

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: P531462

Luminaire Tested: **GALN-SA6D-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531462
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31115 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G3

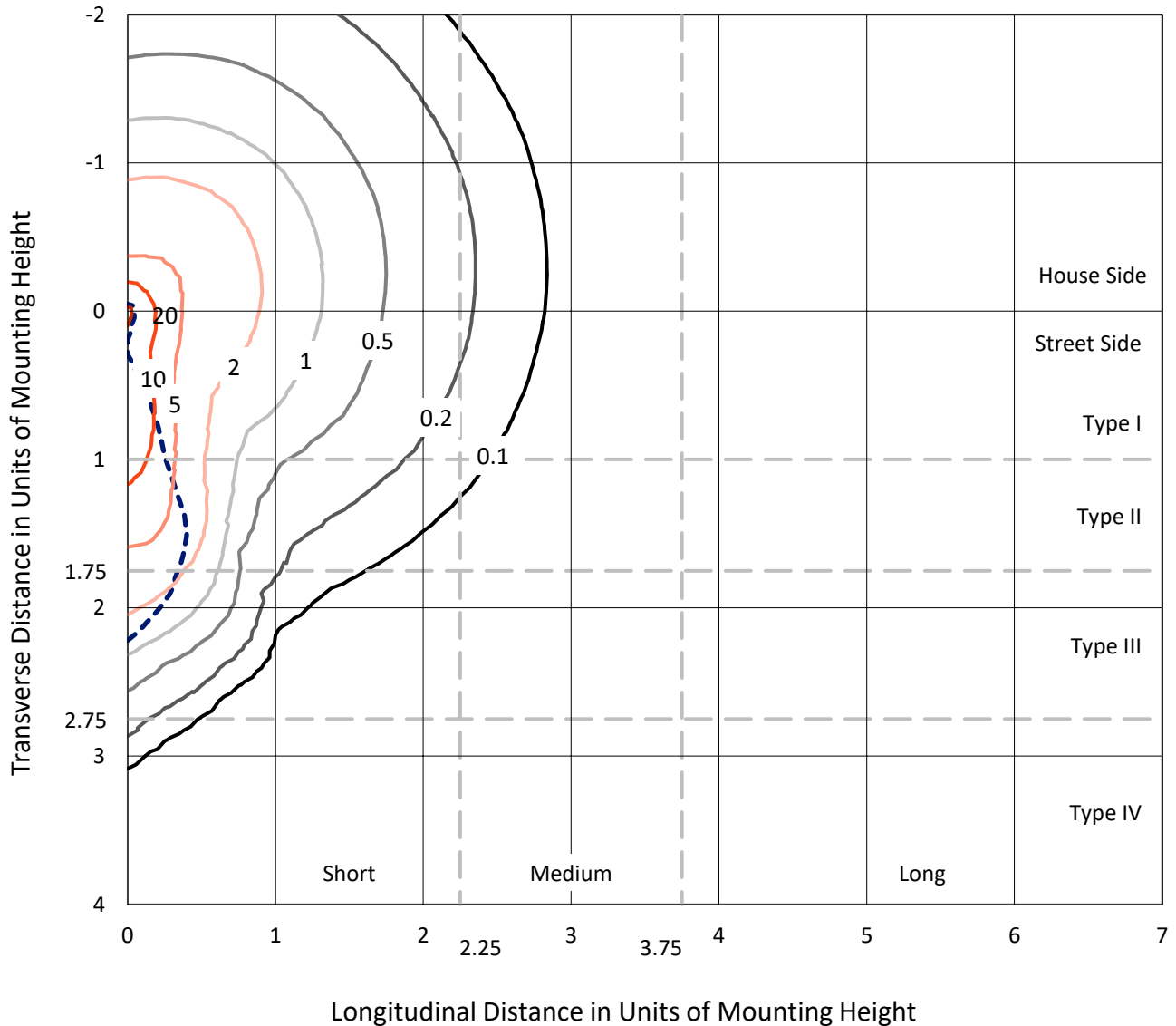
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

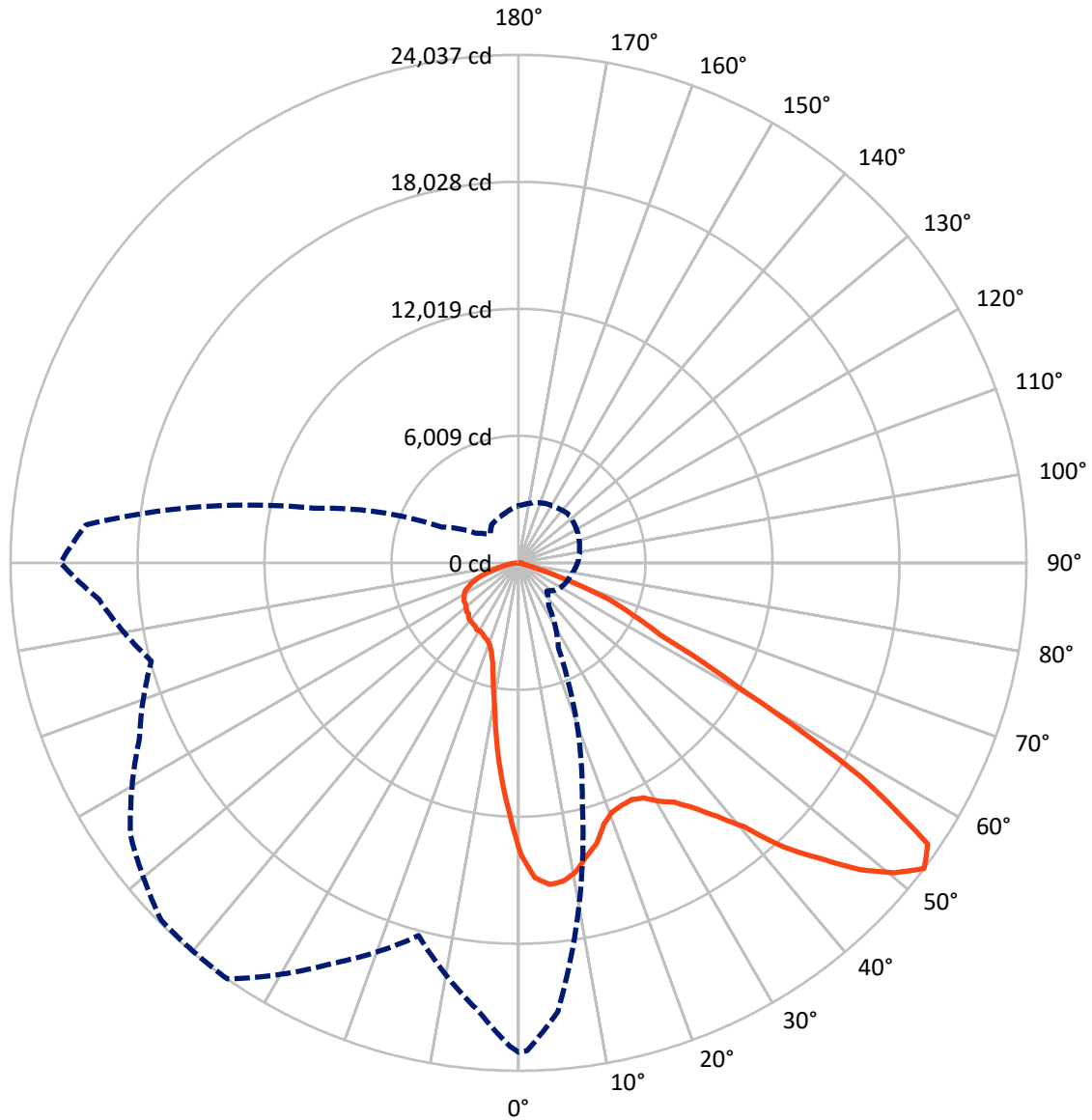
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 325-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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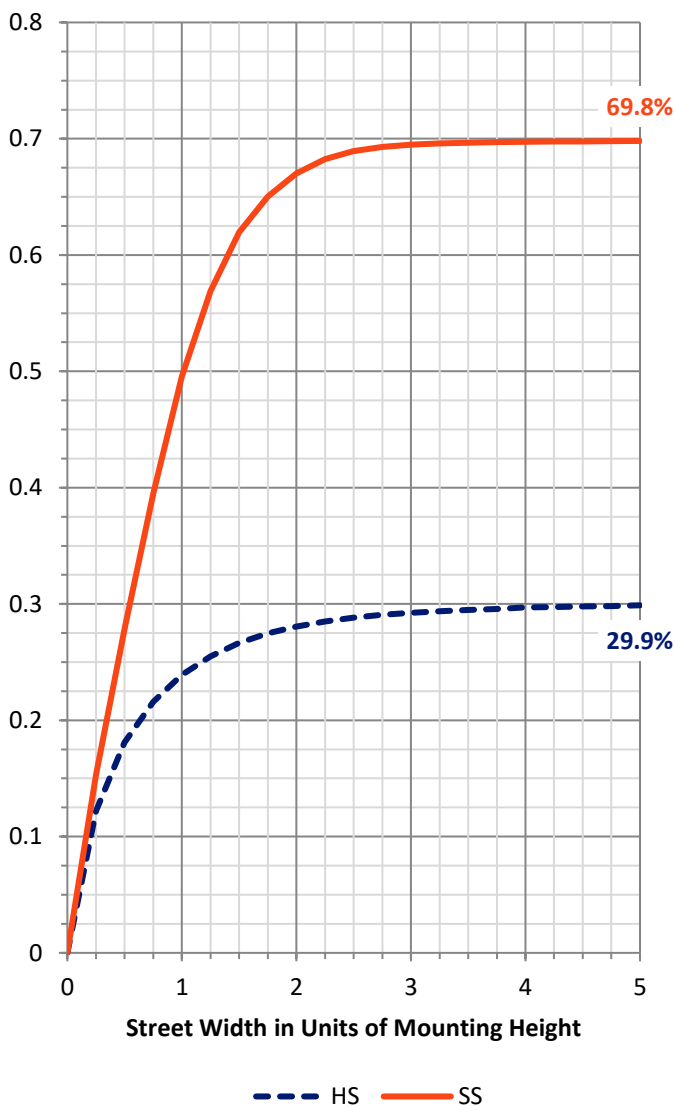
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9379.9	0.0	9379.9
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	21735.1	0.0	21735.1
	% Fixture	69.9	0.0	69.9
Total	Lumens	31115.0	0.0	31115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.5	3.4
10°-20°	2283.9	7.3
20°-30°	3450.7	11.1
30°-40°	4986.4	16.0
40°-50°	6636.0	21.3
50°-60°	7422.6	23.9
60°-70°	4183.3	13.4
70°-80°	932.5	3.0
80°-90°	166.1	0.5
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°	31115.0	100.0
0°-180°	31115.0	100.0

Coefficient of Utilization



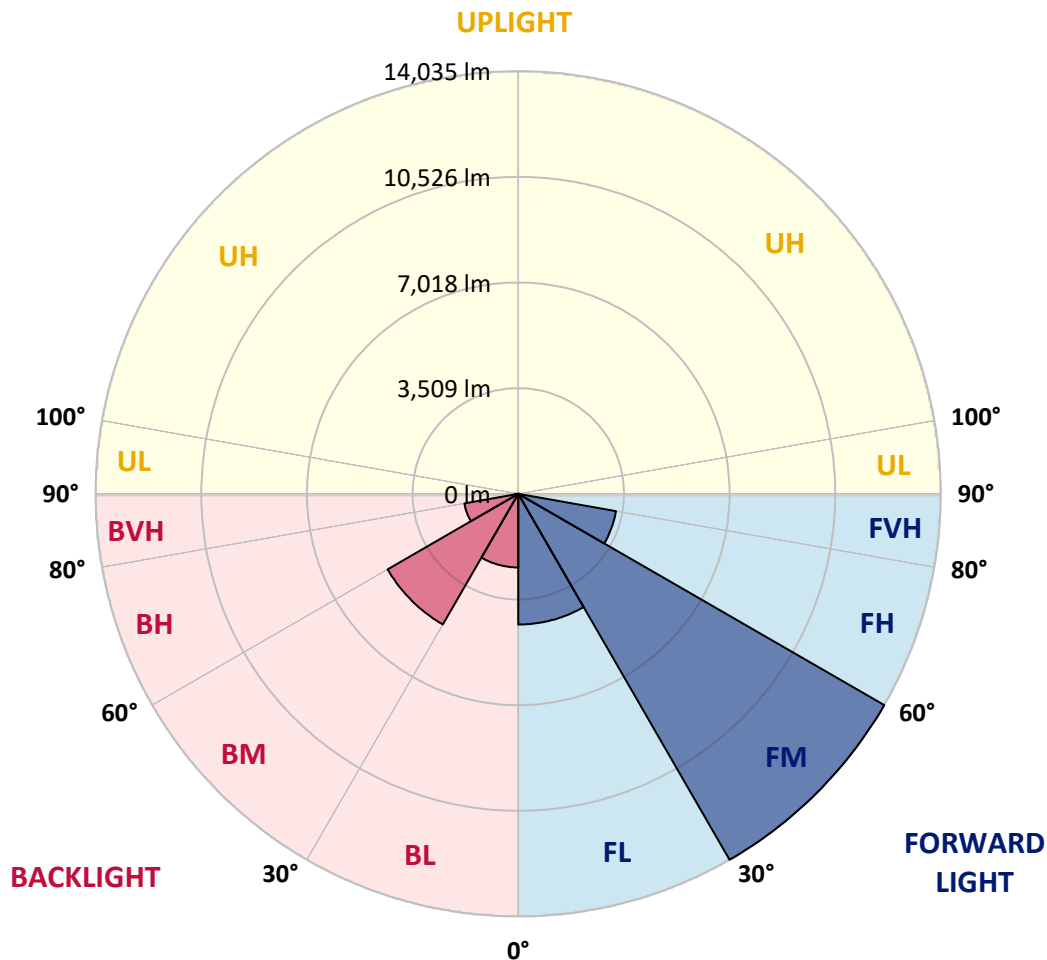
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4342.0	14.0			
FM (30°-60°)	14035.2	45.1			
FH (60°-80°)	3297.7	10.6			G2/5000
FVH (80°-90°)	60.1	0.2			G1/100
BL (0°-30°)	2446.0	7.9	B3/2500		
BM (30°-60°)	5009.8	16.1	B4/8500		
BH (60°-80°)	1818.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	105.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0
2.5°	14039.0	14264.5	14021.0	13588.0	13281.4	13001.8	12708.6	12650.0	12266.7	12199.0	11919.4
5°	13240.8	13191.2	12893.5	12325.3	11698.4	11130.2	10710.8	10304.9	10029.8	9709.6	9687.1
7.5°	12271.2	11982.6	11811.2	10949.8	10174.1	9281.2	8897.8	8280.0	8086.1	7797.5	7648.6
10°	11405.3	11193.3	10792.0	9930.6	8848.2	8257.5	7847.1	7513.3	7287.8	6990.2	6615.9
12.5°	10976.9	10891.2	10440.2	9105.3	8302.6	7671.2	7382.6	7057.8	6674.5	6196.5	6011.6
15°	11053.5	10764.9	10422.2	8947.5	7838.0	7229.2	6769.2	6363.3	5871.8	5416.3	5150.2
17.5°	11626.3	11405.3	10719.8	9046.7	7662.2	6782.7	5948.4	5348.6	4906.7	4496.3	4311.4
20°	12753.7	12433.5	11662.4	9172.9	7283.3	6160.4	5204.3	4464.7	3991.2	3774.7	3711.6
22.5°	14002.9	13813.5	12582.4	9457.1	6981.2	5583.1	4415.1	3675.5	3499.6	3441.0	3558.2
25°	15522.8	15031.2	14012.0	9921.6	6746.7	5091.6	3747.6	3337.3	3247.1	3305.7	3441.0
27.5°	16677.3	16546.5	15013.1	10359.0	6426.5	4500.8	3373.3	3102.7	3129.8	3188.4	3314.7
30°	18048.2	17385.3	15982.8	10661.2	6137.8	4094.9	3111.8	3039.6	3066.7	3165.9	3229.0
32.5°	18873.5	18625.5	16591.6	11116.7	5804.1	3743.1	2908.8	2841.2	2881.8	3030.6	3179.4
35°	19924.3	19432.8	17344.7	11233.9	5569.6	3603.3	2764.5	2714.9	2809.6	2913.3	3080.2
37.5°	21151.0	20812.8	18386.5	11152.8	5443.3	3459.0	2642.7	2620.2	2687.8	2832.2	3026.1
40°	21877.1	21773.3	18932.2	11202.4	5244.9	3332.7	2502.9	2530.0	2669.8	2782.6	2972.0
42.5°	22576.1	21899.6	19739.4	11184.3	5118.6	3161.4	2516.5	2484.9	2593.1	2723.9	2904.3
45°	22729.4	22057.5	19928.8	11058.0	4965.3	2994.5	2412.7	2426.3	2557.1	2719.4	2836.7
47.5°	22630.2	22134.1	20280.6	11022.0	4821.0	2877.3	2259.4	2421.8	2498.4	2629.2	2796.1
50°	22562.6	22535.5	20578.2	11193.3	4627.1	2692.4	2074.5	2363.1	2439.8	2570.6	2751.0
52.5°	23157.9	23099.2	21322.4	11644.3	4473.7	2493.9	1885.1	2214.3	2399.2	2525.5	2701.4
55°	23518.6	23261.6	22598.6	12199.0	4216.7	2232.4	1754.3	2029.4	2300.0	2412.7	2593.1
57.5°	21155.5	20979.6	20443.0	11387.3	3783.7	1889.6	1592.0	1840.0	2164.7	2340.6	2525.5
60°	17601.8	17326.7	15951.2	9678.0	2791.6	1470.2	1492.7	1691.2	2128.6	2196.3	2412.7
62.5°	16596.1	15915.1	14043.5	7788.4	2142.2	1262.7	1339.4	1555.9	1939.2	2052.0	2268.4
65°	13168.6	12663.5	10047.8	5623.7	1434.1	1095.9	1222.2	1402.5	1673.1	1894.1	2092.6
67.5°	8243.9	7761.4	5362.2	2660.8	1001.2	938.0	1091.4	1280.8	1501.8	1700.2	1921.2
70°	4306.9	3779.2	2475.9	960.6	690.0	766.7	911.0	1091.4	1307.8	1470.2	1641.6
72.5°	1605.5	1303.3	807.3	414.9	478.0	586.3	739.6	870.4	1023.7	1222.2	1316.9
75°	248.0	212.0	207.5	252.5	324.7	423.9	527.6	658.4	793.7	920.0	983.1
77.5°	117.3	112.7	126.3	166.9	216.5	302.2	383.3	509.6	617.8	699.0	735.1
80°	76.7	72.2	81.2	112.7	162.4	225.5	306.7	392.4	491.6	559.2	550.2
82.5°	45.1	49.6	49.6	76.7	112.7	162.4	221.0	297.6	365.3	423.9	387.8
85°	27.1	22.5	22.5	45.1	76.7	130.8	184.9	126.3	130.8	130.8	148.8
87.5°	9.0	9.0	9.0	4.5	9.0	9.0	13.5	22.5	27.1	31.6	40.6
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°	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0
2.5°	11910.4	12050.2	12000.6	11824.7	11960.0	11982.6	11892.4	12203.5	12262.2	12167.5	12194.5
5°	9655.5	9691.6	9772.8	9944.1	10065.9	10210.2	10210.2	10219.2	10097.5	10404.1	10313.9
7.5°	7522.4	7544.9	7639.6	8004.9	8108.6	8383.7	8501.0	8419.8	8176.3	8072.6	8158.2
10°	6494.1	6363.3	6331.8	6376.9	6611.4	6728.6	6827.8	6800.8	6760.2	6679.0	6588.8
12.5°	5808.6	5713.9	5637.3	5529.0	5542.6	5655.3	5732.0	5668.8	5686.9	5704.9	5732.0
15°	5064.5	4996.9	4956.3	4793.9	4775.9	4852.6	4879.6	4915.7	4983.3	4987.8	4956.3
17.5°	4275.3	4216.7	4306.9	4397.1	4333.9	4338.4	4388.0	4419.6	4401.6	4320.4	4279.8
20°	3734.1	3797.3	3887.5	3973.1	4040.8	4081.4	4099.4	4049.8	3991.2	3824.3	3819.8
22.5°	3576.3	3657.5	3734.1	3864.9	3928.0	4031.8	3937.1	3824.3	3743.1	3662.0	3567.3
25°	3459.0	3526.7	3680.0	3729.6	3851.4	3937.1	3869.4	3756.7	3616.9	3499.6	3427.5
27.5°	3373.3	3450.0	3549.2	3684.5	3779.2	3828.8	3761.2	3716.1	3571.8	3432.0	3328.2
30°	3319.2	3400.4	3580.8	3693.5	3774.7	3815.3	3698.0	3643.9	3540.2	3422.9	3332.7
32.5°	3283.1	3355.3	3508.6	3652.9	3707.1	3707.1	3725.1	3662.0	3517.6	3319.2	3242.6
35°	3165.9	3265.1	3391.4	3558.2	3657.5	3716.1	3625.9	3553.7	3459.0	3256.1	3116.3
37.5°	3098.2	3165.9	3328.2	3486.1	3571.8	3634.9	3598.8	3472.6	3346.3	3179.4	3066.7
40°	3026.1	3134.3	3278.6	3427.5	3522.2	3585.3	3558.2	3409.4	3256.1	3098.2	3021.6
42.5°	2976.5	3048.6	3197.5	3364.3	3477.1	3598.8	3517.6	3332.7	3224.5	3008.0	2922.4
45°	2935.9	3053.1	3211.0	3278.6	3395.9	3522.2	3377.8	3265.1	3138.8	2981.0	2908.8
47.5°	2886.3	2994.5	3098.2	3278.6	3332.7	3391.4	3364.3	3183.9	3075.7	2904.3	2854.7
50°	2868.2	2908.8	3098.2	3197.5	3274.1	3332.7	3260.6	3125.3	3021.6	2845.7	2737.5
52.5°	2796.1	2872.7	2994.5	3125.3	3220.0	3292.2	3174.9	3089.2	2949.4	2764.5	2696.9
55°	2705.9	2751.0	2967.5	3102.7	3152.4	3202.0	3156.9	3017.1	2872.7	2683.3	2615.7
57.5°	2588.6	2692.4	2868.2	3057.6	3120.8	3147.8	3075.7	2962.9	2782.6	2615.7	2507.5
60°	2466.9	2575.1	2769.0	2922.4	2985.5	3084.7	2976.5	2908.8	2701.4	2516.5	2399.2
62.5°	2345.1	2466.9	2611.2	2805.1	2859.2	2899.8	2872.7	2778.0	2611.2	2403.7	2259.4
65°	2200.8	2291.0	2471.4	2570.6	2606.7	2701.4	2606.7	2570.6	2421.8	2223.3	2101.6
67.5°	1984.3	2061.0	2218.8	2313.5	2340.6	2381.2	2376.7	2336.1	2169.2	2033.9	1925.7
70°	1736.3	1803.9	1903.1	2015.9	2029.4	2079.0	2033.9	2024.9	1916.7	1731.8	1673.1
72.5°	1393.5	1456.7	1587.5	1637.1	1641.6	1659.6	1637.1	1605.5	1578.4	1384.5	1325.9
75°	1068.8	1104.9	1168.0	1213.1	1213.1	1235.7	1222.2	1190.6	1118.4	996.7	938.0
77.5°	744.1	780.2	861.4	888.4	883.9	892.9	852.4	820.8	712.5	649.4	599.8
80°	541.2	563.7	604.3	622.4	626.9	640.4	590.8	563.7	500.6	428.4	405.9
82.5°	392.4	405.9	410.4	432.9	432.9	410.4	396.9	369.8	324.7	279.6	261.6
85°	162.4	166.9	171.4	198.4	202.9	243.5	225.5	212.0	184.9	157.8	144.3
87.5°	40.6	45.1	58.6	49.6	58.6	58.6	63.1	72.2	72.2	58.6	58.6
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0
2.5°	12298.2	12334.3	12794.3	12852.9	13078.4	13308.4	13772.9	14106.7	14377.3	14553.1	14602.8
5°	10408.6	10638.6	10850.6	11193.3	11504.5	11946.5	12456.1	13087.5	13881.2	14287.1	14449.4
7.5°	8149.2	8419.8	8726.5	9060.2	9515.7	10309.4	10990.4	11721.0	12735.7	13155.1	13791.0
10°	6652.0	6954.1	7360.0	7617.1	8167.3	8924.9	9718.6	10562.0	11531.6	12135.9	12871.0
12.5°	5880.8	6128.8	6503.1	7044.3	7454.7	7946.3	8537.1	9601.4	10990.4	11563.1	12068.2
15°	5028.4	5303.5	5736.5	6336.3	6827.8	7414.1	8077.1	9236.1	10715.3	11599.2	12027.7
17.5°	4324.9	4523.3	4978.8	5497.5	6061.2	6701.6	7653.1	9218.0	11003.9	12135.9	12834.9
20°	3837.8	3864.9	4112.9	4554.9	5321.6	6155.9	7391.6	9127.8	11928.4	13060.4	13944.3
22.5°	3531.2	3504.1	3508.6	3882.9	4419.6	5619.2	6981.2	9434.5	12979.2	14530.6	15125.9
25°	3377.8	3305.7	3260.6	3341.8	3828.8	4983.3	6670.0	9840.4	14111.2	15743.7	16474.3
27.5°	3296.7	3170.4	3080.2	3093.7	3450.0	4663.1	6476.1	10016.3	15234.1	17434.9	17692.0
30°	3265.1	3107.3	2976.5	2931.4	3165.9	4216.7	6061.2	10318.4	16239.8	18363.9	18584.9
32.5°	3152.4	2958.4	2832.2	2791.6	2886.3	3824.3	5763.5	10534.9	17128.2	19374.1	19297.5
35°	3021.6	2859.2	2701.4	2624.7	2692.4	3571.8	5524.5	10431.2	18174.5	20158.8	20118.2
37.5°	3008.0	2796.1	2665.3	2539.0	2534.5	3260.6	5199.8	10530.4	18842.0	21565.9	21011.2
40°	2890.8	2755.5	2584.1	2480.4	2421.8	3102.7	4884.1	10295.9	19820.6	22134.1	21588.4
42.5°	2895.3	2692.4	2543.5	2421.8	2363.1	2872.7	4667.6	10232.8	20163.3	23058.6	21859.0
45°	2823.1	2624.7	2498.4	2354.1	2322.6	2696.9	4460.2	9939.6	20767.7	23103.7	21520.8
47.5°	2751.0	2575.1	2439.8	2268.4	2196.3	2633.7	4297.8	9696.1	20452.0	22679.8	21051.8
50°	2701.4	2498.4	2372.2	2250.4	2047.5	2525.5	4085.9	9637.5	20010.0	22107.1	20181.4
52.5°	2615.7	2435.3	2304.5	2209.8	1885.1	2426.3	4004.7	9980.2	20551.2	21678.6	19928.8
55°	2534.5	2349.6	2182.7	1997.8	1749.8	2164.7	3779.2	10300.4	21340.4	22666.3	21074.3
57.5°	2448.8	2272.9	2092.6	1871.6	1619.0	1894.1	3544.7	10359.0	19861.2	20948.1	20005.5
60°	2336.1	2110.6	1975.3	1686.7	1479.2	1569.4	2809.6	9132.4	15405.5	17493.5	17525.1
62.5°	2209.8	1966.3	1849.0	1510.8	1334.9	1352.9	2291.0	7675.7	12496.7	14481.0	15342.4
65°	2042.9	1808.4	1668.6	1398.0	1231.2	1172.5	1677.6	5623.7	9493.1	11748.0	12726.7
67.5°	1826.5	1605.5	1429.6	1217.6	1100.4	1005.7	1145.5	3165.9	5605.7	7887.7	8185.3
70°	1596.5	1407.1	1222.2	1046.3	915.5	847.8	838.8	1402.5	2678.8	4243.7	4830.0
72.5°	1258.2	1122.9	974.1	843.3	757.6	658.4	599.8	581.8	906.5	1727.3	2385.7
75°	902.0	789.2	703.5	617.8	554.7	500.6	455.5	414.9	378.8	432.9	595.3
77.5°	568.2	527.6	460.0	437.5	401.4	387.8	369.8	347.3	320.2	302.2	302.2
80°	383.3	356.3	333.7	329.2	315.7	311.2	315.7	293.1	266.1	243.5	252.5
82.5°	257.1	252.5	248.0	243.5	248.0	252.5	261.6	257.1	234.5	221.0	225.5
85°	153.3	162.4	171.4	180.4	198.4	175.9	144.3	121.8	108.2	99.2	94.7
87.5°	58.6	81.2	72.2	67.6	72.2	67.6	63.1	58.6	49.6	45.1	45.1
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0	13809.0
2.5°	14932.0	15022.2	15098.8	15080.8	14923.0	14711.0	14625.3	14187.9	14097.7	14039.0
5°	15134.9	15658.0	15770.8	15703.1	15292.8	14774.1	14269.0	13628.6	13254.3	13240.8
7.5°	14760.6	15405.5	15608.4	15761.8	15216.1	14314.1	13448.2	12487.7	12253.1	12271.2
10°	13809.0	14837.3	15337.9	15495.7	14868.8	14088.6	12889.0	11914.9	11414.3	11405.3
12.5°	13281.4	14088.6	14228.4	14449.4	14264.5	13475.3	12564.3	11472.9	10985.9	10976.9
15°	12812.4	13344.5	13385.1	13696.3	13795.5	13263.3	12650.0	11486.5	11094.1	11053.5
17.5°	13222.8	12852.9	12699.6	12740.2	13033.3	13227.3	13146.1	12253.1	11851.8	11626.3
20°	13497.9	12672.6	12208.0	12253.1	12600.4	13308.4	13885.7	13362.6	12726.7	12753.7
22.5°	14233.0	12699.6	11973.5	11923.9	12474.1	13732.4	14720.0	14765.1	14151.8	14002.9
25°	15333.3	13010.8	11901.4	11887.9	12415.5	14187.9	15694.1	16424.7	15797.9	15522.8
27.5°	16217.3	13497.9	12126.9	12172.0	12600.4	14557.7	16523.9	17493.5	17015.5	16677.3
30°	16993.0	14002.9	12442.6	12235.1	13096.5	14751.6	16880.2	18711.2	18327.9	18048.2
32.5°	17313.1	14720.0	12943.1	12600.4	13506.9	14986.1	17619.8	19892.8	19563.5	18873.5
35°	17854.3	15121.4	13213.7	13186.7	14223.9	15549.8	17967.1	20673.0	20537.7	19924.3
37.5°	18287.3	15527.3	14174.3	13876.7	15207.1	16496.9	18526.3	21750.8	21439.6	21151.0
40°	18621.0	16253.3	15071.8	15464.1	16415.7	17358.2	19040.4	21818.4	22715.9	21877.1
42.5°	18314.3	16902.8	16546.5	17484.5	18386.5	18341.4	19099.0	22341.6	23013.5	22576.1
45°	18237.7	18003.1	18878.1	19730.4	19937.9	19157.7	18679.6	21764.3	22923.3	22729.4
47.5°	18052.8	19085.5	20609.8	21998.8	21683.2	19703.3	18179.0	21660.6	22977.5	22630.2
50°	17989.6	19320.0	21890.6	23243.5	23054.1	20176.9	17944.5	20993.2	22594.1	22562.6
52.5°	17985.1	19802.6	22422.8	23920.0	24037.3	20925.5	18264.7	21331.4	22891.8	23157.9
55°	18188.1	19649.2	22355.1	23545.7	23500.6	20591.8	18300.8	21556.9	23257.1	23518.6
57.5°	17155.3	17601.8	18449.6	19392.2	19148.6	17056.1	16343.5	19928.8	21344.9	21155.5
60°	14814.7	13416.7	12460.6	12415.5	11942.0	11288.0	13376.1	17786.7	17786.7	17601.8
62.5°	12974.7	8807.7	7567.5	7215.7	7553.9	8307.1	12902.6	17299.6	16808.0	16596.1
65°	11346.7	6724.1	5470.4	5371.2	5957.5	7093.9	11666.9	14738.0	13872.2	13168.6
67.5°	7301.4	4924.7	4067.8	3892.0	4600.0	5208.8	7765.9	9064.7	8519.0	8243.9
70°	4708.2	3206.5	2263.9	2124.1	2399.2	3211.0	4960.8	5285.5	4491.8	4306.9
72.5°	2227.8	1384.5	793.7	653.9	735.1	1226.7	1961.8	2110.6	1754.3	1605.5
75°	708.0	509.6	324.7	279.6	266.1	315.7	451.0	347.3	252.5	248.0
77.5°	315.7	302.2	257.1	216.5	189.4	157.8	130.8	108.2	112.7	117.3
80°	261.6	239.0	212.0	189.4	157.8	121.8	94.7	72.2	72.2	76.7
82.5°	230.0	207.5	184.9	157.8	135.3	99.2	72.2	49.6	45.1	45.1
85°	99.2	117.3	126.3	135.3	108.2	81.2	49.6	31.6	27.1	27.1
87.5°	40.6	36.1	31.6	27.1	22.5	22.5	18.0	13.5	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)