

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: P533488

Luminaire Tested: **GALN-SA8D-830-U-SLL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-24)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-SLL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36969 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 493
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

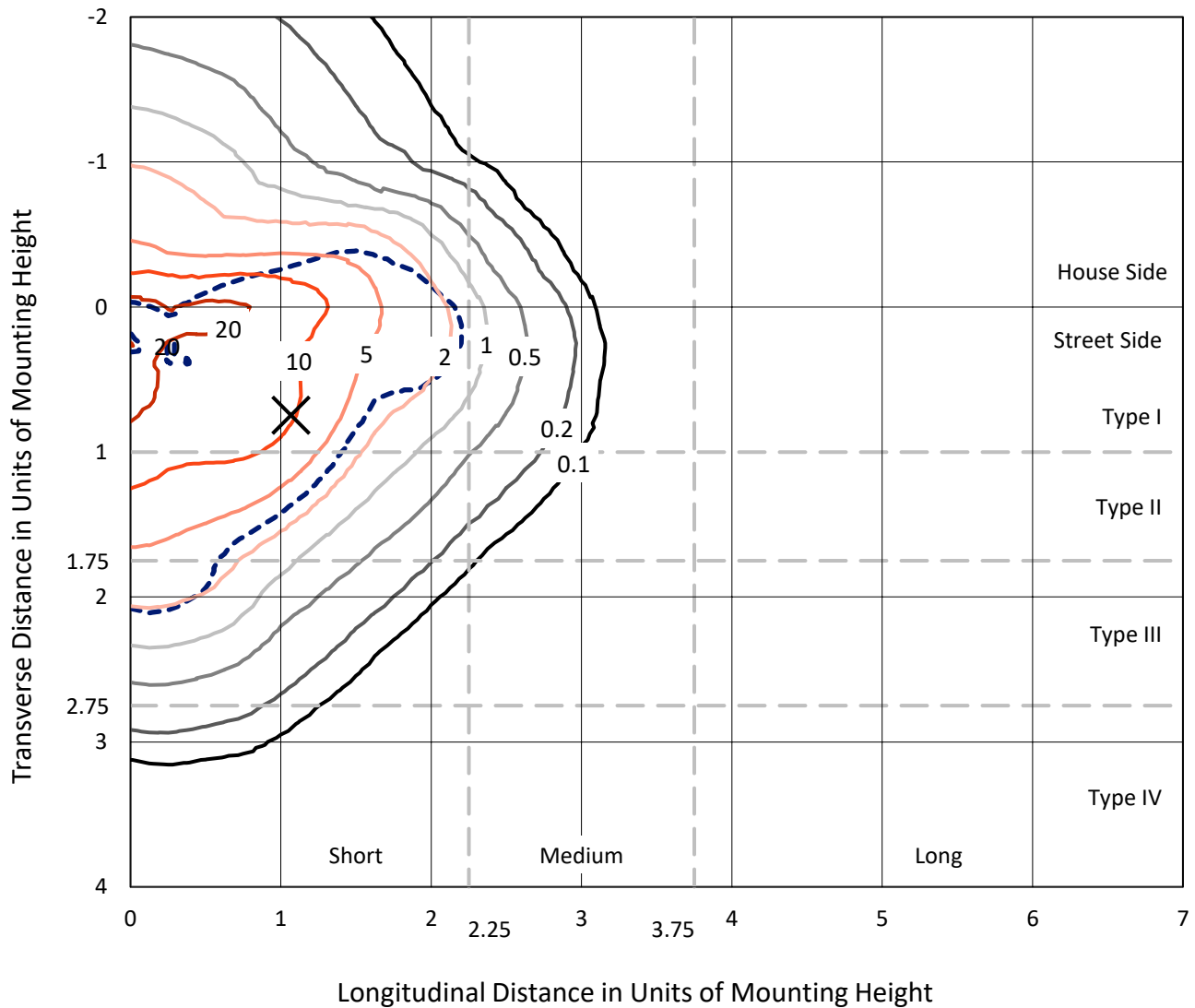


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

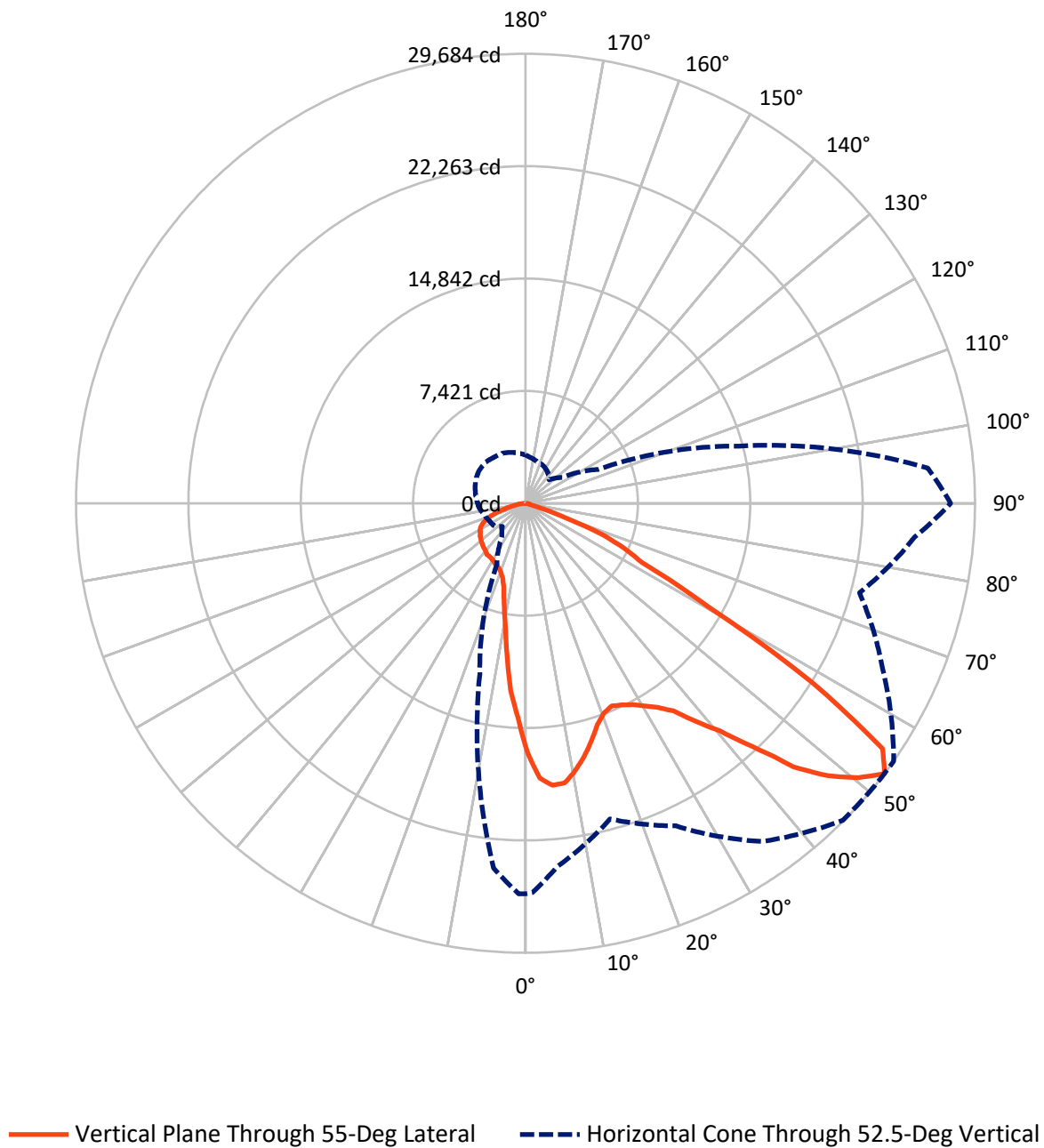


Based on 25 foot mounting height. Maximum calculated value = 28 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11277.6	0.0	11277.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	25691.5	0.0	25691.5
	% Fixture	69.5	0.0	69.5
Total	Lumens	36969.0	0.0	36969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.9	3.4
10°-20°	2716.5	7.3
20°-30°	4119.1	11.1
30°-40°	5951.4	16.1
40°-50°	7952.7	21.5
50°-60°	8877.0	24.0
60°-70°	4869.4	13.2
70°-80°	1052.8	2.8
80°-90°	170.3	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°	36969.0	100.0
0°-180°	36969.0	100.0

Coefficient of Utilization



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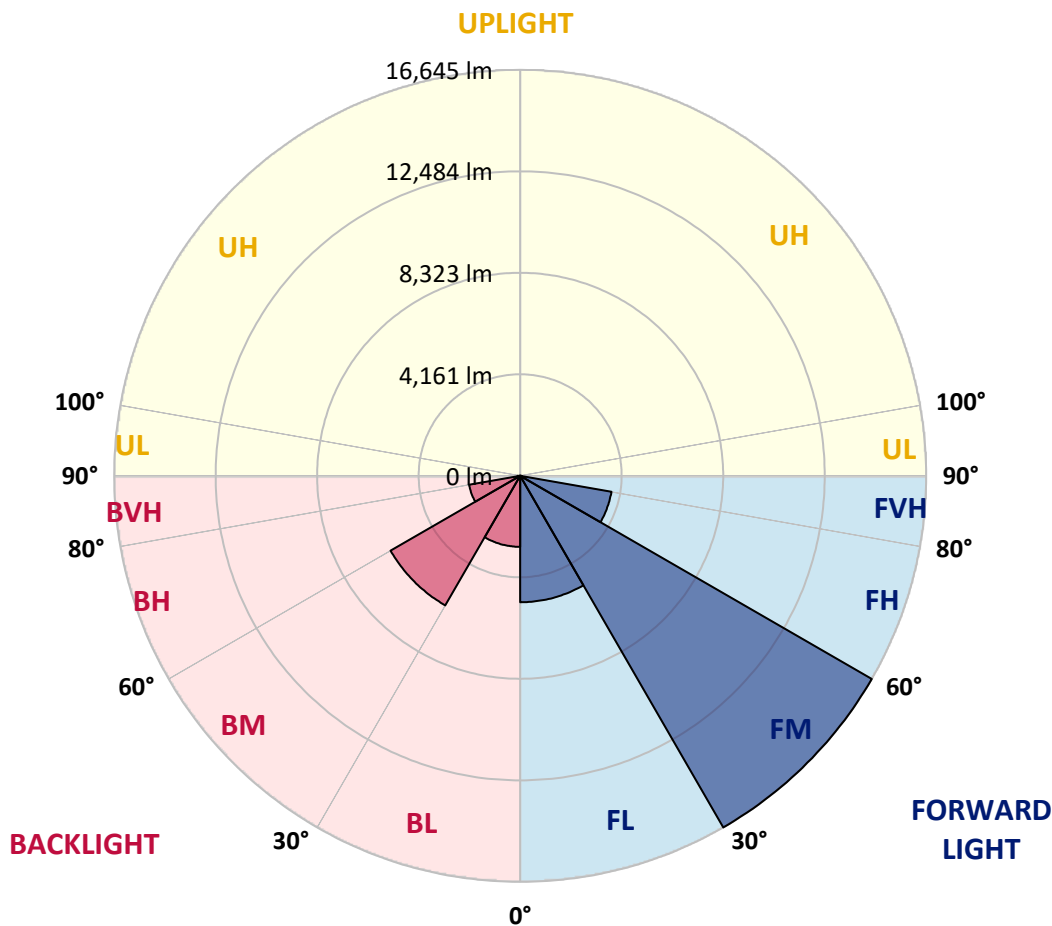
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5183.7	14.0			
FM	(30°-60°)	16645.2	45.0			
FH	(60°-80°)	3799.5	10.3			G2/5000
FVH	(80°-90°)	63.1	0.2			G1/100
BL	(0°-30°)	2911.7	7.9	B4/5000		
BM	(30°-60°)	6135.9	16.6	B4/8500		
BH	(60°-80°)	2122.7	5.7	B3/2500		G3/2500
BVH	(80°-90°)	107.3	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0
2.5°	17306.1	17209.0	17295.3	17705.6	17943.1	18105.0	18207.6	18191.4	17802.8	17424.9	17424.9
5°	16798.7	16674.6	16852.7	17781.2	18715.0	18796.0	18931.0	18709.6	18137.4	17446.5	16582.8
7.5°	15330.5	15422.2	15719.1	16939.1	18153.6	18763.6	18925.6	18644.9	17716.4	16426.3	15157.7
10°	14061.9	14277.8	14963.4	16280.5	17397.9	18191.4	18369.6	17975.5	17241.4	15659.7	14526.1
12.5°	13624.7	13489.7	14250.8	15568.0	16636.8	17063.2	17144.2	17171.2	16674.6	15271.1	13889.2
15°	13570.7	13657.1	14250.8	15249.5	15908.0	15929.6	16064.6	16275.1	16339.9	15535.6	14186.1
17.5°	14348.0	14245.4	14855.4	15648.9	15335.9	15022.8	15055.2	15357.4	15891.9	15762.3	15119.9
20°	15497.8	15729.9	16210.3	16129.4	15287.3	14493.8	14499.2	14785.3	15837.9	16701.6	16420.9
22.5°	17408.7	17635.4	17991.7	17014.6	15287.3	14337.2	14153.7	14542.3	16183.3	17819.0	17889.1
25°	19152.3	19567.9	19665.1	18515.3	16053.8	14483.0	14364.2	14747.5	16528.8	18909.4	19573.3
27.5°	20739.3	20890.4	21316.9	19481.6	16480.2	14580.1	14569.3	15060.6	16966.1	19454.6	21079.4
30°	21991.6	21975.4	22218.4	20091.5	17160.4	15125.3	14601.7	15530.2	17538.3	20356.0	22472.1
32.5°	22844.5	23028.1	23540.9	20939.0	17446.5	15643.5	15233.3	16080.8	18234.6	20782.5	23454.5
35°	24345.2	24663.7	24015.9	21408.7	18353.4	16156.4	15675.9	16831.1	18580.1	21246.7	24658.3
37.5°	25759.5	25516.6	24858.0	21662.4	18941.7	17106.4	16658.4	18283.2	19654.3	22256.1	25457.2
40°	26666.4	26661.0	25489.6	21867.5	19357.4	18558.5	18531.5	19756.9	20971.4	22893.1	26353.3
42.5°	27060.4	27438.3	25748.7	21845.9	20231.9	20318.2	20863.5	21959.3	21905.3	23022.7	26331.7
44°	27600.2	27826.9	26196.7	21894.5	20814.9	21505.8	22790.6	23486.9	22720.4	22952.5	26304.7
45°	27578.6	27594.8	25559.8	21959.3	21311.5	22499.1	23648.8	24825.6	23438.3	22801.4	26661.0
47.5°	26947.1	26763.5	25019.9	21478.8	22860.7	25122.5	26185.9	26898.5	24323.6	22477.5	26218.3
50°	25700.1	25489.6	23708.2	21273.7	23184.6	26752.7	28221.0	28480.1	25127.9	22159.0	25781.1
52.5°	25786.5	25727.1	24080.7	21581.4	23508.5	27265.5	29619.1	29683.9	26040.2	22828.3	25786.5
55°	27330.3	27125.2	25149.5	21964.7	23271.0	26666.4	28728.4	28615.0	25732.5	22423.5	26261.5
57.5°	25009.2	25144.1	23670.4	20447.8	20366.8	21678.6	22585.4	22304.7	21473.4	20237.3	24431.6
60°	20177.9	20561.2	20701.5	17101.0	15368.2	14693.5	14423.6	13927.0	14067.3	16626.0	21462.6
62.5°	17306.1	17284.5	18164.4	15503.2	10067.4	8658.5	8528.9	8642.3	10261.7	16366.9	21020.0
65°	13721.8	14088.9	14358.8	13138.8	7967.5	6429.1	6423.7	7141.6	8879.8	13678.7	16971.5
67.5°	8712.4	9192.9	9527.6	8404.8	5327.9	4577.5	4453.4	5317.1	6153.8	8971.6	10218.5
70°	4912.2	5138.9	5290.1	4847.4	3390.0	2375.1	2234.8	2439.9	3719.3	5808.3	6056.6
72.5°	1894.7	1997.3	2202.4	2218.6	1279.3	766.5	620.8	744.9	1565.4	2299.6	2191.6
75°	291.5	313.1	442.6	529.0	367.1	280.7	296.9	307.7	437.2	593.8	496.6
77.5°	140.3	140.3	135.0	156.5	183.5	199.7	215.9	237.5	259.1	286.1	275.3
80°	91.8	91.8	91.8	108.0	135.0	161.9	183.5	194.3	205.1	226.7	215.9
82.5°	59.4	59.4	59.4	81.0	108.0	135.0	145.7	172.7	194.3	226.7	210.5
85°	32.4	32.4	32.4	54.0	81.0	113.4	108.0	86.4	48.6	5.4	10.8
87.5°	10.8	10.8	10.8	10.8	0.0	0.0	0.0	0.0	0.0	0.0	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0
2.5°	16971.5	16723.1	16701.6	16194.1	15740.7	15519.4	15341.2	14844.6	14952.6	14666.5	14661.1
5°	16151.0	15643.5	14823.0	14148.3	13473.5	13338.6	12750.2	12237.4	12253.6	11886.5	11951.3
7.5°	14677.3	14326.4	13327.8	12269.8	11373.7	10736.7	10180.7	9846.0	9419.6	9273.8	9198.3
10°	13743.4	13311.6	12188.8	10860.9	9856.8	9516.8	8982.4	8685.5	8248.2	8032.3	7881.1
12.5°	13333.2	12701.6	11298.1	9948.6	9279.2	8928.4	8474.9	7935.1	7416.9	7217.2	6941.9
15°	13376.4	12620.6	11039.0	9581.5	8777.2	8097.1	7692.2	7093.0	6564.0	6213.2	6013.4
17.5°	14029.5	13111.9	11157.8	9300.8	8145.7	7292.8	6499.2	5851.5	5430.4	5165.9	5101.2
20°	15573.4	14326.4	11357.5	8847.4	7514.1	6450.7	5473.6	4798.9	4475.0	4469.6	4475.0
22.5°	16858.1	15621.9	11762.3	8577.5	6882.5	5371.1	4399.4	4183.5	4118.7	4253.7	4269.9
25°	18590.9	17079.4	12458.7	8437.1	6299.5	4577.5	3978.4	3897.4	3892.0	4064.7	4070.1
27.5°	20366.8	18353.4	12874.3	8026.9	5705.7	4167.3	3724.7	3708.5	3794.8	3978.4	3962.2
30°	21576.0	19422.2	13624.7	7535.7	5004.0	3805.6	3622.1	3643.7	3762.4	3902.8	3924.4
32.5°	22984.9	20474.8	13819.0	7265.8	4572.1	3503.3	3373.8	3422.4	3573.5	3794.8	3913.6
35°	24598.9	21219.7	14115.9	6898.7	4410.2	3271.2	3206.4	3260.4	3444.0	3589.7	3719.3
37.5°	25791.9	22536.8	14169.9	6612.6	4232.1	3141.7	3039.1	3217.2	3325.2	3530.3	3595.1
40°	26677.1	23492.3	14310.2	6434.5	4091.7	2974.3	2974.3	3093.1	3238.8	3427.8	3557.3
42.5°	27243.9	24188.6	14412.8	6272.5	3821.8	2925.7	2898.8	3017.5	3211.8	3395.4	3454.8
44°	27589.4	24485.5	14310.2	6121.4	3746.2	2866.4	2866.4	2968.9	3120.1	3336.0	3406.2
45°	27675.8	24858.0	14083.5	6116.0	3654.5	2796.2	2785.4	2979.7	3082.3	3346.8	3390.0
47.5°	28010.5	25316.8	14110.5	5943.2	3433.2	2628.8	2817.8	2904.1	2995.9	3228.0	3373.8
50°	27999.7	25602.9	14051.1	5689.5	3271.2	2439.9	2753.0	2850.2	2941.9	3179.4	3238.8
52.5°	28075.2	26671.8	14596.3	5284.7	2979.7	2197.0	2537.1	2753.0	2866.4	3066.1	3190.2
55°	28037.5	27281.7	15136.1	4982.4	2569.5	2051.3	2353.5	2607.3	2769.2	2979.7	3039.1
57.5°	25608.3	24113.1	14007.9	4415.6	2126.8	1878.5	2094.4	2456.1	2661.2	2877.2	2952.7
60°	20922.8	18585.5	11551.8	3249.6	1749.0	1727.4	1948.7	2407.5	2493.9	2682.8	2812.4
62.5°	19335.8	16302.1	9160.5	2483.1	1495.3	1581.6	1797.5	2175.4	2310.4	2542.5	2661.2
65°	15130.7	10828.5	5673.3	1678.8	1317.1	1419.7	1624.8	1905.5	2126.8	2342.8	2483.1
67.5°	8960.8	5916.3	2807.0	1176.8	1149.8	1257.7	1468.3	1678.8	1932.5	2170.0	2240.2
70°	4879.8	2909.5	1198.4	896.1	977.0	1074.2	1279.3	1425.1	1668.0	1851.5	1970.3
72.5°	1565.4	885.3	599.2	664.0	744.9	858.3	982.4	1160.6	1333.3	1441.3	1538.4
75°	377.9	372.5	426.4	464.2	539.8	626.2	728.7	820.5	955.5	1058.0	1144.4
77.5°	264.5	286.1	329.3	383.3	410.3	442.6	507.4	577.6	637.0	712.5	766.5
80°	205.1	221.3	253.7	280.7	307.7	334.7	367.1	394.1	431.8	480.4	507.4
82.5°	194.3	205.1	237.5	253.7	242.9	237.5	259.1	269.9	275.3	291.5	307.7
85°	16.2	0.0	10.8	37.8	91.8	135.0	145.7	145.7	140.3	151.1	151.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4	21.6	16.2
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°	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0
2.5°	14596.3	14412.8	14483.0	14569.3	14445.2	14159.1	14234.7	14202.3	14493.8	14472.2	14763.7
5°	12237.4	11951.3	11983.7	12404.7	12269.8	12415.5	12124.0	12086.2	12140.2	12167.2	12215.8
7.5°	9365.6	9327.8	9651.7	10008.0	10175.3	10002.6	9716.5	9651.7	9592.3	9473.6	9743.5
10°	7643.6	7654.4	7632.8	7902.7	8091.7	8053.9	7881.1	7859.6	7746.2	7703.0	7854.2
12.5°	6823.1	6677.4	6607.2	6520.8	6666.6	6763.8	6688.2	6634.2	6639.6	6693.6	6715.2
15°	6029.6	5937.9	5786.7	5689.5	5759.7	5711.1	5684.1	5792.1	5765.1	5754.3	5883.9
17.5°	5138.9	5214.5	5203.7	5095.8	5187.5	5149.7	5144.3	5068.8	4966.2	4890.6	4933.8
20°	4550.6	4690.9	4798.9	4804.3	4852.8	4847.4	4766.5	4534.4	4458.8	4442.6	4453.4
22.5°	4340.0	4415.6	4545.2	4728.7	4728.7	4642.3	4545.2	4275.3	4205.1	4129.5	4097.1
25°	4172.7	4318.4	4485.8	4507.4	4593.7	4512.8	4356.2	4221.3	4075.5	3973.0	3973.0
27.5°	4086.3	4248.3	4372.4	4410.2	4529.0	4464.2	4302.2	4129.5	3956.8	3951.4	3859.6
30°	4048.5	4199.7	4280.7	4372.4	4426.4	4323.8	4275.3	4091.7	3919.0	3875.8	3724.7
32.5°	3935.2	4151.1	4302.2	4280.7	4323.8	4280.7	4210.5	4059.3	3865.0	3767.8	3751.6
35°	3805.6	4021.5	4183.5	4296.8	4323.8	4232.1	4188.9	3983.8	3719.3	3670.7	3503.3
37.5°	3735.4	3865.0	4064.7	4248.3	4286.0	4237.5	4091.7	3881.2	3616.7	3562.7	3417.0
40°	3649.1	3816.4	3973.0	4124.1	4237.5	4118.7	3951.4	3746.2	3627.5	3465.5	3422.4
42.5°	3584.3	3773.2	3902.8	4070.1	4199.7	4043.1	3848.8	3708.5	3541.1	3433.2	3309.0
44°	3562.7	3735.4	3821.8	4026.9	4134.9	4016.1	3854.2	3708.5	3514.1	3417.0	3309.0
45°	3487.1	3724.7	3816.4	4000.0	4091.7	3994.6	3789.4	3643.7	3503.3	3384.6	3271.2
47.5°	3411.6	3573.5	3730.1	3875.8	3940.6	3908.2	3735.4	3557.3	3390.0	3319.8	3211.8
50°	3390.0	3551.9	3697.7	3832.6	3908.2	3843.4	3686.9	3514.1	3319.8	3206.4	3114.7
52.5°	3282.0	3481.7	3643.7	3686.9	3784.0	3746.2	3627.5	3438.6	3255.0	3157.9	3082.3
55°	3125.5	3336.0	3557.3	3611.3	3751.6	3692.3	3514.1	3336.0	3179.4	3033.7	2936.5
57.5°	3066.1	3271.2	3487.1	3557.3	3643.7	3546.5	3503.3	3314.4	3066.1	2990.5	2839.4
60°	2914.9	3174.1	3352.2	3514.1	3519.5	3492.5	3417.0	3201.0	2995.9	2855.6	2747.6
62.5°	2796.2	3039.1	3179.4	3330.6	3422.4	3346.8	3271.2	3071.5	2850.2	2693.6	2569.5
65°	2623.5	2844.8	2963.5	3055.3	3157.9	3147.1	3017.5	2871.8	2639.6	2515.5	2396.7
67.5°	2358.9	2553.3	2715.2	2801.6	2866.4	2850.2	2753.0	2650.4	2412.9	2288.8	2202.4
70°	2040.5	2240.2	2342.8	2391.3	2456.1	2488.5	2412.9	2364.3	2153.8	1991.9	1910.9
72.5°	1641.0	1770.6	1921.7	1964.9	1991.9	2013.5	2013.5	1970.3	1754.4	1689.6	1549.2
75°	1209.2	1311.7	1425.1	1425.1	1473.7	1479.1	1489.9	1462.9	1300.9	1214.6	1182.2
77.5°	820.5	896.1	987.8	1025.6	1058.0	1052.6	1047.2	971.6	885.3	847.5	815.1
80°	534.4	610.0	653.2	701.7	734.1	728.7	739.5	685.6	647.8	583.0	593.8
82.5°	318.5	377.9	421.0	480.4	480.4	496.6	496.6	480.4	442.6	410.3	410.3
85°	151.1	199.7	226.7	264.5	286.1	291.5	259.1	221.3	183.5	167.3	183.5
87.5°	27.0	37.8	54.0	48.6	59.4	54.0	54.0	54.0	54.0	43.2	48.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0	16491.0
2.5°	14655.7	14925.6	15114.5	15427.6	15967.4	16399.3	16841.9	17171.2	17209.0	17306.1
5°	12393.9	12539.7	13020.1	13646.3	14088.9	14817.6	15287.3	16140.2	16458.6	16798.7
7.5°	9678.7	9916.2	10558.6	10979.6	11951.3	12863.5	13808.2	14860.8	15281.9	15330.5
10°	8161.8	8507.3	8944.6	9619.3	10148.3	11163.2	12339.9	13511.3	13980.9	14061.9
12.5°	7168.6	7611.2	8194.2	8680.1	9187.5	10072.8	11200.9	12647.6	13257.6	13624.7
15°	6213.2	6672.0	7314.4	7989.1	8437.1	9495.2	10823.1	12453.3	13246.8	13570.7
17.5°	5230.7	5657.2	6186.2	6914.9	7816.4	9003.9	10763.7	13101.1	13970.1	14348.0
20°	4388.6	4626.1	5241.5	5991.8	7120.0	8501.9	10785.3	14056.5	15330.5	15497.8
22.5°	4059.3	4113.3	4356.2	5047.2	6283.3	7989.1	11168.6	15411.4	16858.1	17408.7
25°	3805.6	3794.8	3859.6	4323.8	5673.3	7789.4	11546.4	16658.4	18553.1	19152.3
27.5°	3665.3	3557.3	3562.7	4000.0	5241.5	7465.5	12032.2	18088.9	20474.8	20739.3
30°	3595.1	3573.5	3508.7	3686.9	4771.9	6979.7	12113.2	19497.7	21608.4	21991.6
32.5°	3551.9	3341.4	3260.4	3325.2	4329.2	6450.7	12415.5	20426.2	23011.9	22844.5
35°	3336.0	3147.1	3093.1	3157.9	4016.1	6153.8	12215.8	21235.9	24064.5	24345.2
37.5°	3255.0	3087.7	2979.7	2925.7	3724.7	5905.5	12113.2	22482.9	25084.7	25759.5
40°	3179.4	3001.3	2871.8	2817.8	3497.9	5576.2	12080.8	23443.7	26261.5	26666.4
42.5°	3093.1	2979.7	2834.0	2736.8	3222.6	5246.9	11708.4	23740.6	26623.2	27060.4
44°	3066.1	2893.4	2742.2	2709.8	3114.7	5079.6	11632.8	24010.5	26936.3	27600.2
45°	3039.1	2877.2	2704.4	2661.2	3076.9	4987.8	11530.2	24075.3	27454.5	27578.6
47.5°	2963.5	2861.0	2693.6	2574.9	2995.9	4788.1	11222.5	23708.2	26925.5	26947.1
50°	2904.1	2785.4	2612.7	2380.5	2888.0	4620.7	11362.9	23573.3	25651.5	25700.1
52.5°	2839.4	2661.2	2564.1	2164.6	2709.8	4480.4	11659.8	24183.3	25797.3	25786.5
55°	2763.8	2569.5	2332.0	1981.1	2412.9	4302.2	12377.7	25387.0	27146.8	27330.3
57.5°	2645.0	2477.7	2137.6	1819.1	2072.9	3962.2	12145.6	23082.0	24976.8	25009.2
60°	2488.5	2332.0	1937.9	1695.0	1700.4	3125.5	10860.9	17986.3	19708.3	20177.9
62.5°	2337.4	2251.0	1770.6	1516.9	1446.7	2488.5	9182.1	14947.2	16917.5	17306.1
65°	2159.2	1948.7	1624.8	1381.9	1241.6	1743.6	6504.6	11168.6	13198.2	13721.8
67.5°	1932.5	1705.8	1430.5	1214.6	1063.4	1166.0	3357.6	6348.1	8404.8	8712.4
70°	1689.6	1479.1	1203.8	1025.6	858.3	804.3	1479.1	3028.3	4593.7	4912.2
72.5°	1387.3	1193.0	960.9	809.7	642.4	556.0	496.6	809.7	1630.2	1894.7
75°	1004.0	869.1	723.3	577.6	453.4	356.3	291.5	242.9	269.9	291.5
77.5°	739.5	631.6	534.4	410.3	318.5	253.7	199.7	151.1	145.7	140.3
80°	577.6	512.8	426.4	329.3	248.3	188.9	140.3	102.6	91.8	91.8
82.5°	453.4	421.0	350.9	269.9	205.1	151.1	102.6	70.2	59.4	59.4
85°	172.7	172.7	253.7	221.3	156.5	108.0	70.2	37.8	32.4	32.4
87.5°	43.2	43.2	43.2	43.2	37.8	32.4	32.4	16.2	10.8	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)