

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: STREETWORKS

Report Number: P192700

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-AFL-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9763.4 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 85
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: 28.75 FT



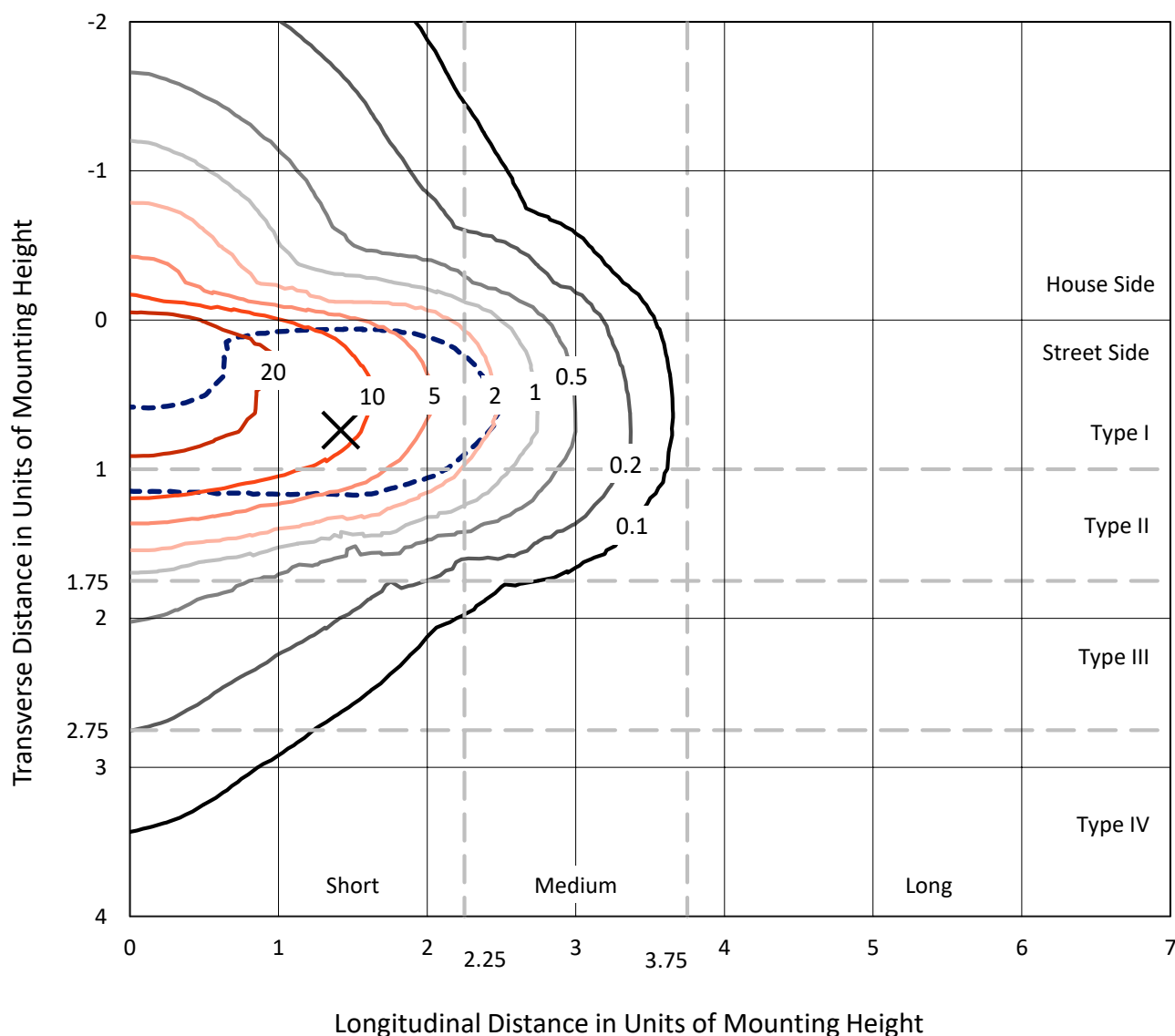
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

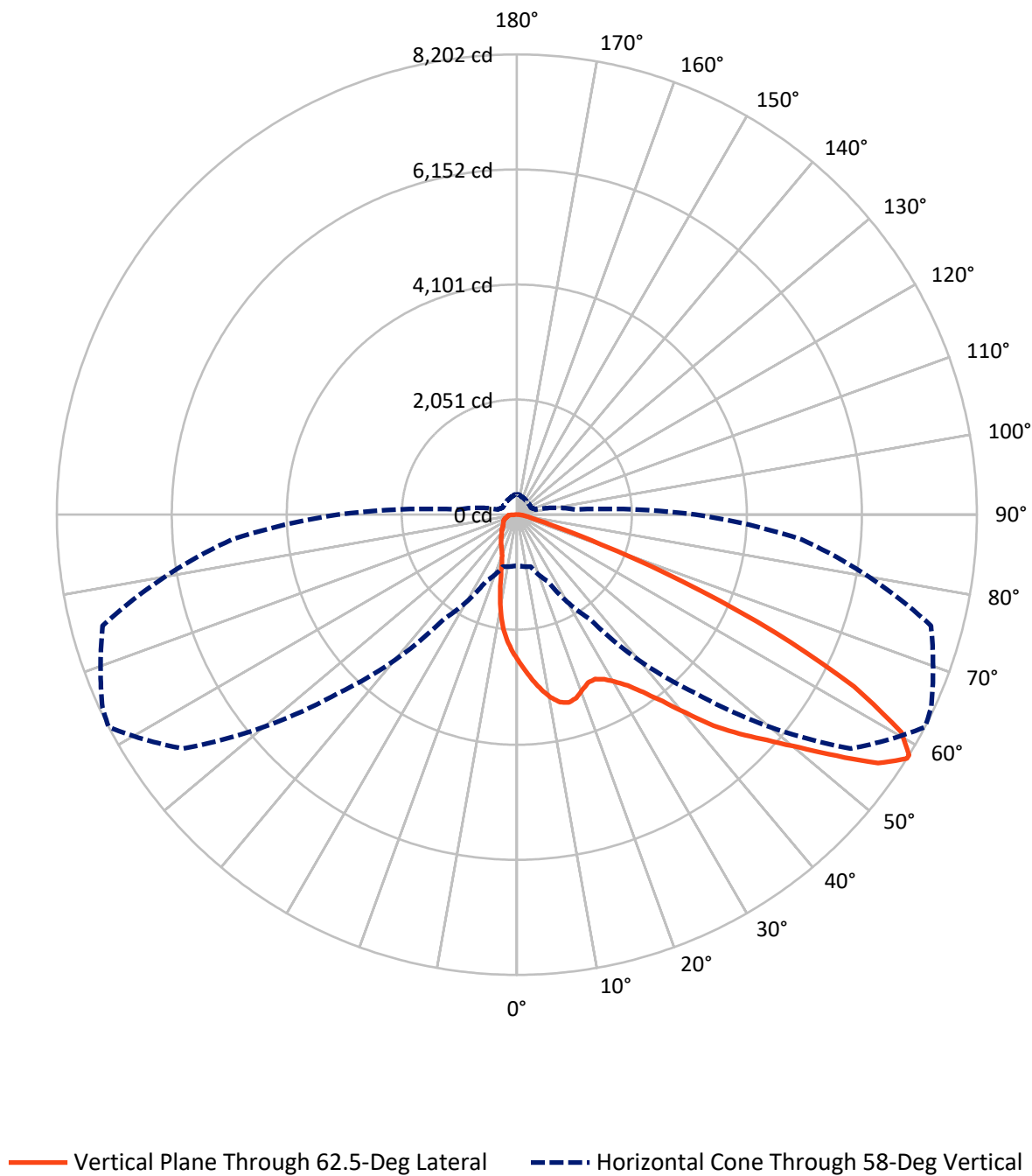


Based on 10 foot mounting height. Maximum calculated value = 31.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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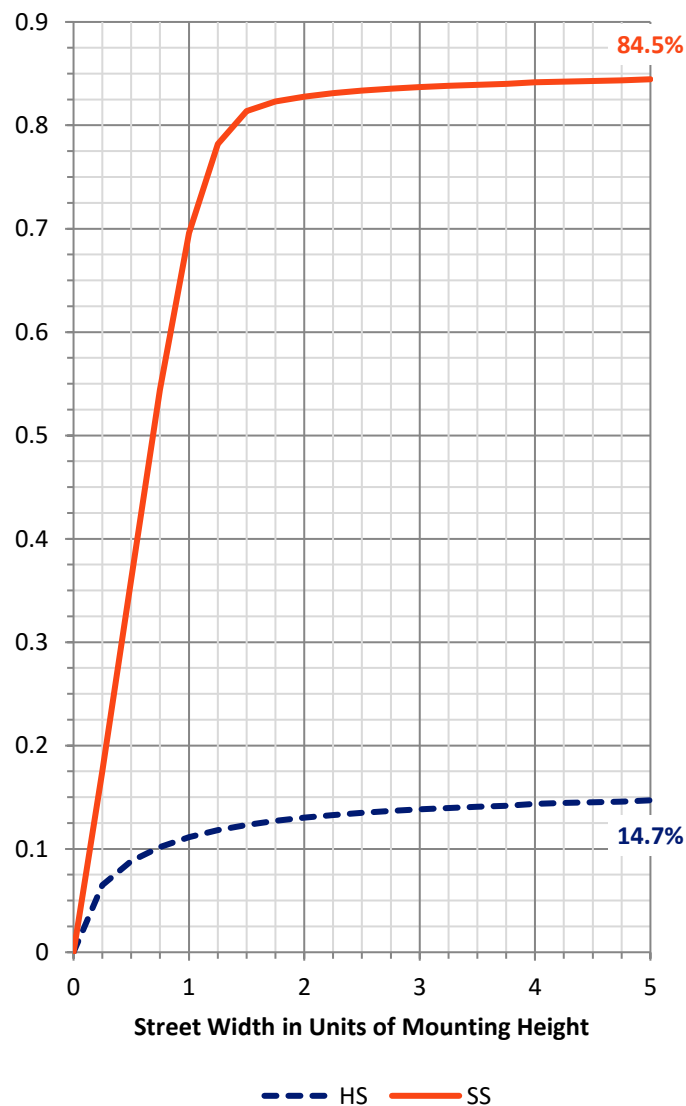
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1489.0	0.0	1489.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	8274.4	0.0	8274.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	9763.4	0.0	9763.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.9	2.4
10°-20°	592.9	6.1
20°-30°	958.4	9.8
30°-40°	1521.5	15.6
40°-50°	2226.3	22.8
50°-60°	2328.5	23.8
60°-70°	1375.7	14.1
70°-80°	387.5	4.0
80°-90°	140.7	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°	9763.4	100.0
0°-180°	9763.4	100.0

Coefficient of Utilization



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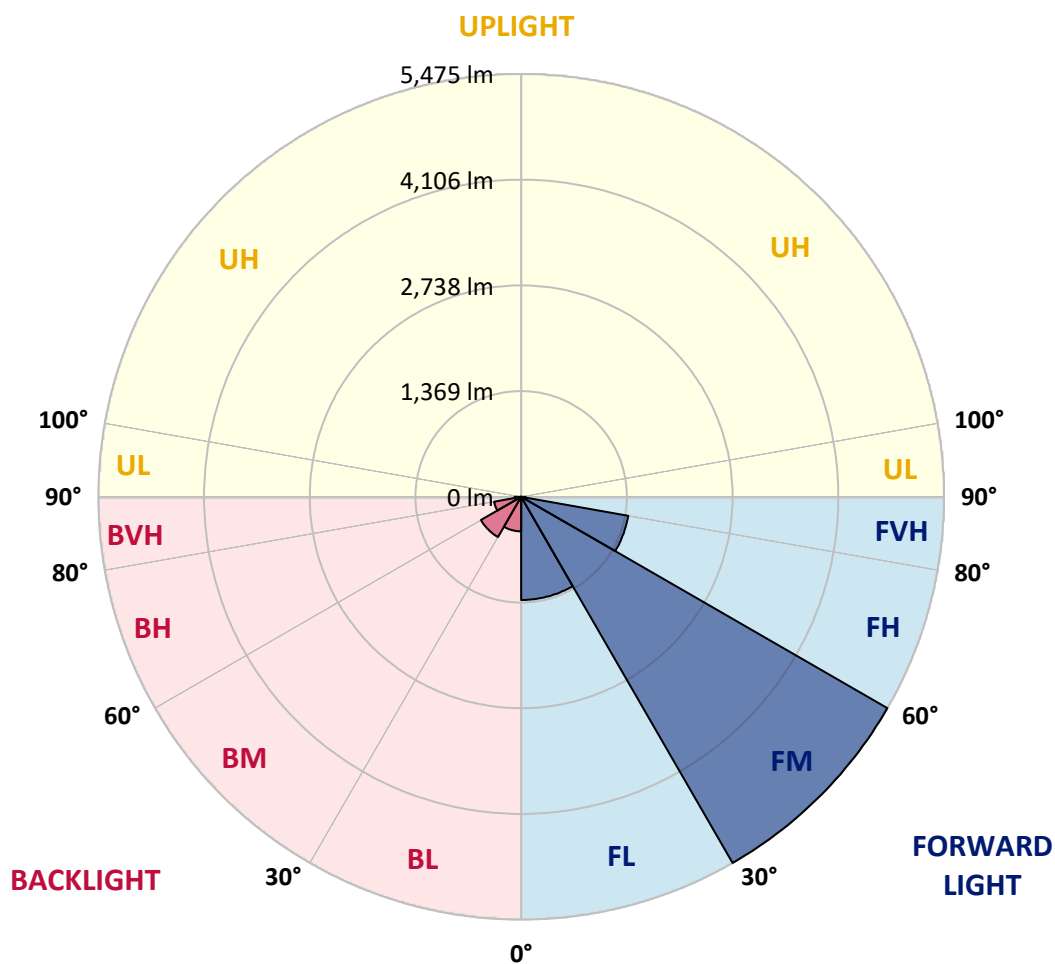
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1335.8	13.7			
FM	(30°-60°)	5475.3	56.1			
FH	(60°-80°)	1407.9	14.4			G1/1800
FVH	(80°-90°)	55.5	0.6			G1/100
BL	(0°-30°)	447.5	4.6	B1/500		
BM	(30°-60°)	601.0	6.2	B1/1000		
BH	(60°-80°)	355.3	3.6	B1/500		G1/500
BVH	(80°-90°)	85.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5
2.5°	2963.5	2939.6	2924.5	2911.1	2893.6	2856.5	2806.4	2774.6	2758.5	2703.8	2638.9
5°	3254.1	3233.0	3217.3	3199.4	3168.2	3109.7	3028.8	2964.4	2932.7	2823.4	2693.7
7.5°	3186.1	3194.8	3221.9	3269.2	3309.8	3302.0	3229.7	3147.9	3106.0	2954.0	2757.1
10°	2776.0	2791.1	2838.0	2948.8	3128.1	3312.0	3368.1	3311.5	3269.2	3083.1	2822.3
12.5°	2693.7	2693.2	2696.8	2726.3	2833.0	3091.8	3372.8	3429.7	3404.4	3206.3	2889.1
15°	2727.2	2728.2	2725.4	2737.8	2771.0	2873.4	3232.0	3475.2	3493.1	3330.4	2958.0
17.5°	2815.5	2813.2	2802.6	2802.6	2814.6	2854.6	3066.6	3432.9	3515.8	3440.3	3018.8
20°	2963.5	2953.0	2925.0	2899.2	2886.3	2907.9	2998.5	3335.4	3476.6	3536.4	3068.9
22.5°	3142.9	3134.5	3089.1	3033.9	2989.4	2988.8	3033.5	3250.5	3409.0	3627.0	3111.1
25°	3374.6	3361.3	3293.6	3205.3	3127.2	3097.4	3109.7	3246.3	3372.3	3725.3	3148.9
27.5°	3646.7	3622.4	3542.4	3415.0	3300.0	3239.9	3221.9	3321.3	3405.8	3847.2	3201.2
30°	3976.8	3948.8	3846.3	3680.3	3518.0	3419.2	3381.0	3454.1	3517.0	3995.7	3285.4
32.5°	4352.5	4312.0	4193.4	4010.4	3797.1	3646.3	3584.2	3629.7	3679.9	4174.6	3390.7
35°	4871.6	4823.2	4651.7	4399.4	4158.4	3951.2	3851.8	3884.9	3933.7	4441.2	3542.8
37.5°	5225.6	5203.9	5089.9	4852.6	4590.6	4352.1	4198.4	4217.7	4245.4	4774.5	3737.8
40°	5222.3	5231.0	5233.3	5235.6	5057.3	4828.7	4663.7	4643.5	4637.9	5140.4	3959.3
42.5°	4960.7	4996.5	5112.5	5347.3	5455.9	5351.1	5199.7	5141.4	5112.5	5571.6	4194.4
45°	4560.3	4579.6	4796.6	5255.4	5659.9	5868.2	5753.8	5569.8	5517.5	5968.1	4389.3
47.5°	4353.9	4375.0	4511.6	5011.7	5657.7	6286.1	6352.4	6002.0	5908.2	6312.8	4557.5
50°	3862.4	3906.4	4078.4	4587.8	5451.3	6478.3	6978.1	6517.0	6323.0	6648.4	4726.2
52.5°	2959.9	3027.9	3220.5	3890.8	4927.6	6383.2	7478.8	7141.3	6867.3	6996.0	4871.1
55°	1867.0	1917.6	2079.4	2748.0	3941.8	5888.0	7668.6	7816.6	7573.0	7325.2	4996.5
57.5°	1015.1	1037.6	1098.4	1517.2	2564.0	4793.3	7391.8	8201.0	8099.8	7604.8	5091.3
58°	908.5	923.7	961.4	1314.9	2273.9	4494.1	7269.1	8202.4	8151.9	7645.6	5098.6
60°	674.0	666.2	632.6	750.3	1265.7	3104.7	6527.0	7874.1	8022.7	7695.7	5062.7
62.5°	592.1	573.3	504.8	497.0	615.5	1430.3	4994.2	6745.0	7095.8	7409.8	4844.9
65°	556.3	536.0	447.8	419.3	444.1	605.1	2942.0	5058.6	5498.6	6542.7	4287.7
67.5°	529.6	503.4	411.5	372.3	374.2	400.0	1179.2	3186.1	3681.3	4967.6	3335.0
70°	503.9	475.4	380.7	335.7	325.0	316.3	468.9	1594.8	2044.0	3137.8	2126.3
72.5°	476.3	448.3	353.6	306.7	285.9	257.0	306.2	652.4	911.2	1484.5	964.5
75°	436.3	411.1	326.4	280.9	251.6	212.8	231.3	340.7	408.7	591.2	464.8
77.5°	387.1	366.4	296.1	259.7	223.0	172.8	177.9	236.3	262.0	338.3	276.3
80°	278.2	285.5	263.5	233.6	198.7	140.2	136.6	172.4	186.2	217.4	179.7
82.5°	195.3	199.5	218.0	190.7	164.1	110.4	100.7	121.4	129.7	143.0	97.0
85°	134.7	130.1	149.4	132.9	118.6	73.5	69.0	82.3	87.3	88.7	50.1
87.5°	81.0	81.0	86.5	71.2	63.9	38.1	37.2	46.9	50.1	47.8	27.6
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°	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5
2.5°	2600.4	2567.7	2498.3	2442.6	2372.3	2299.3	2258.3	2214.5	2184.7	2163.2	2197.6
5°	2620.1	2553.5	2410.0	2273.9	2123.6	1967.3	1848.6	1738.4	1661.5	1613.8	1658.8
7.5°	2651.4	2548.8	2320.3	2087.7	1817.8	1557.6	1325.0	1179.2	1094.2	1052.3	1078.6
10°	2687.2	2541.5	2215.1	1835.3	1449.1	1121.3	947.5	888.8	869.3	861.6	865.3
12.5°	2717.2	2525.8	2085.9	1530.0	1088.2	885.4	835.4	833.9	838.1	839.0	840.4
15°	2738.2	2502.9	1894.1	1211.9	870.4	806.9	804.1	812.4	820.2	823.4	825.2
17.5°	2752.6	2455.5	1677.6	958.1	779.8	768.7	775.0	785.7	794.0	796.3	798.1
20°	2751.1	2386.1	1419.8	799.0	730.5	730.5	741.6	749.8	750.3	747.6	749.0
22.5°	2737.0	2290.9	1169.6	714.4	686.9	694.7	705.7	697.9	665.7	644.5	645.9
25°	2713.0	2177.4	955.4	660.7	646.4	660.3	656.9	598.0	552.2	531.4	531.4
27.5°	2691.8	2043.1	790.8	613.8	606.0	623.0	566.0	512.7	493.3	483.7	480.4
30°	2676.7	1898.3	680.9	568.7	567.8	555.4	491.0	476.3	473.1	465.2	462.5
32.5°	2680.3	1751.7	610.5	529.2	532.4	475.4	455.2	458.4	455.6	447.3	443.7
35°	2710.7	1612.3	564.6	493.3	483.7	429.4	434.0	440.0	439.1	427.5	423.9
37.5°	2765.0	1480.4	534.3	463.5	422.1	406.5	413.8	423.0	420.6	412.9	410.0
40°	2821.9	1356.2	509.3	440.0	385.6	390.8	397.2	402.3	404.6	406.9	405.1
42.5°	2877.6	1226.7	479.1	416.1	370.6	376.1	378.8	383.9	396.3	405.1	404.6
45°	2910.6	1104.8	447.8	382.1	358.6	361.8	360.0	370.1	385.2	399.6	400.0
47.5°	2947.5	1010.1	423.0	350.8	347.1	349.4	343.8	354.0	367.7	385.2	387.1
50°	2992.1	953.5	403.1	325.9	331.5	331.5	330.1	339.2	358.6	378.8	382.5
52.5°	3042.7	942.5	386.7	308.0	315.9	315.4	316.8	330.5	351.7	371.5	374.6
55°	3104.3	972.4	368.8	294.7	300.7	302.5	307.1	322.8	340.7	363.2	364.6
57.5°	3175.9	1033.0	354.4	284.1	287.0	292.9	300.3	314.4	333.8	358.6	360.0
58°	3187.8	1045.9	352.2	283.2	284.1	291.0	299.3	313.1	332.3	359.6	360.9
60°	3188.4	1088.7	347.1	279.0	273.5	285.0	294.2	308.0	330.1	362.7	365.9
62.5°	3075.3	1088.2	343.4	273.0	262.6	276.8	287.4	303.4	327.8	370.6	377.0
65°	2707.9	988.9	325.9	263.9	253.8	269.5	281.4	300.3	334.3	404.6	408.7
67.5°	2118.1	810.4	293.4	251.1	242.3	262.0	277.7	299.8	341.1	412.4	415.1
70°	1400.3	606.4	257.5	236.3	230.3	253.4	279.4	315.4	333.3	395.8	388.5
72.5°	726.9	425.7	228.5	218.0	216.6	245.5	306.2	313.6	325.5	372.3	363.2
75°	381.7	295.6	203.2	197.6	200.0	243.6	361.3	305.3	315.4	356.3	373.7
77.5°	233.6	238.6	181.6	179.3	183.9	238.1	360.9	294.7	300.7	327.8	347.1
80°	156.3	193.6	165.1	165.5	168.7	218.0	324.2	278.2	282.8	309.9	329.6
82.5°	98.9	114.5	149.9	157.7	153.5	179.7	275.5	253.4	259.7	354.4	374.6
85°	50.1	71.7	130.1	151.8	138.4	125.9	223.4	222.1	225.3	255.6	267.1
87.5°	23.0	39.6	101.6	132.4	104.4	78.6	162.2	164.6	177.4	181.6	181.6
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)