

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: P456885

Luminaire Tested: **GALN-SA8A-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456885
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-SA8A-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 21131 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): 244
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

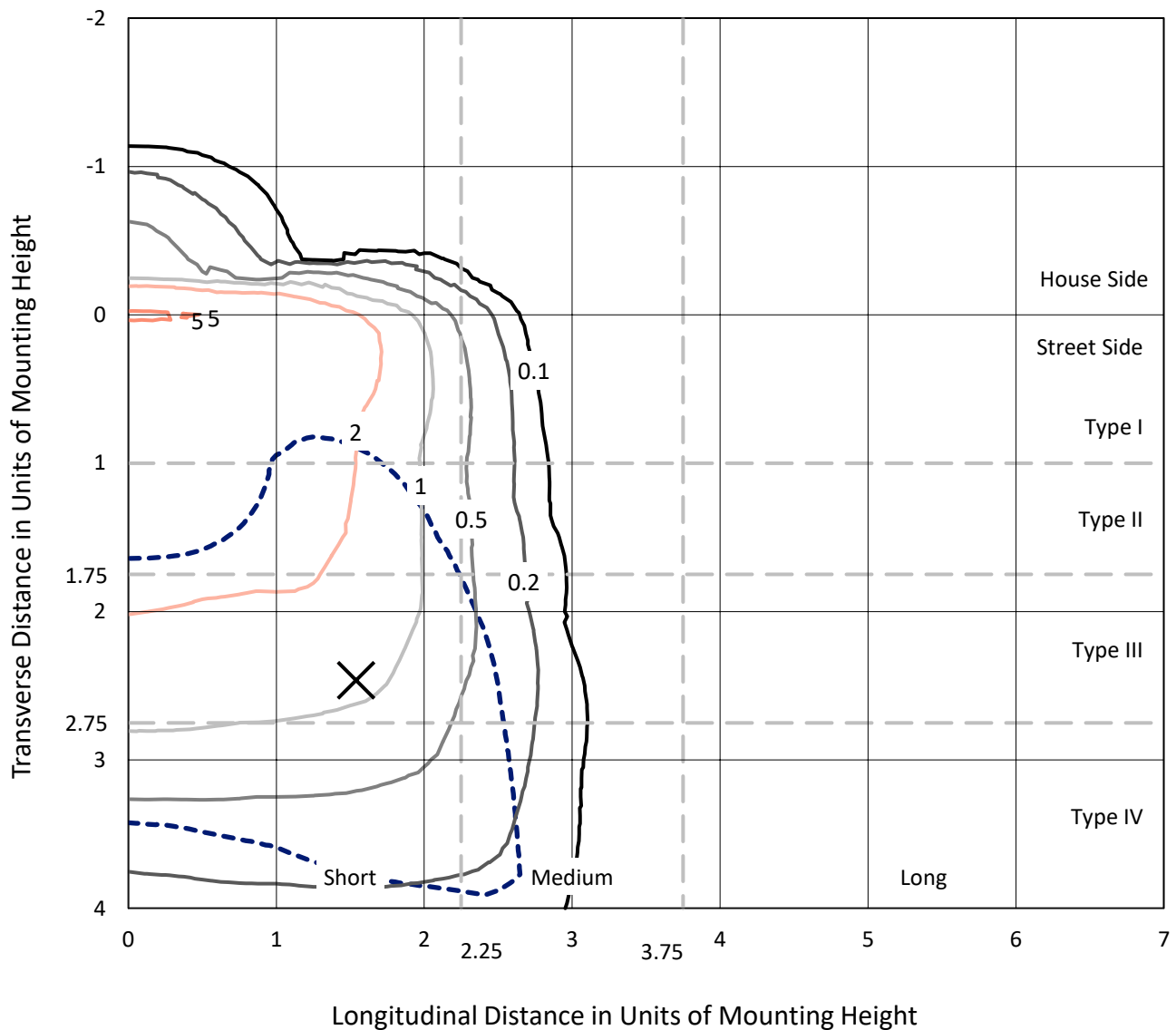


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Iso-Footcandle Lines of Horizontal Illumination

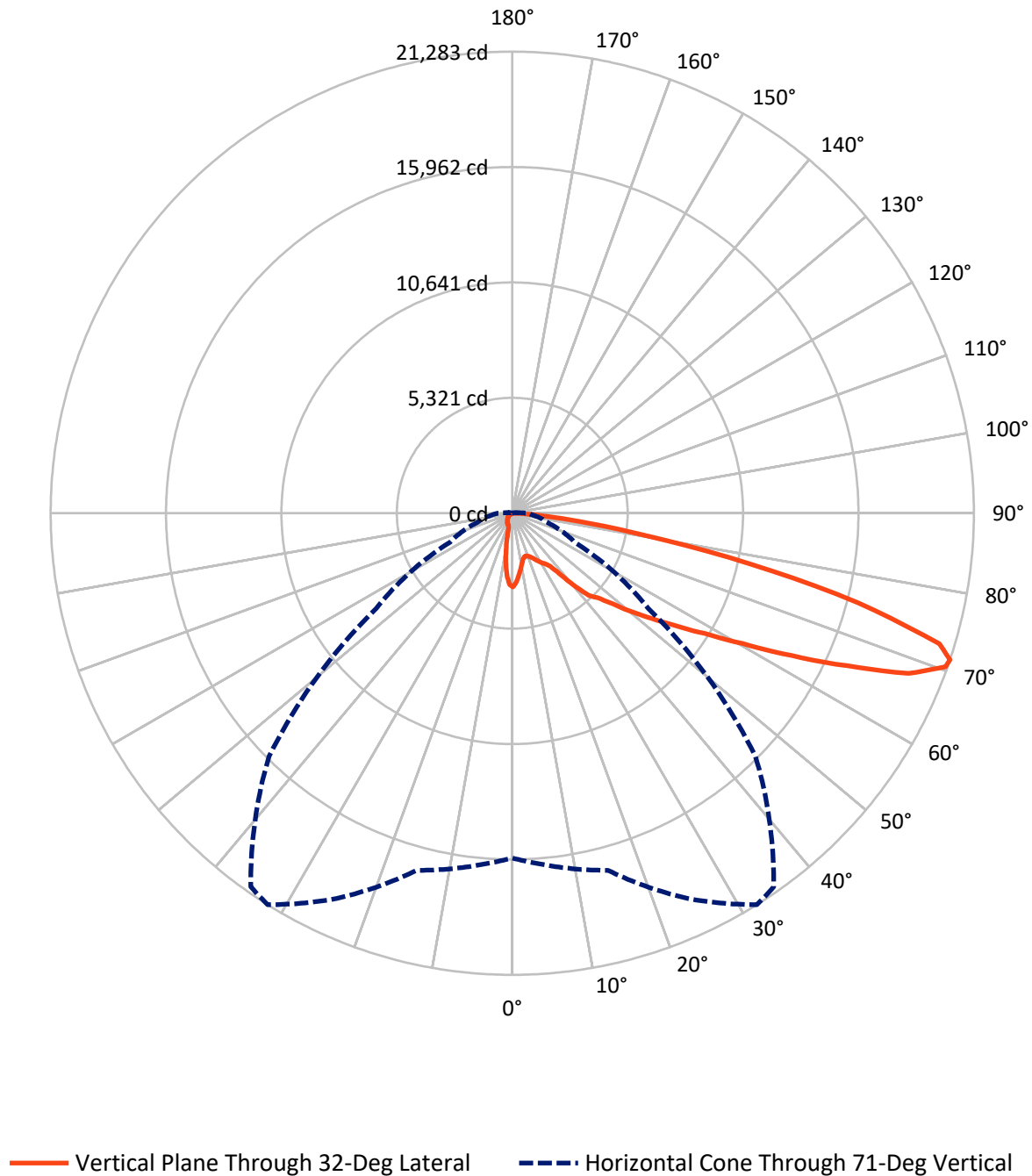
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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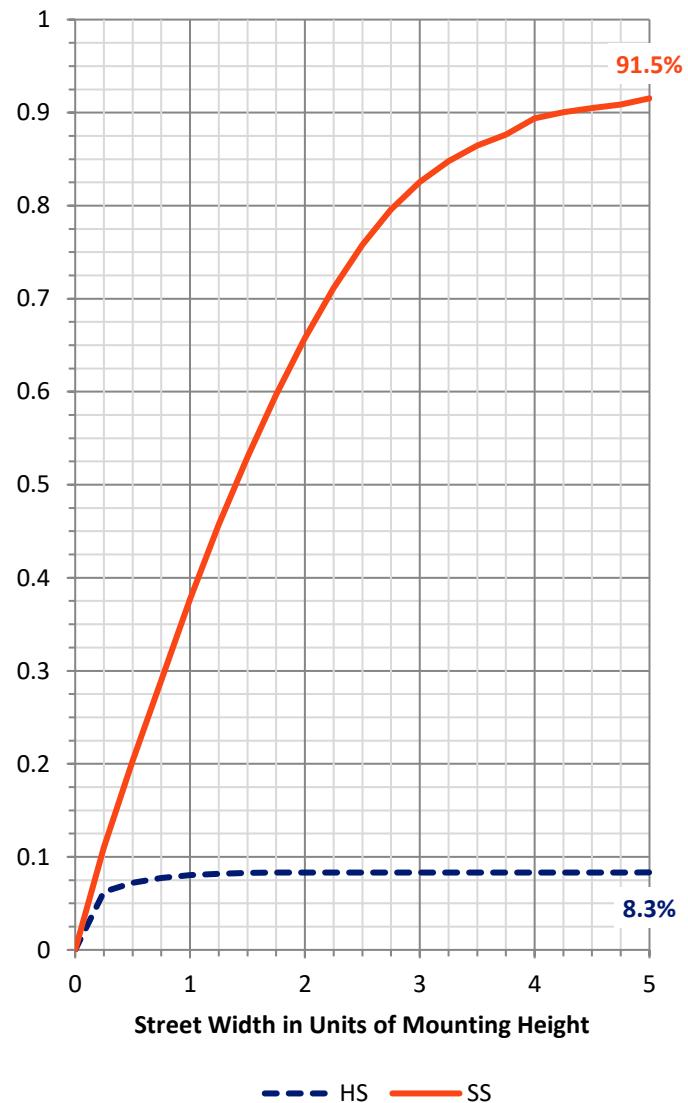
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1769.9	0.0	1769.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	19361.1	0.0	19361.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	21131.0	0.0	21131.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	1.3
10°-20°	599.7	2.8
20°-30°	932.9	4.4
30°-40°	1554.3	7.4
40°-50°	2891.2	13.7
50°-60°	4642.0	22.0
60°-70°	6243.7	29.5
70°-80°	3704.5	17.5
80°-90°	286.3	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°	21131.0	100.0
0°-180°	21131.0	100.0

Coefficient of Utilization



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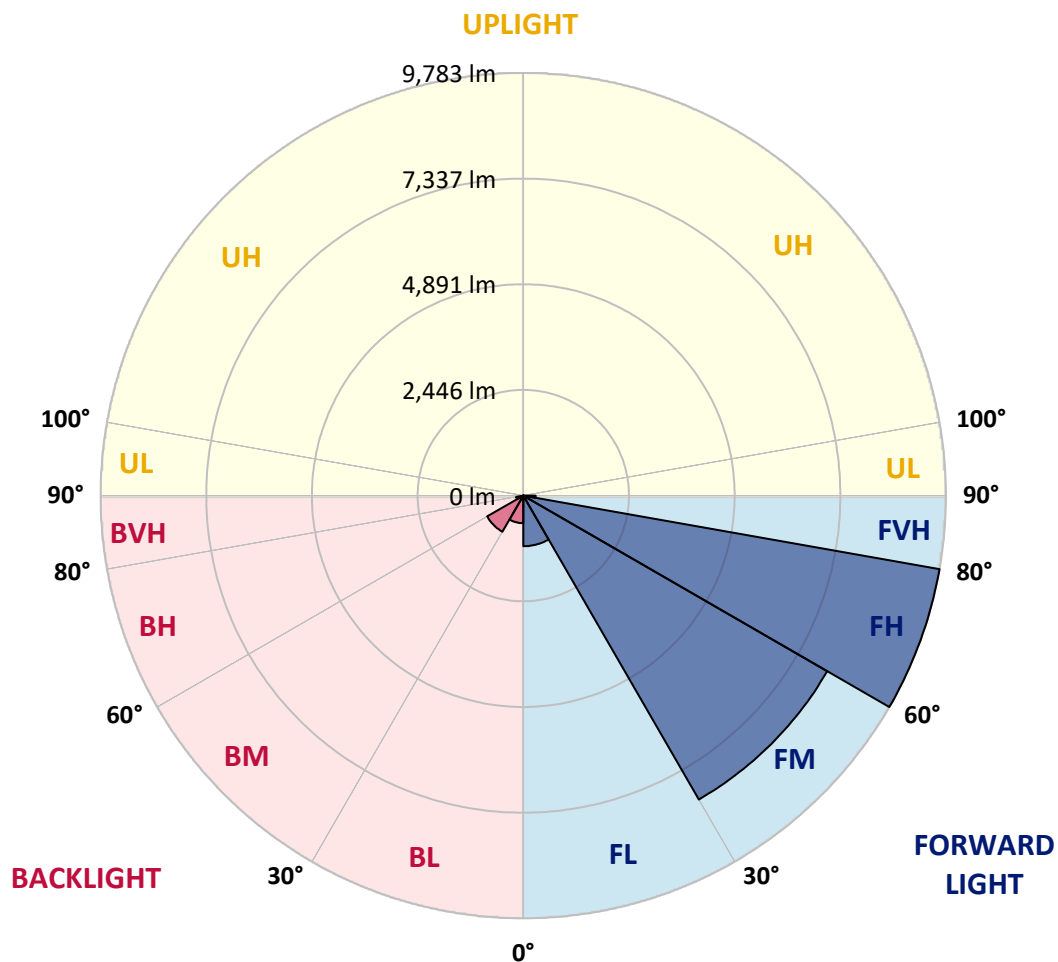
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1171.2	5.5			
FM	(30°-60°)	8122.0	38.4			
FH	(60°-80°)	9782.6	46.3			G4/12000
FVH	(80°-90°)	285.2	1.3			G3/500
BL	(0°-30°)	637.7	3.0	B2/1000		
BM	(30°-60°)	965.5	4.6	B1/1000		
BH	(60°-80°)	165.5	0.8	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2
2.5°	3151.6	3184.1	3179.2	3190.6	3218.1	3229.5	3260.3	3294.4	3341.4	3373.9	3395.0
5°	2822.4	2846.7	2849.9	2906.7	2934.3	2965.1	3055.9	3154.9	3265.2	3352.8	3411.2
7.5°	2470.4	2483.4	2509.3	2583.9	2653.7	2684.5	2822.4	2994.3	3167.9	3331.7	3437.1
10°	2180.0	2194.6	2241.7	2321.2	2386.0	2426.6	2618.0	2833.7	3077.0	3320.3	3474.4
12.5°	2014.6	2022.7	2040.5	2111.9	2194.6	2238.4	2444.4	2691.0	3004.0	3325.2	3537.7
15°	2003.2	2000.0	1978.9	2008.1	2082.7	2128.1	2329.3	2593.7	2939.2	3341.4	3612.3
17.5°	2063.2	2055.1	2004.9	2004.9	2066.5	2103.8	2280.6	2541.8	2906.7	3378.7	3717.7
20°	2155.7	2142.7	2060.0	2053.5	2113.5	2152.5	2309.8	2545.0	2913.2	3448.5	3858.9
22.5°	2272.5	2257.9	2133.0	2136.2	2201.1	2240.1	2394.1	2603.4	2953.8	3534.4	4009.7
25°	2425.0	2408.7	2261.1	2254.6	2322.8	2356.8	2519.0	2707.2	3010.5	3641.5	4207.6
27.5°	2627.7	2593.7	2416.9	2407.1	2480.1	2523.9	2669.9	2846.7	3111.1	3789.1	4473.6
30°	2794.8	2757.5	2588.8	2562.8	2640.7	2674.8	2825.6	3034.9	3309.0	4047.0	4841.8
32.5°	3013.8	2958.6	2760.7	2692.6	2775.3	2819.1	3051.1	3385.2	3602.6	4319.5	5279.8
35°	3506.9	3472.8	3231.1	2992.7	2987.8	3043.0	3383.6	3738.8	3904.3	4744.5	5876.7
37.5°	4212.5	4188.1	3931.8	3612.3	3519.8	3493.9	3787.5	4128.1	4386.0	5328.4	6570.9
40°	5031.6	4974.8	4739.6	4468.7	4348.7	4272.5	4264.4	4707.2	5015.4	6121.6	7294.4
42.5°	5618.8	5515.0	5229.5	5210.0	5184.1	5104.6	4874.3	5553.9	5828.0	6974.8	8068.1
45°	6235.2	6077.8	5652.8	5579.9	5570.1	5565.3	5795.6	6556.3	6713.7	7899.4	8862.9
47.5°	6713.7	6588.8	6240.0	6207.6	6248.1	6358.4	7013.7	7620.4	7588.0	8723.4	9529.5
50°	7351.1	7257.1	6869.4	6931.0	7140.3	7320.3	8387.6	8780.2	8306.5	9372.2	10014.5
52.5°	8103.8	7930.2	7570.1	7737.2	8058.3	8358.4	9845.8	9795.6	8811.0	9860.4	10376.3
55°	8755.8	8632.6	8509.3	8682.8	9163.0	9537.7	11162.9	10556.3	9177.6	10253.0	10535.2
57.5°	9858.8	9829.6	9703.1	9879.9	10462.2	10851.5	12342.2	11146.7	9412.8	10457.4	10348.7
60°	11490.6	11443.6	11208.4	11433.8	12193.0	12804.5	13429.0	11677.1	9466.3	10377.9	9811.8
62.5°	13453.3	13292.7	13091.6	13424.1	14465.4	14734.7	14452.5	11991.8	9266.8	9745.3	8517.4
65°	15286.2	15120.8	15125.6	15826.3	16960.2	17143.4	15646.3	11944.8	8682.8	8160.5	6282.2
67.5°	16689.3	16661.7	16859.6	18227.0	19709.5	19583.0	16713.6	11240.8	6952.1	5289.5	3338.2
70°	16760.6	16814.2	17381.9	19690.1	21195.3	20994.2	16622.8	9137.0	4334.1	2433.1	1315.5
71°	15897.7	16257.8	17042.9	19644.6	21282.9	21021.8	15857.2	7652.8	3179.2	1696.7	948.9
72.5°	13547.4	13737.1	15433.8	18488.1	20590.3	20032.3	13915.6	5364.1	2035.7	1038.1	545.0
75°	7461.4	7928.6	10335.7	14504.4	16468.7	15978.8	9068.9	2548.2	1015.4	567.7	225.5
77.5°	3552.3	3461.5	5043.0	8626.1	11166.2	11140.2	4569.3	1132.2	592.0	384.4	113.5
80°	1015.4	1141.9	1930.2	4100.5	6199.5	6267.6	1755.1	546.6	410.4	300.1	58.4
82.5°	306.6	313.1	708.8	1813.5	3083.5	2906.7	658.6	279.0	295.2	238.4	34.1
85°	53.5	66.5	209.2	639.1	1176.0	892.1	165.4	133.0	194.6	157.3	19.5
87.5°	3.2	4.9	69.7	73.0	103.8	60.0	29.2	19.5	42.2	42.2	11.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2	3398.2
2.5°	3409.5	3419.3	3412.8	3398.2	3373.9	3344.7	3305.7	3273.3	3245.7	3231.1	3249.0
5°	3430.6	3443.6	3411.2	3338.2	3227.9	3107.8	2971.6	2866.2	2783.4	2757.5	2747.8
7.5°	3463.1	3471.2	3383.6	3221.4	2987.8	2704.0	2455.8	2246.5	2084.3	2035.7	1964.3
10°	3505.3	3500.4	3334.9	3033.2	2622.9	2196.3	1811.8	1526.3	1310.6	1232.8	1226.3
12.5°	3570.1	3544.2	3273.3	2776.9	2188.1	1630.2	1154.9	903.5	767.2	721.8	712.1
15°	3651.2	3589.6	3176.0	2476.9	1675.6	1052.7	712.1	635.8	618.0	614.8	611.5
17.5°	3746.9	3649.6	3047.8	2108.7	1177.6	682.9	595.3	593.7	595.3	592.0	590.4
20°	3876.7	3712.9	2895.4	1672.3	778.6	575.8	567.7	567.7	569.3	567.7	567.7
22.5°	4014.6	3787.5	2707.2	1276.6	587.2	546.6	545.0	548.3	551.5	549.9	549.9
25°	4184.9	3884.8	2459.0	874.3	525.5	522.3	523.9	530.4	536.9	538.5	536.9
27.5°	4431.4	4004.8	2193.0	601.8	481.7	485.0	501.2	517.4	527.2	528.8	528.8
30°	4708.8	4137.8	1845.9	488.2	446.1	446.1	465.5	496.3	517.4	520.7	522.3
32.5°	5065.7	4291.9	1461.5	439.6	412.0	408.8	426.6	463.9	502.8	514.2	514.2
35°	5506.9	4473.6	1086.8	408.8	387.7	379.6	389.3	420.1	470.4	502.8	506.1
37.5°	6024.3	4645.6	794.8	381.2	365.0	353.6	360.1	384.4	425.0	473.6	486.6
40°	6502.8	4798.0	593.7	358.5	342.3	334.1	339.0	350.4	384.4	429.8	438.0
42.5°	7025.1	4916.4	472.0	334.1	319.5	316.3	316.3	321.2	343.9	369.8	371.4
45°	7545.8	4958.6	395.8	304.9	295.2	298.5	296.8	293.6	303.3	300.1	300.1
47.5°	7917.2	4908.3	327.7	277.4	277.4	282.2	274.1	262.8	257.9	238.4	240.1
50°	8171.9	4725.0	269.3	244.9	257.9	264.4	248.2	230.3	212.5	191.4	186.5
52.5°	8277.3	4399.0	220.6	202.8	228.7	236.8	217.4	196.3	168.7	150.9	146.0
55°	8209.2	3996.7	183.3	165.4	193.0	202.8	183.3	159.0	128.1	108.7	105.4
57.5°	7909.1	3516.6	155.7	131.4	154.1	160.6	147.6	121.7	90.8	71.4	71.4
60°	7390.1	3020.3	126.5	103.8	115.2	124.9	111.9	87.6	61.6	43.8	40.6
62.5°	6337.3	2452.5	102.2	81.1	81.1	89.2	77.9	63.3	38.9	22.7	21.1
65°	4575.8	1682.1	81.1	60.0	58.4	58.4	48.7	42.2	22.7	9.7	6.5
67.5°	2486.6	948.9	64.9	45.4	40.6	38.9	30.8	24.3	9.7	1.6	0.0
70°	978.1	365.0	50.3	30.8	26.0	24.3	16.2	11.4	6.5	0.0	0.0
71°	663.4	251.4	43.8	26.0	21.1	17.8	13.0	9.7	4.9	0.0	0.0
72.5°	379.6	155.7	34.1	19.5	16.2	13.0	9.7	6.5	4.9	0.0	0.0
75°	165.4	79.5	21.1	14.6	11.4	8.1	6.5	4.9	1.6	0.0	0.0
77.5°	84.3	43.8	14.6	11.4	6.5	4.9	3.2	1.6	0.0	0.0	0.0
80°	47.0	22.7	9.7	6.5	4.9	3.2	1.6	1.6	0.0	0.0	0.0
82.5°	26.0	13.0	4.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.2	8.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	3.2	0.0	0.0	0.0	0.0	1.6	1.6	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)