

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: P193762

Luminaire Tested: **GAN-AF-04-LED-U-SL4-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-SL4-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17444 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 258
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

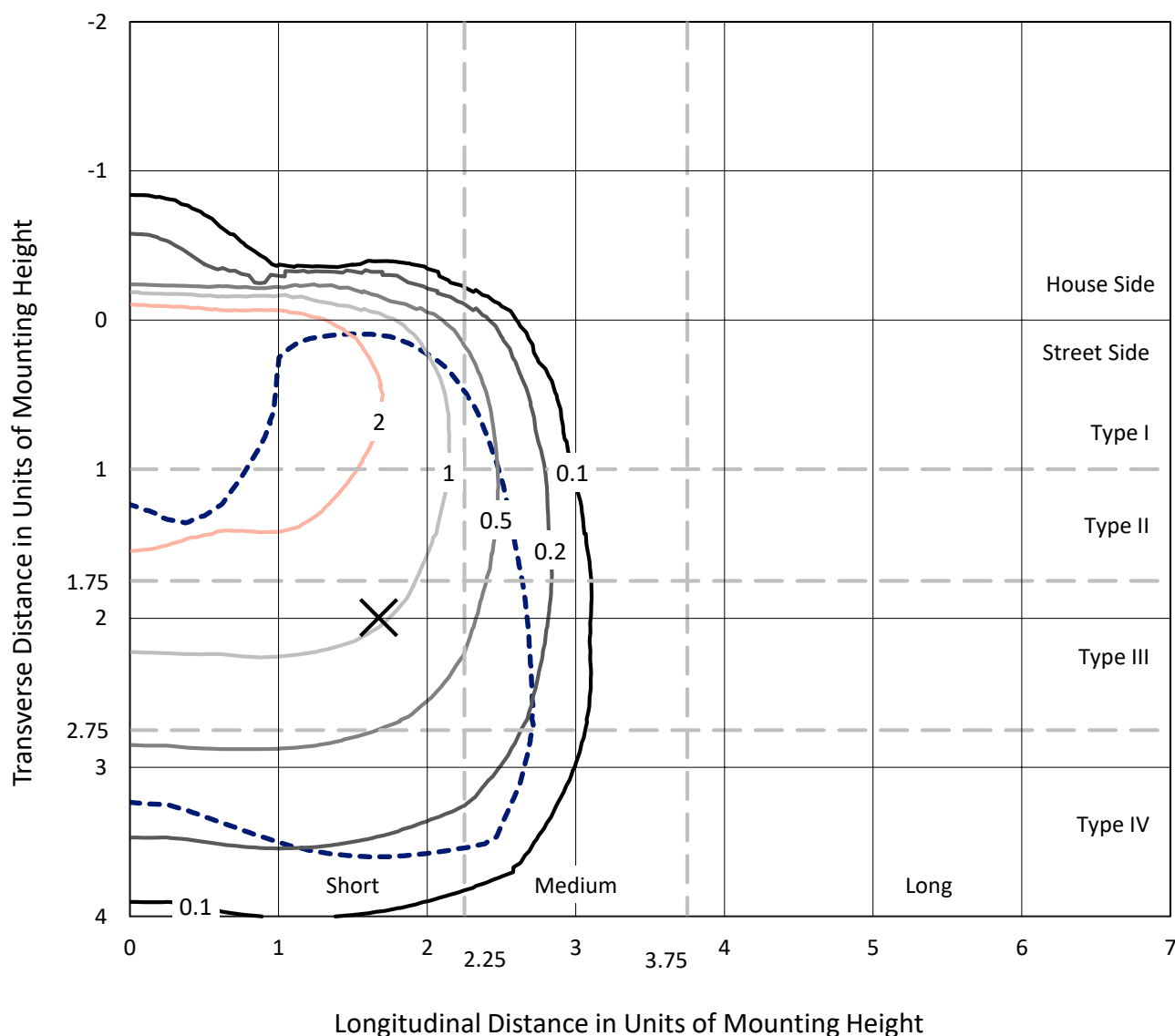


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

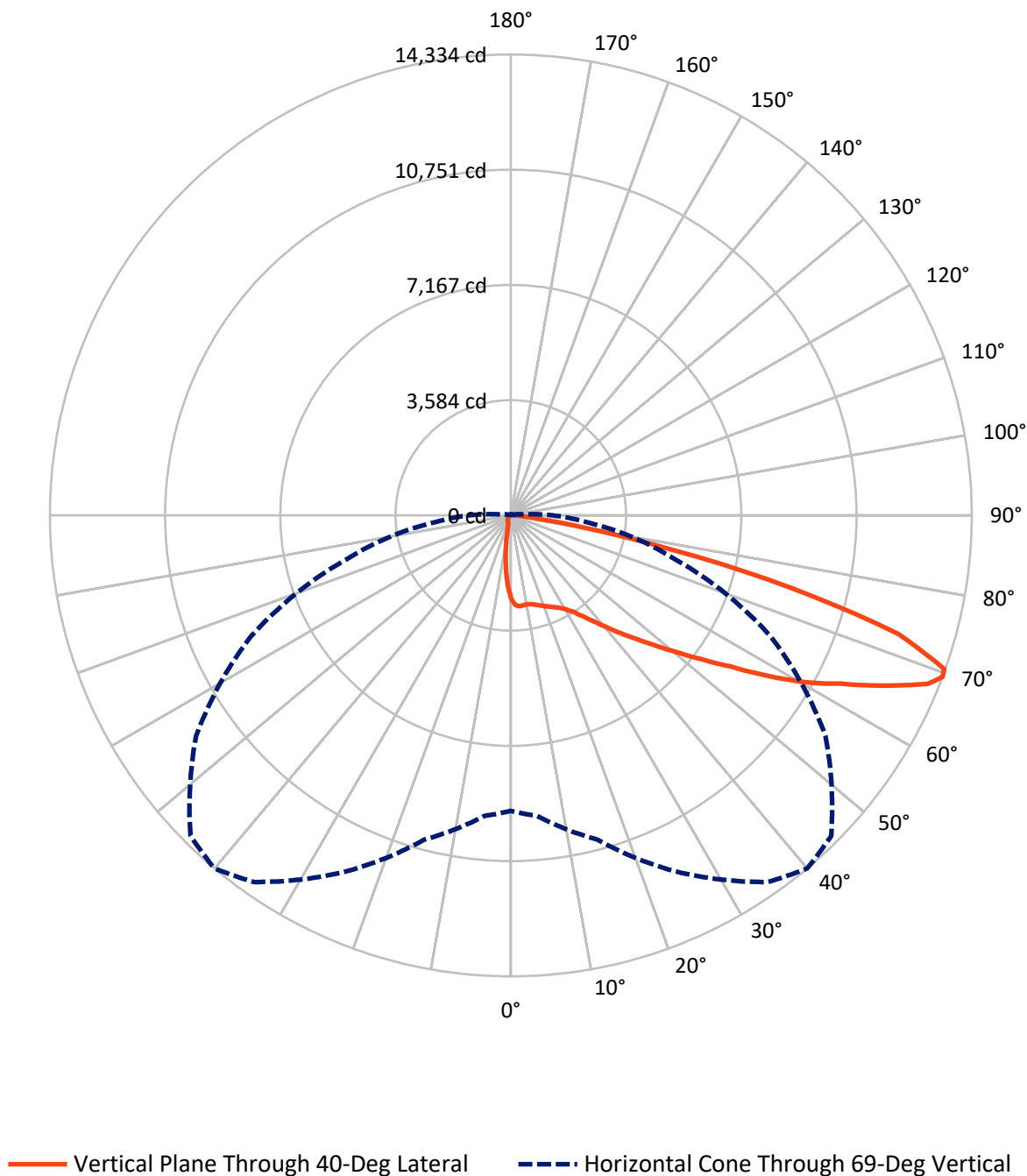


Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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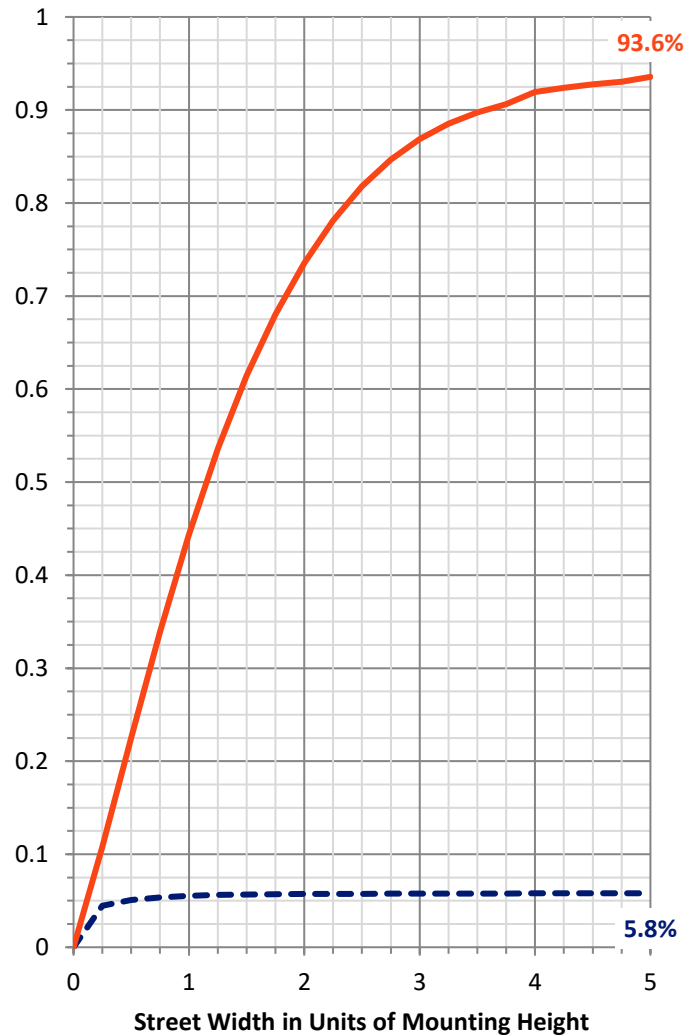
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1020.6	0.0	1020.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	16423.4	0.0	16423.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	17444.0	0.0	17444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.3	1.2
10°-20°	519.7	3.0
20°-30°	875.3	5.0
30°-40°	1432.9	8.2
40°-50°	2481.0	14.2
50°-60°	3907.8	22.4
60°-70°	5103.4	29.3
70°-80°	2628.5	15.1
80°-90°	284.3	1.6
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°	17444.0	100.0
0°-180°	17444.0	100.0

Coefficient of Utilization



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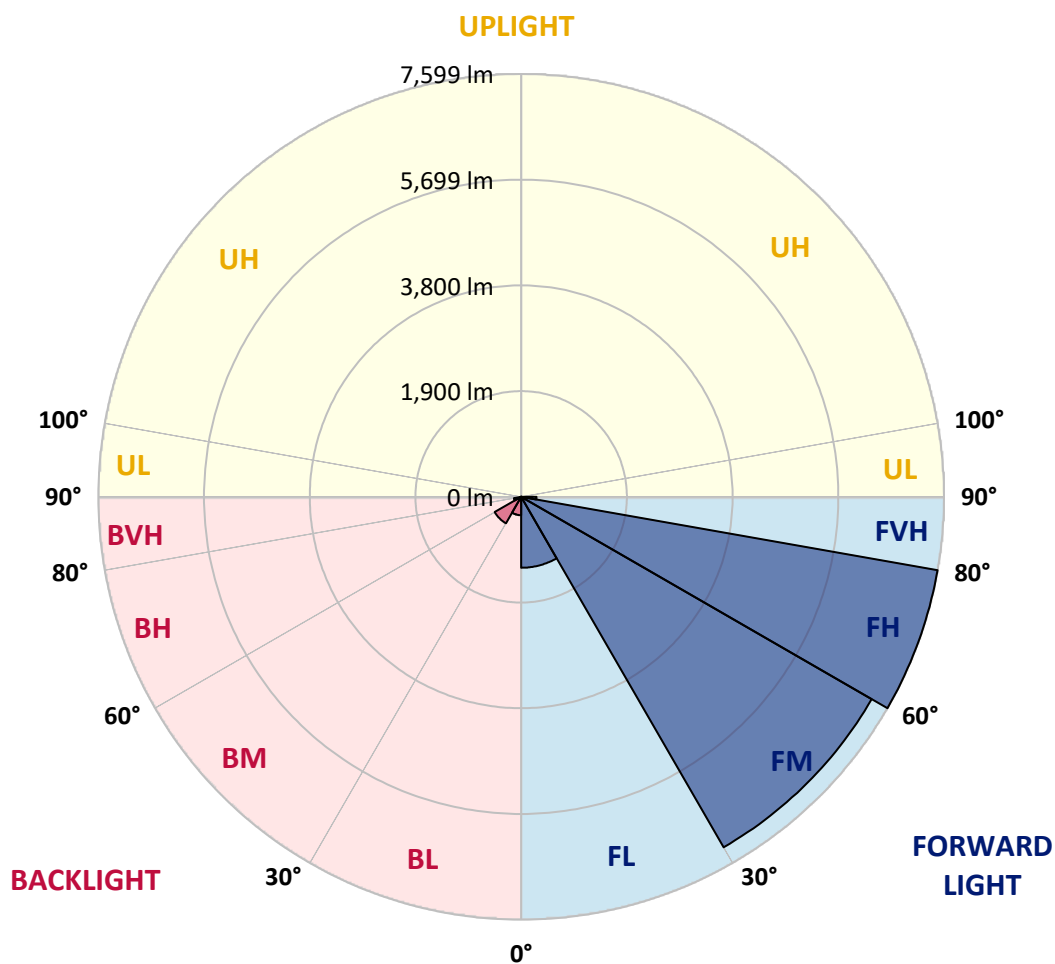
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1275.7	7.3			
FM	(30°-60°)	7273.1	41.7			
FH	(60°-80°)	7599.3	43.6			G4/12000
FVH	(80°-90°)	275.4	1.6			G3/500
BL	(0°-30°)	330.6	1.9	B1/500		
BM	(30°-60°)	548.5	3.1	B1/1000		
BH	(60°-80°)	132.5	0.8	B1/500		G1/500
BVH	(80°-90°)	8.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2
2.5°	2861.7	2846.1	2836.7	2824.3	2808.7	2795.2	2790.0	2751.6	2715.2	2665.4	2608.3
5°	2914.6	2909.4	2892.8	2876.2	2857.5	2836.7	2825.3	2779.6	2727.7	2655.0	2555.3
7.5°	2919.8	2913.6	2892.8	2870.0	2844.0	2819.1	2799.4	2753.7	2705.9	2632.2	2510.7
10°	2911.5	2904.2	2888.7	2863.7	2831.5	2807.7	2787.9	2744.3	2703.8	2637.4	2502.4
12.5°	2902.1	2894.9	2887.6	2875.2	2847.1	2830.5	2813.9	2772.4	2736.0	2679.9	2532.5
15°	2911.5	2907.3	2915.6	2910.5	2894.9	2880.3	2863.7	2826.4	2793.1	2746.4	2587.5
17.5°	2951.0	2951.0	2976.9	2980.0	2965.5	2944.7	2920.8	2883.5	2855.4	2816.0	2652.9
20°	3043.4	3040.2	3073.5	3079.7	3044.4	3012.2	2976.9	2931.2	2909.4	2884.5	2717.3
22.5°	3202.2	3187.7	3207.4	3201.2	3131.6	3081.8	3038.2	2982.1	2970.7	2959.3	2789.0
25°	3408.9	3400.6	3414.0	3352.8	3230.3	3162.8	3110.9	3047.5	3047.5	3058.9	2870.0
27.5°	3708.9	3677.8	3632.1	3524.1	3340.3	3254.1	3198.1	3130.6	3148.2	3190.8	2976.9
30°	4016.3	3982.0	3877.1	3711.0	3474.3	3383.9	3318.5	3247.9	3289.4	3367.3	3120.2
32.5°	4319.5	4281.1	4132.6	3922.8	3666.4	3576.0	3512.7	3434.8	3504.4	3635.2	3329.9
35°	4613.3	4579.1	4407.7	4160.6	3921.8	3847.0	3788.9	3721.4	3810.7	3993.4	3625.9
37.5°	4943.5	4906.1	4697.4	4429.5	4232.3	4178.3	4135.7	4068.2	4224.0	4491.8	4038.1
40°	5349.5	5286.2	5004.8	4737.9	4591.5	4565.6	4536.5	4527.1	4769.1	5139.8	4587.4
42.5°	5814.7	5710.8	5326.7	5062.9	4986.1	5004.8	4997.5	5039.0	5451.3	5945.5	5256.1
45°	6279.9	6145.9	5684.9	5409.7	5420.1	5485.5	5526.0	5692.2	6305.8	6869.6	5975.6
47.5°	6674.4	6542.6	6028.6	5784.6	5909.2	6037.9	6148.0	6462.6	7184.2	7779.2	6535.3
50°	7011.9	6887.3	6393.0	6196.8	6477.1	6684.8	6863.4	7329.6	8129.1	8471.8	6927.8
52.5°	7288.1	7205.0	6771.0	6669.2	7126.1	7430.3	7692.0	8250.6	8966.0	9034.6	7233.0
55°	7557.0	7497.8	7177.0	7231.0	7888.2	8302.5	8633.8	9227.7	9686.6	9503.9	7525.9
57.5°	7866.4	7812.4	7640.1	7943.3	8890.2	9411.5	9772.8	10093.7	10321.1	9983.6	7802.1
60°	8182.1	8150.9	8155.1	8734.5	10040.7	10541.2	10740.5	10823.6	10944.1	10435.3	7817.6
62.5°	8483.2	8542.4	8743.8	9615.0	11142.4	11526.6	11627.3	11709.3	11568.1	10506.9	7222.7
65°	8993.0	9089.6	9570.3	10793.5	12354.1	12765.3	12869.1	12587.7	11666.7	9580.7	5874.9
67.5°	9242.2	9418.7	10276.4	11892.1	13529.5	13986.4	13948.0	12644.9	10469.5	7305.7	3770.2
69°	9190.3	9378.3	10439.4	12228.5	13919.9	14334.2	14090.2	11946.1	8919.3	5292.4	2314.5
70°	8984.7	9174.7	10355.3	12216.0	13969.8	14297.9	13826.5	11083.2	7541.4	3869.9	1447.4
72.5°	7503.0	7667.1	9193.4	11041.7	12869.1	12602.3	11567.1	7678.5	3674.7	1053.9	326.0
75°	4618.5	4709.9	6596.5	8318.1	9719.9	9034.6	7706.5	3820.0	1095.4	298.0	180.7
77.5°	2440.1	2481.6	3611.3	4903.0	6161.5	5098.2	3949.8	1490.0	504.6	186.9	130.8
80°	1442.2	1473.4	1944.8	2241.8	2666.4	2227.2	1579.3	914.8	361.3	117.3	116.3
82.5°	825.5	845.2	1410.1	1246.0	1050.8	897.1	786.0	867.0	217.0	78.9	120.4
85°	303.2	307.3	793.3	948.0	625.1	371.7	390.4	718.5	58.1	49.8	94.5
87.5°	141.2	138.1	408.1	580.4	365.5	235.7	304.2	157.8	22.8	32.2	26.0
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°	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2
2.5°	2575.1	2536.7	2467.1	2395.4	2322.8	2266.7	2211.7	2168.0	2153.5	2126.5	2128.6
5°	2496.2	2425.6	2280.2	2132.7	1979.1	1852.4	1733.0	1636.4	1589.7	1541.9	1541.9
7.5°	2427.6	2324.8	2097.4	1857.6	1609.4	1400.7	1212.8	1071.6	993.7	931.4	930.3
10°	2401.7	2262.5	1944.8	1601.1	1255.3	970.8	747.6	604.3	530.6	482.8	480.7
12.5°	2413.1	2240.7	1827.5	1364.4	930.3	624.0	433.0	340.6	309.4	294.9	294.9
15°	2446.3	2234.5	1710.1	1132.8	657.3	390.4	287.6	262.7	260.6	260.6	260.6
17.5°	2486.8	2236.6	1589.7	907.5	447.5	279.3	248.2	245.0	247.1	247.1	247.1
20°	2528.3	2237.6	1459.9	698.8	315.7	243.0	233.6	232.6	234.7	234.7	235.7
22.5°	2579.2	2242.8	1330.1	522.3	260.6	229.5	222.2	222.2	223.2	223.2	222.2
25°	2637.4	2253.2	1195.1	387.3	237.8	220.1	213.9	212.9	213.9	212.9	211.8
27.5°	2710.1	2267.7	1044.6	303.2	227.4	210.8	205.6	205.6	204.6	203.5	202.5
30°	2801.4	2284.3	875.3	257.5	217.0	202.5	197.3	196.2	195.2	193.1	193.1
32.5°	2940.6	2320.7	708.1	233.6	205.6	191.1	186.9	186.9	184.8	182.7	181.7
35°	3154.5	2392.3	558.6	219.1	193.1	178.6	173.4	173.4	171.3	170.3	169.2
37.5°	3450.4	2501.4	434.0	205.6	180.7	165.1	159.9	158.9	156.8	154.7	153.7
40°	3843.9	2636.3	341.6	193.1	168.2	151.6	147.4	145.4	141.2	138.1	138.1
42.5°	4338.2	2790.0	277.2	179.6	153.7	139.1	136.0	132.9	125.6	122.5	121.5
45°	4855.3	2928.1	234.7	164.1	139.1	126.7	124.6	119.4	110.1	106.9	106.9
47.5°	5228.0	2960.3	206.6	149.5	125.6	113.2	112.1	102.8	94.5	92.4	91.4
50°	5460.6	2897.0	183.8	135.0	113.2	100.7	97.6	86.2	81.0	78.9	77.9
52.5°	5617.4	2783.8	165.1	122.5	101.8	89.3	82.0	73.7	69.6	67.5	67.5
55°	5743.0	2623.9	146.4	111.1	92.4	80.0	69.6	63.3	59.2	57.1	57.1
57.5°	5778.3	2406.9	127.7	101.8	83.1	70.6	59.2	55.0	49.8	48.8	48.8
60°	5521.9	2015.4	113.2	90.3	74.8	61.3	51.9	46.7	41.5	40.5	39.5
62.5°	4845.9	1559.6	99.7	80.0	65.4	53.0	44.6	38.4	34.3	34.3	34.3
65°	3696.5	1045.6	87.2	69.6	57.1	44.6	38.4	31.2	29.1	29.1	30.1
67.5°	2212.7	569.0	74.8	59.2	48.8	37.4	32.2	27.0	26.0	27.0	27.0
69°	1296.9	334.3	67.5	53.0	42.6	33.2	28.0	23.9	26.0	27.0	27.0
70°	800.6	225.3	62.3	47.8	38.4	30.1	26.0	22.8	24.9	26.0	26.0
72.5°	223.2	116.3	49.8	37.4	31.2	24.9	20.8	20.8	23.9	24.9	24.9
75°	145.4	86.2	38.4	28.0	23.9	19.7	17.7	19.7	22.8	23.9	23.9
77.5°	120.4	70.6	31.2	22.8	19.7	18.7	16.6	17.7	20.8	21.8	21.8
80°	110.1	49.8	24.9	20.8	17.7	16.6	15.6	14.5	18.7	19.7	19.7
82.5°	104.9	39.5	21.8	18.7	16.6	14.5	13.5	14.5	16.6	17.7	18.7
85°	65.4	26.0	19.7	17.7	14.5	13.5	13.5	13.5	15.6	16.6	16.6
87.5°	23.9	20.8	17.7	14.5	12.5	12.5	12.5	12.5	13.5	15.6	15.6
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)