

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: P457813

Luminaire Tested: **GALN-SA9A-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23723 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 274
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

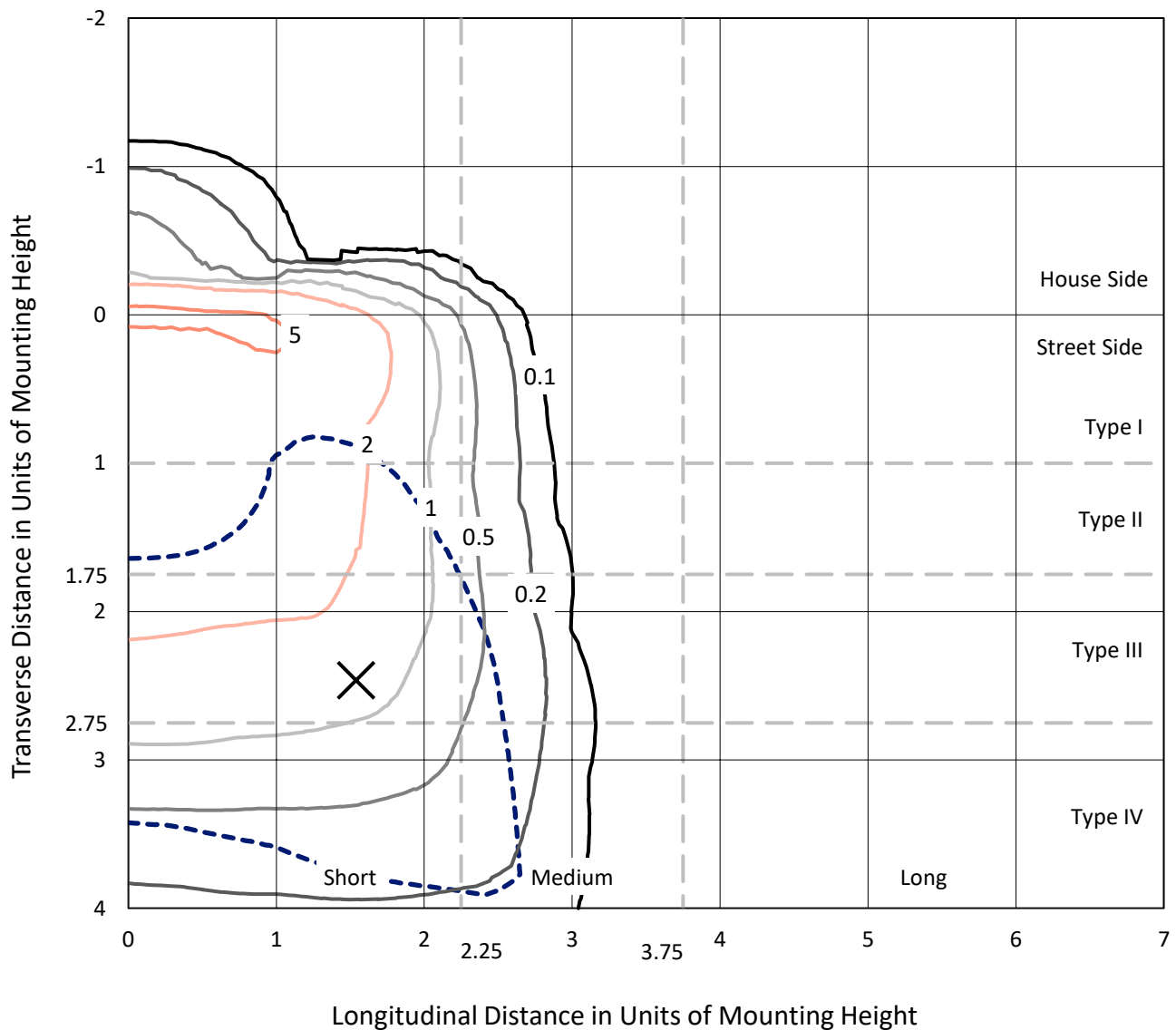


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Iso-Footcandle Lines of Horizontal Illumination

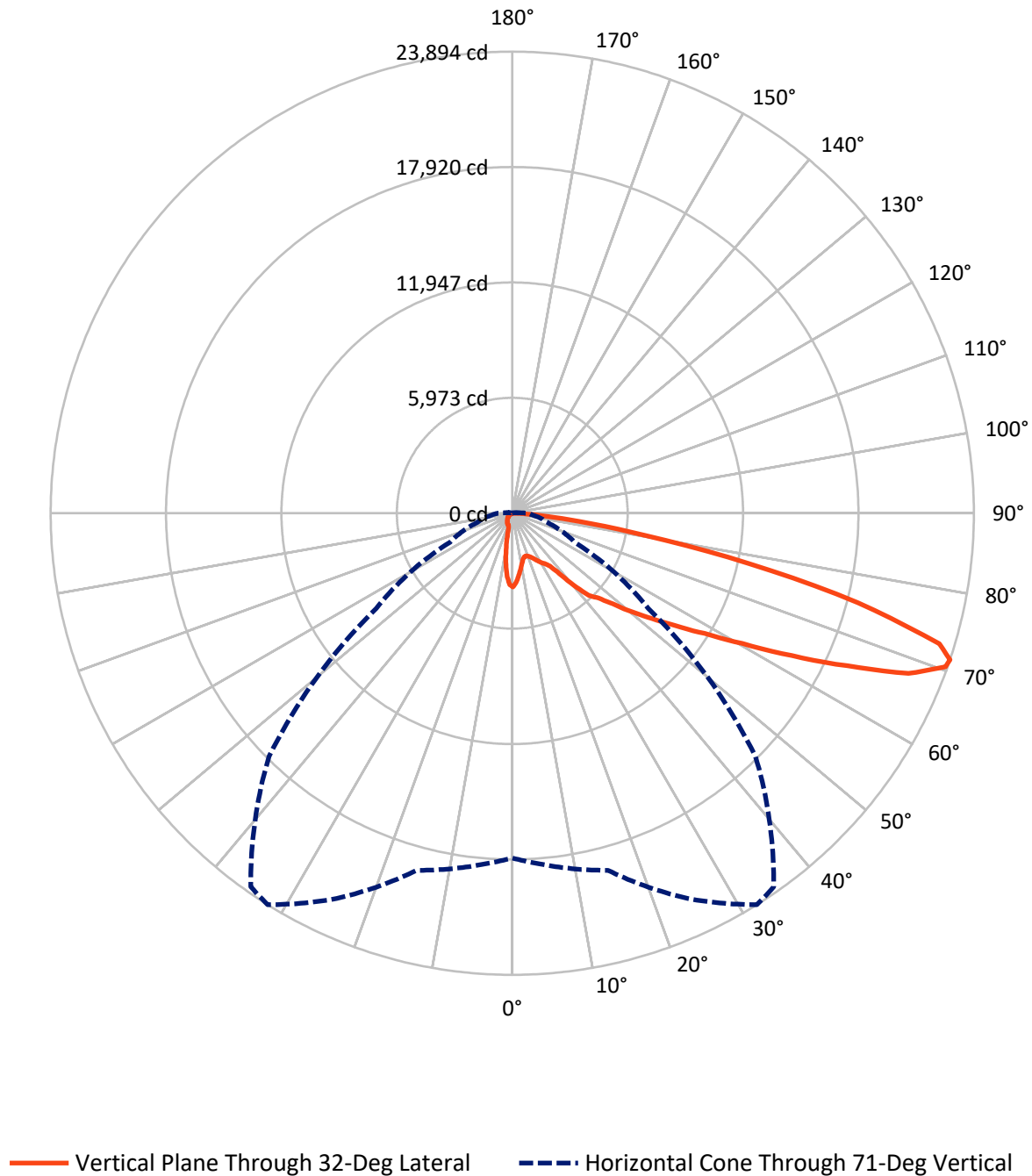
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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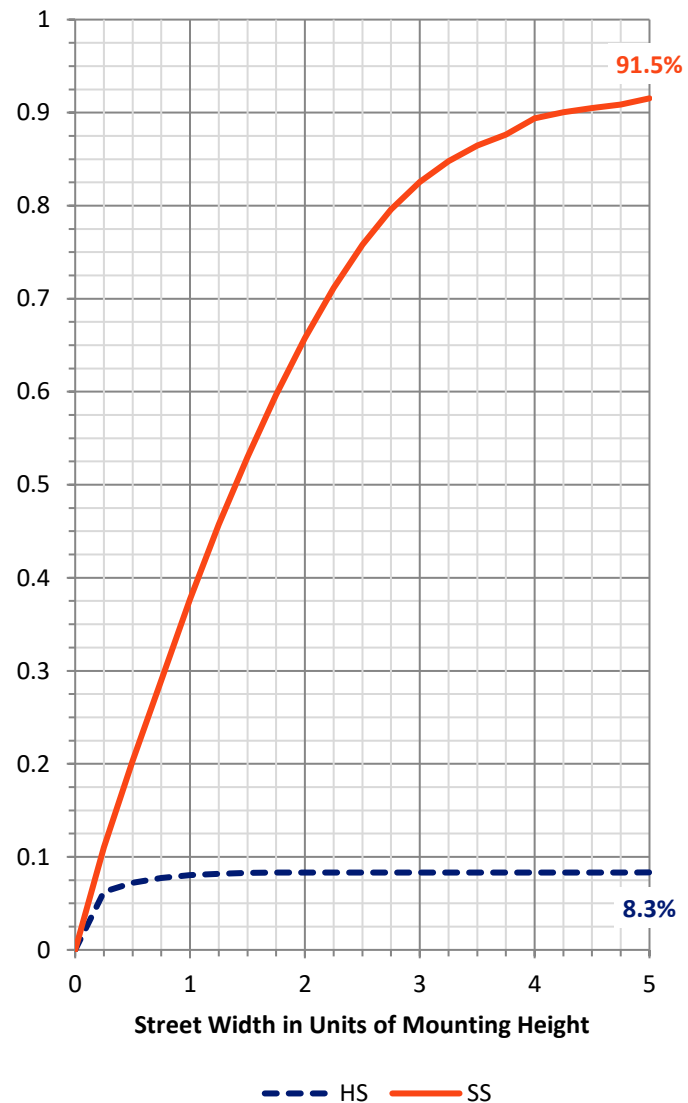
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1987.1	0.0	1987.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21735.9	0.0	21735.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	23723.0	0.0	23723.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.2	1.3
10°-20°	673.3	2.8
20°-30°	1047.4	4.4
30°-40°	1744.9	7.4
40°-50°	3245.9	13.7
50°-60°	5211.4	22.0
60°-70°	7009.6	29.5
70°-80°	4158.9	17.5
80°-90°	321.5	1.4
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°	23723.0	100.0
0°-180°	23723.0	100.0

Coefficient of Utilization



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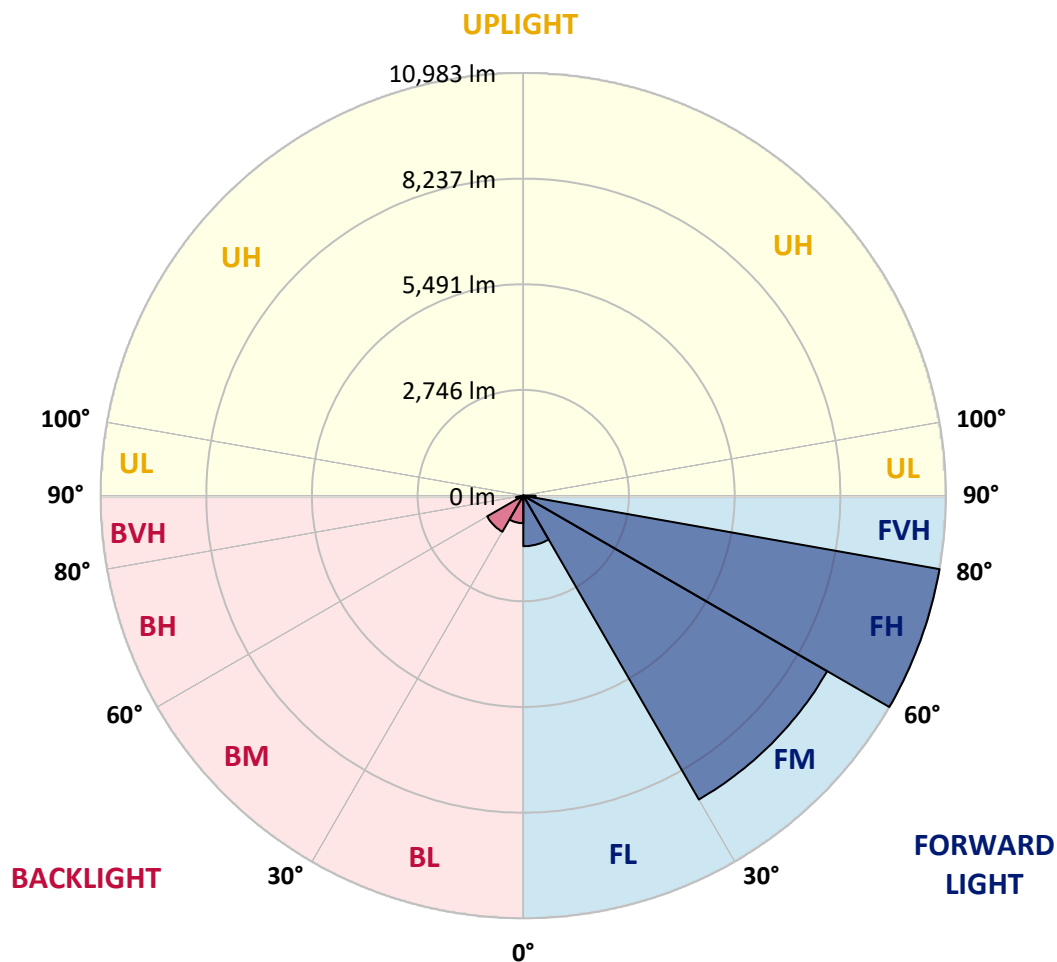
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1314.9	5.5			
FM	(30°-60°)	9118.2	38.4			
FH	(60°-80°)	10982.6	46.3			G4/12000
FVH	(80°-90°)	320.2	1.3			G3/500
BL	(0°-30°)	716.0	3.0	B2/1000		
BM	(30°-60°)	1084.0	4.6	B2/2500		
BH	(60°-80°)	185.8	0.8	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
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°	32°	35°	45°	55°	65°	75°	85°
0°	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0
2.5°	3538.2	3574.7	3569.2	3581.9	3612.9	3625.6	3660.2	3698.5	3751.3	3787.7	3811.4
5°	3168.6	3195.9	3199.5	3263.3	3294.2	3328.8	3430.8	3541.9	3665.7	3764.0	3829.6
7.5°	2773.4	2788.0	2817.1	2900.9	2979.2	3013.8	3168.6	3361.6	3556.4	3740.4	3858.7
10°	2447.4	2463.8	2516.6	2605.9	2678.7	2724.2	2939.1	3181.3	3454.5	3727.6	3900.6
12.5°	2261.7	2270.8	2290.8	2371.0	2463.8	2513.0	2744.3	3021.1	3372.5	3733.1	3971.6
15°	2249.0	2245.3	2221.6	2254.4	2338.2	2389.2	2615.0	2911.8	3299.7	3751.3	4055.4
17.5°	2316.3	2307.2	2250.8	2250.8	2320.0	2361.9	2560.3	2853.5	3263.3	3793.2	4173.8
20°	2420.1	2405.6	2312.7	2305.4	2372.8	2416.5	2593.1	2857.2	3270.5	3871.5	4332.2
22.5°	2551.2	2534.9	2394.6	2398.3	2471.1	2514.8	2687.8	2922.7	3316.1	3968.0	4501.6
25°	2722.4	2704.2	2538.5	2531.2	2607.7	2645.9	2828.0	3039.3	3379.8	4088.2	4723.7
27.5°	2950.0	2911.8	2713.3	2702.4	2784.3	2833.5	2997.4	3195.9	3492.7	4253.9	5022.4
30°	3137.6	3095.7	2906.3	2877.2	2964.6	3002.9	3172.2	3407.1	3714.9	4543.4	5435.7
32.5°	3383.4	3321.5	3099.4	3022.9	3115.8	3164.9	3425.3	3800.5	4044.5	4849.4	5927.4
35°	3937.0	3898.8	3627.5	3359.8	3354.3	3416.2	3798.6	4197.4	4383.2	5326.5	6597.5
37.5°	4729.2	4701.9	4414.1	4055.4	3951.6	3922.5	4252.1	4634.5	4924.0	5982.0	7376.9
40°	5648.8	5585.1	5321.0	5016.9	4882.1	4796.6	4787.5	5284.6	5630.6	6872.5	8189.1
42.5°	6308.0	6191.5	5871.0	5849.1	5820.0	5730.7	5472.2	6235.2	6542.9	7830.4	9057.7
45°	7000.0	6823.3	6346.2	6264.3	6253.4	6247.9	6506.5	7360.5	7537.2	8868.3	9950.0
47.5°	7537.2	7397.0	7005.4	6969.0	7014.6	7138.4	7874.1	8555.1	8518.7	9793.4	10698.5
50°	8252.8	8147.2	7712.0	7781.2	8016.1	8218.2	9416.5	9857.2	9325.4	10521.8	11243.0
52.5°	9097.8	8902.9	8498.7	8686.2	9046.8	9383.7	11053.6	10997.1	9891.8	11070.0	11649.0
55°	9829.8	9691.4	9553.1	9747.9	10286.9	10707.6	12532.2	11851.2	10303.3	11510.6	11827.5
57.5°	11068.1	11035.4	10893.3	11091.8	11745.6	12182.6	13856.1	12514.0	10567.4	11740.1	11618.1
60°	12900.1	12847.3	12583.2	12836.3	13688.6	14375.1	15076.2	13109.5	10627.5	11650.9	11015.3
62.5°	15103.5	14923.2	14697.4	15070.7	16239.8	16542.1	16225.3	13462.8	10403.5	10940.7	9562.2
65°	17161.3	16975.5	16981.0	17767.7	19040.5	19246.3	17565.5	13410.0	9747.9	9161.5	7052.8
67.5°	18736.4	18705.5	18927.6	20462.8	22127.2	21985.1	18763.8	12619.6	7804.9	5938.3	3747.7
70°	18816.6	18876.7	19514.0	22105.3	23795.2	23569.4	18661.8	10257.8	4865.8	2731.5	1476.8
71°	17847.8	18252.0	19133.4	22054.3	23893.6	23600.4	17802.3	8591.6	3569.2	1904.8	1065.3
72.5°	15209.1	15422.2	17327.0	20755.9	23116.0	22489.6	15622.5	6022.1	2285.4	1165.5	611.9
75°	8376.7	8901.1	11603.5	16283.5	18488.8	17938.8	10181.3	2860.8	1140.0	637.4	253.1
77.5°	3988.0	3886.0	5661.5	9684.2	12535.9	12506.7	5129.8	1271.1	664.7	431.6	127.5
80°	1140.0	1282.0	2167.0	4603.5	6959.9	7036.4	1970.3	613.7	460.7	336.9	65.6
82.5°	344.2	351.5	795.8	2035.9	3461.8	3263.3	739.3	313.2	331.4	267.7	38.2
85°	60.1	74.7	234.9	717.5	1320.2	1001.6	185.7	149.3	218.5	176.6	21.9
87.5°	3.6	5.5	78.3	81.9	116.5	67.4	32.8	21.9	47.3	47.3	12.7
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°	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0	3815.0
2.5°	3827.8	3838.7	3831.4	3815.0	3787.7	3754.9	3711.2	3674.8	3643.9	3627.5	3647.5
5°	3851.4	3866.0	3829.6	3747.7	3623.8	3489.1	3336.1	3217.7	3124.9	3095.7	3084.8
7.5°	3887.9	3897.0	3798.6	3616.5	3354.3	3035.6	2757.0	2522.1	2340.0	2285.4	2205.3
10°	3935.2	3929.8	3744.0	3405.3	2944.6	2465.7	2034.1	1713.6	1471.4	1384.0	1376.7
12.5°	4008.1	3978.9	3674.8	3117.6	2456.6	1830.1	1296.6	1014.3	861.3	810.4	799.4
15°	4099.1	4029.9	3565.5	2780.7	1881.1	1181.8	799.4	713.8	693.8	690.2	686.5
17.5°	4206.5	4097.3	3421.7	2367.3	1322.1	766.6	668.3	666.5	668.3	664.7	662.8
20°	4352.2	4168.3	3250.5	1877.5	874.1	646.5	637.4	637.4	639.2	637.4	637.4
22.5°	4507.0	4252.1	3039.3	1433.1	659.2	613.7	611.9	615.5	619.1	617.3	617.3
25°	4698.2	4361.3	2760.7	981.5	590.0	586.4	588.2	595.5	602.8	604.6	602.8
27.5°	4975.0	4496.1	2462.0	675.6	540.8	544.5	562.7	580.9	591.8	593.7	593.7
30°	5286.4	4645.4	2072.3	548.1	500.8	500.8	522.6	557.2	580.9	584.5	586.4
32.5°	5687.0	4818.4	1640.7	493.5	462.5	458.9	478.9	520.8	564.5	577.3	577.3
35°	6182.4	5022.4	1220.1	458.9	435.2	426.1	437.0	471.6	528.1	564.5	568.2
37.5°	6763.3	5215.4	892.3	427.9	409.7	397.0	404.3	431.6	477.1	531.7	546.3
40°	7300.5	5386.6	666.5	402.4	384.2	375.1	380.6	393.3	431.6	482.6	491.7
42.5°	7886.8	5519.5	529.9	375.1	358.7	355.1	355.1	360.6	386.1	415.2	417.0
45°	8471.4	5566.8	444.3	342.4	331.4	335.1	333.2	329.6	340.5	336.9	336.9
47.5°	8888.4	5510.4	367.8	311.4	311.4	316.9	307.8	295.0	289.5	267.7	269.5
50°	9174.3	5304.6	302.3	275.0	289.5	296.8	278.6	258.6	238.6	214.9	209.4
52.5°	9292.6	4938.6	247.7	227.6	256.8	265.9	244.0	220.3	189.4	169.4	163.9
55°	9216.2	4487.0	205.8	185.7	216.7	227.6	205.8	178.5	143.9	122.0	118.4
57.5°	8879.3	3948.0	174.8	147.5	173.0	180.3	165.7	136.6	102.0	80.1	80.1
60°	8296.5	3390.7	142.0	116.5	129.3	140.2	125.7	98.3	69.2	49.2	45.5
62.5°	7114.7	2753.4	114.7	91.1	91.1	100.2	87.4	71.0	43.7	25.5	23.7
65°	5137.1	1888.4	91.1	67.4	65.6	65.6	54.6	47.3	25.5	10.9	7.3
67.5°	2791.6	1065.3	72.8	51.0	45.5	43.7	34.6	27.3	10.9	1.8	0.0
70°	1098.1	409.7	56.5	34.6	29.1	27.3	18.2	12.7	7.3	0.0	0.0
71°	744.8	282.3	49.2	29.1	23.7	20.0	14.6	10.9	5.5	0.0	0.0
72.5°	426.1	174.8	38.2	21.9	18.2	14.6	10.9	7.3	5.5	0.0	0.0
75°	185.7	89.2	23.7	16.4	12.7	9.1	7.3	5.5	1.8	0.0	0.0
77.5°	94.7	49.2	16.4	12.7	7.3	5.5	3.6	1.8	0.0	0.0	0.0
80°	52.8	25.5	10.9	7.3	5.5	3.6	1.8	1.8	0.0	0.0	0.0
82.5°	29.1	14.6	5.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.2	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	3.6	0.0	0.0	0.0	0.0	1.8	1.8	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

(END OF REPORT)