3404.6	3226.2	3064.0	3003.7	3016.3
10°	5057.3	5017.1	4767.0	4139.8	3656.0	3317.9	3111.8	2937.1	2822.7	2792.6	2798.9
12.5°	4927.8	4873.8	4578.5	3882.2	3458.7	3188.5	2925.8	2743.6	2639.2	2668.2	2766.2
15°	4901.5	4828.6	4499.3	3794.2	3350.6	3002.5	2714.7	2504.8	2426.8	2489.7	2646.8
17.5°	5072.4	4980.6	4635.0	3823.1	3247.5	2812.7	2459.5	2219.5	2154.1	2254.7	2459.5
20°	5621.6	5485.9	5058.6	3990.3	3237.5	2718.4	2311.2	2069.9	2097.6	2288.6	2502.3
22.5°	6637.1	6433.5	5800.1	4234.1	3290.3	2694.5	2281.1	2155.4	2307.5	2469.6	2610.3
25°	6838.2	6678.5	5933.3	4289.4	3278.9	2678.2	2366.5	2429.4	2599.0	2679.5	2630.4
27.5°	6951.3	6769.0	5924.5	4015.4	2932.1	2429.4	2262.2	2366.5	2409.3	2331.3	2198.1
30°	7215.2	7025.4	6074.0	3727.6	2414.3	1802.2	1579.8	1537.0	1566.0	1581.0	1533.3
32.5°	7578.4	7391.1	6355.6	3539.1	2087.5	1490.5	1271.9	1211.5	1197.7	1181.4	1162.5
35°	8048.4	7760.6	6632.0	3418.5	1953.0	1378.7	1177.6	1131.1	1112.3	1089.6	1069.5
37.5°	8526.0	8224.4	6981.4	3291.5	1863.8	1300.8	1114.8	1093.4	1060.7	1036.8	1007.9
40°	9033.8	8695.7	7299.4	3180.9	1777.1	1250.5	1069.5	1067.0	1024.3	996.6	962.7
42.5°	9473.6	9125.5	7583.4	3113.1	1710.5	1197.7	1041.9	1049.4	1005.4	964.0	920.0
45°	9823.0	9481.2	7846.1	3113.1	1656.4	1144.9	1036.8	1031.8	987.8	936.3	886.0
47.5°	10129.7	9776.5	8102.5	3192.2	1622.5	1100.9	1009.2	1018.0	972.8	907.4	858.4
50°	10367.2	10055.5	8448.1	3315.4	1588.6	1065.8	974.0	1021.8	960.2	892.3	835.8
52.5°	10670.1	10391.1	8864.1	3483.8	1559.7	1026.8	942.6	1021.8	958.9	893.6	832.0
55°	11089.9	10795.8	9365.6	3623.3	1513.2	990.3	914.9	992.9	955.2	887.3	821.9
57.5°	11383.9	11164.0	9720.0	3716.3	1446.6	943.8	889.8	965.2	938.8	863.4	791.8
58°	11397.8	11182.9	9771.5	3737.7	1430.2	935.0	883.5	952.6	931.3	853.4	781.7
60°	11239.4	11054.7	9781.5	3707.5	1337.2	891.1	850.8	901.1	891.1	794.3	727.7
62.5°	10663.8	10466.5	9375.6	3462.4	1214.1	837.0	800.6	832.0	809.4	711.3	649.8
65°	9845.6	9482.4	8541.1	3077.9	1126.1	779.2	732.7	735.2	711.3	641.0	586.9
67.5°	8756.0	8350.1	7231.5	2594.0	1059.5	715.1	652.3	646.0	617.1	571.8	527.8
70°	7415.0	7137.3	5876.7	2110.1	985.3	644.7	561.8	558.0	540.4	506.5	467.5
72.5°	6009.9	5656.8	4745.6	1689.1	894.8	576.9	477.6	485.1	462.5	438.6	403.4
75°	4435.2	4203.9	3668.6	1354.8	772.9	502.7	398.4	400.9	390.9	365.7	338.1
77.5°	2920.8	2851.6	2624.2	889.8	594.5	399.7	325.5	328.0	320.5	297.9	269.0
80°	1965.6	1919.1	1778.3	573.1	397.1	289.1	251.4	253.9	252.6	228.7	189.8
82.5°	1211.5	1191.4	1146.2	387.1	275.2	207.4	165.9	173.4	187.3	160.9	129.4
85°	571.8	573.1	692.5	211.1	162.1	133.2	90.5	96.8	96.8	96.8	72.9
87.5°	74.2	77.9	95.5	89.2	59.1	50.3	32.7	27.6	23.9	31.4	22.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8
2.5°	4147.4	4122.3	4068.2	4055.6	4048.1	4069.5	4012.9	4028.0	4002.9	4073.2	4061.9
5°	3472.5	3475.0	3519.0	3547.9	3558.0	3547.9	3510.2	3444.8	3394.6	3374.5	3379.5
7.5°	2992.4	3036.4	3111.8	3196.0	3272.7	3295.3	3273.9	3149.5	3013.8	2928.3	2900.7
10°	2832.8	2891.9	2978.6	3045.2	3113.1	3167.1	3178.4	3081.6	2920.8	2718.4	2639.2
12.5°	2841.6	2922.0	3005.0	3026.3	3020.1	3041.4	3031.4	3015.0	2909.5	2651.8	2519.9
15°	2758.6	2854.2	2912.0	2900.7	2880.5	2861.7	2835.3	2793.8	2756.1	2575.2	2429.4
17.5°	2567.6	2665.6	2713.4	2717.2	2717.2	2712.1	2648.0	2633.0	2627.9	2540.0	2450.7
20°	2602.8	2656.8	2635.5	2600.3	2610.3	2644.3	2606.6	2599.0	2627.9	2666.9	2650.6
22.5°	2622.9	2604.1	2443.2	2287.3	2252.2	2357.7	2379.1	2463.3	2580.2	2720.9	2812.7
25°	2498.5	2346.4	2058.6	1882.7	1783.4	1881.4	2009.6	2165.4	2340.1	2521.1	2627.9
27.5°	2088.8	1973.2	1767.0	1608.7	1522.0	1537.0	1646.4	1788.4	1950.5	2072.4	2150.4
30°	1573.5	1522.0	1415.1	1361.1	1308.3	1295.7	1342.2	1396.3	1467.9	1483.0	1503.1
32.5°	1158.8	1151.2	1157.5	1139.9	1129.8	1128.6	1114.8	1127.3	1134.9	1143.7	1126.1
35°	1048.2	1038.1	1020.5	1015.5	1009.2	1011.7	1005.4	999.1	1004.2	1011.7	1016.7
37.5°	991.6	976.5	951.4	942.6	942.6	946.4	936.3	933.8	942.6	966.5	979.0
40°	947.6	930.0	901.1	889.8	897.3	907.4	893.6	888.5	909.9	935.0	955.2
42.5°	906.1	892.3	864.7	852.1	858.4	877.2	857.1	853.4	881.0	908.7	932.5
45°	871.0	857.1	832.0	825.7	828.2	845.8	832.0	832.0	858.4	888.5	909.9
47.5°	843.3	825.7	809.4	804.3	806.9	816.9	814.4	814.4	839.5	871.0	892.3
50°	815.7	800.6	779.2	781.7	788.0	801.8	800.6	804.3	829.5	868.4	891.1
52.5°	803.1	780.5	756.6	759.1	777.9	794.3	789.3	793.0	821.9	894.8	927.5
55°	789.3	759.1	731.4	735.2	756.6	780.5	774.2	779.2	813.1	912.4	957.7
57.5°	762.9	727.7	697.5	700.0	731.4	756.6	746.5	752.8	793.0	893.6	941.3
58°	751.6	721.4	692.5	693.7	723.9	751.6	740.2	745.3	786.7	888.5	933.8
60°	703.8	686.2	661.1	662.3	691.2	715.1	708.8	713.9	754.1	852.1	886.0
62.5°	638.4	628.4	622.1	622.1	639.7	662.3	668.6	674.9	711.3	770.4	800.6
65°	568.1	568.1	569.3	569.3	580.6	609.5	613.3	629.6	663.6	692.5	715.1
67.5°	520.3	517.8	520.3	514.0	519.1	536.6	555.5	570.6	605.8	625.9	633.4
70°	458.7	457.5	458.7	449.9	456.2	471.3	483.9	509.0	545.4	560.5	564.3
72.5°	398.4	398.4	400.9	394.6	394.6	411.0	419.8	447.4	481.3	490.1	491.4
75°	335.6	339.3	339.3	330.5	333.0	343.1	354.4	377.0	408.5	414.7	414.7
77.5°	266.4	280.3	280.3	271.5	275.2	276.5	291.6	302.9	326.8	329.3	319.2
80°	193.5	207.4	218.7	211.1	217.4	209.9	218.7	226.2	250.1	238.8	222.5
82.5°	138.2	148.3	157.1	158.4	152.1	138.2	149.6	150.8	162.1	147.0	138.2
85°	76.7	85.5	96.8	91.7	81.7	72.9	76.7	79.2	77.9	74.2	69.1
87.5°	20.1	21.4	23.9	17.6	16.3	13.8	18.9	18.9	21.4	22.6	21.4
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8
2.5°	4070.7	4126.0	4245.4	4335.9	4446.5	4581.0	4739.3	4898.9	5071.1	5125.2	5200.6
5°	3368.2	3506.4	3564.2	3728.9	3892.3	4137.3	4398.7	4701.6	5033.4	5193.0	5346.4
7.5°	2878.0	2952.2	3012.5	3133.2	3329.2	3627.1	3955.1	4333.4	4803.4	5035.9	5260.9
10°	2614.1	2621.7	2695.8	2845.4	3016.3	3278.9	3589.4	4012.9	4537.0	4819.8	5083.7
12.5°	2439.4	2406.7	2487.2	2643.0	2836.6	3079.1	3364.4	3767.8	4344.7	4635.0	4954.2
15°	2286.1	2234.6	2294.9	2454.5	2645.5	2930.8	3237.5	3664.8	4269.3	4607.4	4961.8
17.5°	2289.9	2147.8	2169.2	2303.7	2493.5	2783.8	3155.8	3661.0	4383.7	4773.3	5193.0
20°	2572.6	2345.2	2248.4	2273.5	2457.0	2773.7	3193.5	3837.0	4759.4	5327.5	5776.2
22.5°	2850.4	2713.4	2557.6	2506.0	2606.6	2938.4	3433.5	4253.0	5576.4	6432.2	7242.8
25°	2753.6	2870.5	2831.5	2758.6	2781.3	3056.5	3596.9	4594.8	6211.0	7175.0	7936.6
27.5°	2203.1	2415.5	2458.3	2457.0	2465.8	2692.0	3235.0	4364.8	6290.2	7317.0	8044.7
30°	1548.4	1567.2	1589.8	1633.8	1674.0	1876.4	2531.2	3831.9	6255.0	7381.1	8110.0
32.5°	1117.3	1142.4	1173.8	1234.2	1329.7	1587.3	2214.5	3662.3	6441.0	7646.3	8301.1
35°	1021.8	1050.7	1080.8	1150.0	1240.4	1479.2	2088.8	3591.9	6746.4	8076.1	8644.2
37.5°	991.6	1024.3	1050.7	1100.9	1173.8	1401.3	1974.4	3544.1	7059.4	8531.0	9104.1
40°	970.2	1007.9	1029.3	1069.5	1119.8	1329.7	1872.6	3506.4	7362.2	8947.0	9473.6
42.5°	951.4	990.3	1018.0	1046.9	1088.4	1265.6	1782.1	3468.7	7624.9	9350.5	9841.9
45°	928.8	977.8	1013.0	1035.6	1072.0	1211.5	1713.0	3438.6	7924.0	9708.7	10213.9
47.5°	909.9	964.0	1007.9	1034.3	1048.2	1173.8	1657.7	3480.0	8283.5	10083.2	10559.5
50°	911.2	962.7	1018.0	1059.5	1023.0	1142.4	1623.8	3644.7	8751.0	10528.1	10832.2
52.5°	951.4	1014.2	1058.2	1068.3	987.8	1104.7	1606.2	3932.5	9304.0	10921.5	11107.5
55°	996.6	1062.0	1109.7	1103.5	969.0	1057.0	1602.4	4239.1	9909.7	11380.2	11465.6
57.5°	980.3	1075.8	1148.7	1116.0	970.2	1010.5	1586.1	4486.7	10416.2	11723.3	11820.1
58°	975.3	1070.8	1153.7	1113.5	966.5	996.6	1582.3	4508.1	10486.6	11747.2	11870.3
60°	926.2	1026.8	1150.0	1094.7	945.1	958.9	1540.8	4577.2	10467.8	11624.0	11900.5
62.5°	837.0	920.0	1063.2	1002.9	879.7	908.7	1447.8	4491.7	9957.5	11030.8	11459.4
65°	736.5	798.1	893.6	882.3	786.7	857.1	1320.9	4153.7	8935.7	10068.1	10519.3
67.5°	661.1	711.3	771.7	755.3	707.6	788.0	1183.9	3581.8	7789.5	8911.9	9479.9
70°	584.4	623.4	653.5	642.2	627.1	720.1	1062.0	2906.9	6691.1	7813.4	8363.9
72.5°	506.5	542.9	568.1	551.7	542.9	648.5	962.7	2255.9	5284.8	6446.0	7153.6
75°	423.5	460.0	477.6	458.7	453.7	571.8	815.7	1685.3	3965.2	4969.3	5580.1
77.5°	328.0	367.0	389.6	383.3	385.8	470.0	658.6	1153.7	2835.3	3387.0	4030.5
80°	230.0	272.7	287.8	281.5	299.1	358.2	465.0	732.7	1955.6	2198.1	2651.8
82.5°	142.0	182.2	184.7	191.0	203.6	265.2	350.6	446.2	1227.9	1269.4	1598.6
85°	71.6	86.7	93.0	103.1	114.4	162.1	199.8	276.5	790.5	598.2	893.6
87.5°	23.9	25.1	30.2	37.7	46.5	66.6	85.5	113.1	196.1	108.1	276.5
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8	4780.8
2.5°	5352.6	5459.5	5537.4	5609.0	5539.9	5533.6	5465.8	5356.4	5311.2	5311.2
5°	5668.1	5918.2	6120.5	6250.0	6194.7	6061.5	5841.5	5561.3	5410.5	5384.1
7.5°	5754.8	6248.7	6624.5	6757.7	6664.7	6370.6	5949.6	5477.1	5260.9	5213.1
10°	5702.0	6344.2	6896.0	7107.1	6977.7	6532.8	5958.4	5379.0	5112.6	5057.3
12.5°	5646.7	6356.8	6946.2	7251.6	7167.4	6663.5	6022.5	5314.9	5007.0	4927.8
15°	5686.9	6361.8	6884.7	7200.1	7254.2	6820.6	6128.1	5361.4	4985.7	4901.5
17.5°	5940.8	6457.4	6796.7	7051.8	7241.6	7034.2	6428.4	5583.9	5176.7	5072.4
20°	6471.2	6686.1	6847.0	7044.3	7349.7	7470.3	7043.0	6194.7	5713.3	5621.6
22.5°	8007.0	7968.0	7638.7	7635.0	8077.3	8561.2	8532.3	7436.4	6712.5	6637.1
25°	8582.6	8401.6	7925.3	7809.7	8004.5	8751.0	8642.9	7690.3	7021.7	6838.2
27.5°	8357.6	7908.9	7596.0	7569.6	7505.5	8210.6	8470.7	7793.3	7129.7	6951.3
30°	8343.8	7684.0	7236.6	7289.3	7350.9	8024.6	8566.2	8116.3	7406.2	7215.2
32.5°	8377.7	7715.4	7263.0	7273.0	7456.5	8052.2	8671.8	8468.2	7769.4	7578.4
35°	8514.7	7893.9	7431.4	7407.5	7694.0	8233.2	8851.5	9021.2	8265.9	8048.4
37.5°	8735.9	8249.5	7739.3	7733.0	8149.0	8560.0	9075.2	9579.2	8759.8	8526.0
40°	9061.4	8665.5	8287.2	8253.3	8767.3	9091.6	9365.6	10173.7	9334.1	9033.8
42.5°	9454.8	9164.5	9009.9	9144.4	9638.3	9688.5	9818.0	10722.9	9823.0	9473.6
45°	9819.3	9805.4	10020.3	10377.3	10665.1	10363.4	10290.5	11091.1	10202.6	9823.0
47.5°	10252.8	10627.4	11275.9	11798.7	12100.3	11148.9	10694.0	11331.2	10479.1	10129.7
50°	10692.7	11611.4	12647.0	13376.0	13440.0	12002.3	10971.7	11557.4	10730.4	10367.2
52.5°	11155.2	12396.9	13775.6	14622.7	14498.3	12745.0	11240.7	11710.7	10989.3	10670.1
55°	11557.4	12878.3	14406.5	15219.7	15037.4	13197.5	11531.0	11876.6	11358.8	11089.9
57.5°	11782.3	12918.5	14249.4	14959.5	14762.2	13109.5	11664.2	11999.8	11595.1	11383.9
58°	11815.0	12864.4	14109.9	14808.7	14607.6	13035.4	11663.0	11994.7	11610.2	11397.8
60°	11786.1	12513.8	13590.9	14213.0	14001.8	12570.4	11615.2	11900.5	11419.1	11239.4
62.5°	11518.4	11905.5	12694.8	13147.2	13086.9	11843.9	11419.1	11544.8	10837.2	10663.8
65°	11166.5	11076.0	11547.3	11867.8	11913.1	11299.7	11224.3	10775.7	10090.7	9845.6
67.5°	10739.2	10136.0	10134.7	10316.9	10392.3	10462.7	10818.4	9939.9	9014.9	8756.0
70°	10014.1	8686.9	8287.2	8502.1	8439.3	9033.8	10093.2	8766.1	7717.9	7415.0
72.5°	8684.4	6893.5	6253.8	6530.2	6371.9	7084.5	8831.4	7213.9	6381.9	6009.9
75°	7039.2	5156.6	4496.8	4750.6	4652.6	5374.0	7348.4	5239.5	4577.2	4435.2
77.5°	5465.8	3736.4	3353.1	3317.9	3390.8	3999.1	5390.3	3537.8	3017.5	2920.8
80°	3511.5	2674.4	2697.1	2651.8	2689.5	2521.1	3272.7	2257.2	2043.5	1965.6
82.5°	2311.2	1863.8	2222.0	2051.1	1948.0	1695.4	2146.6	1478.0	1254.3	1211.5
85°	1574.8	1372.4	1249.2	955.2	1124.8	1305.8	1609.9	795.5	630.9	571.8
87.5°	711.3	477.6	350.6	216.2	341.8	394.6	781.7	93.0	71.6	74.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)