

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: P193434

Luminaire Tested: **GAN-AF-06-LED-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-06-LED-U-5WQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30599 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 333
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

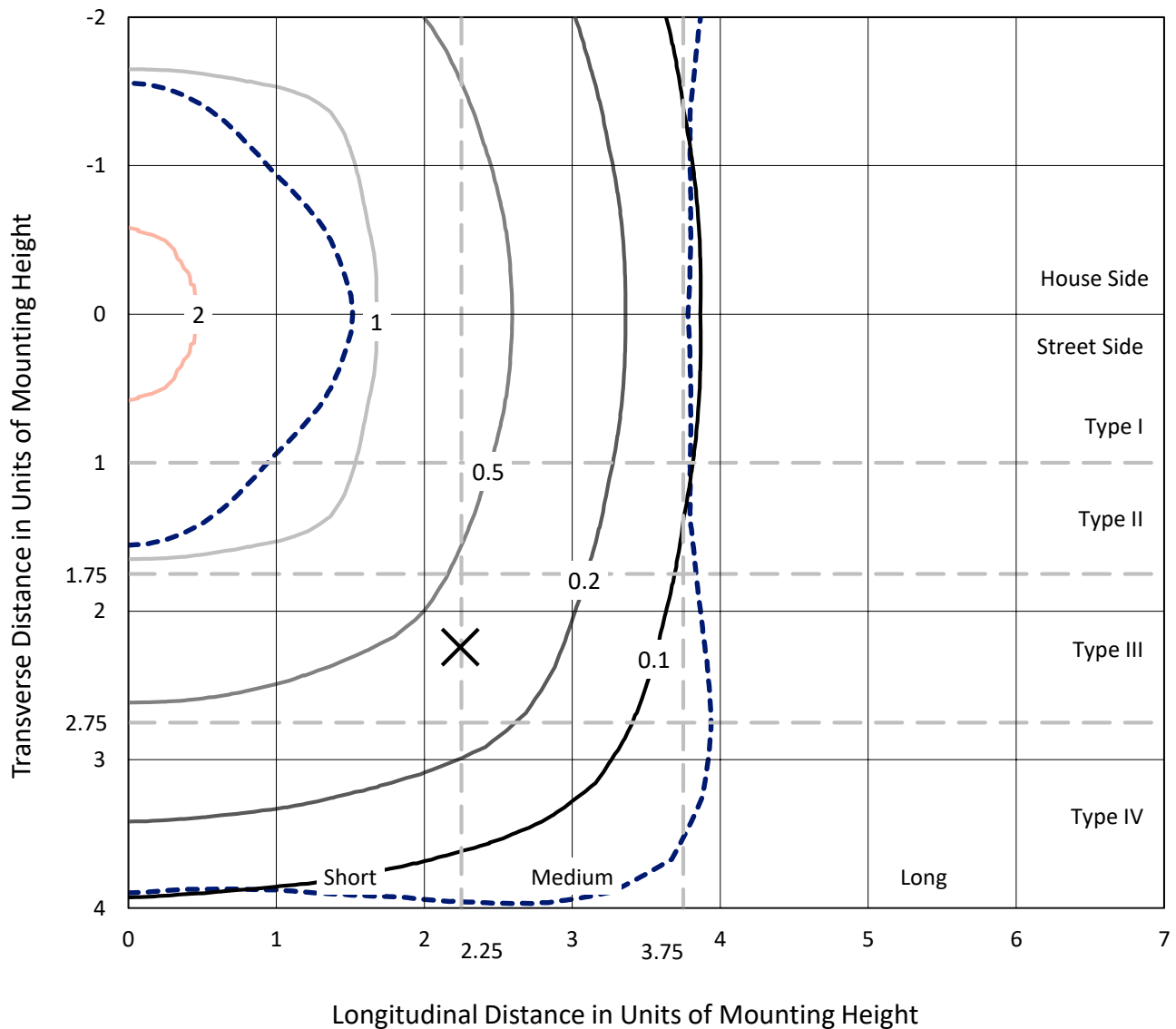


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

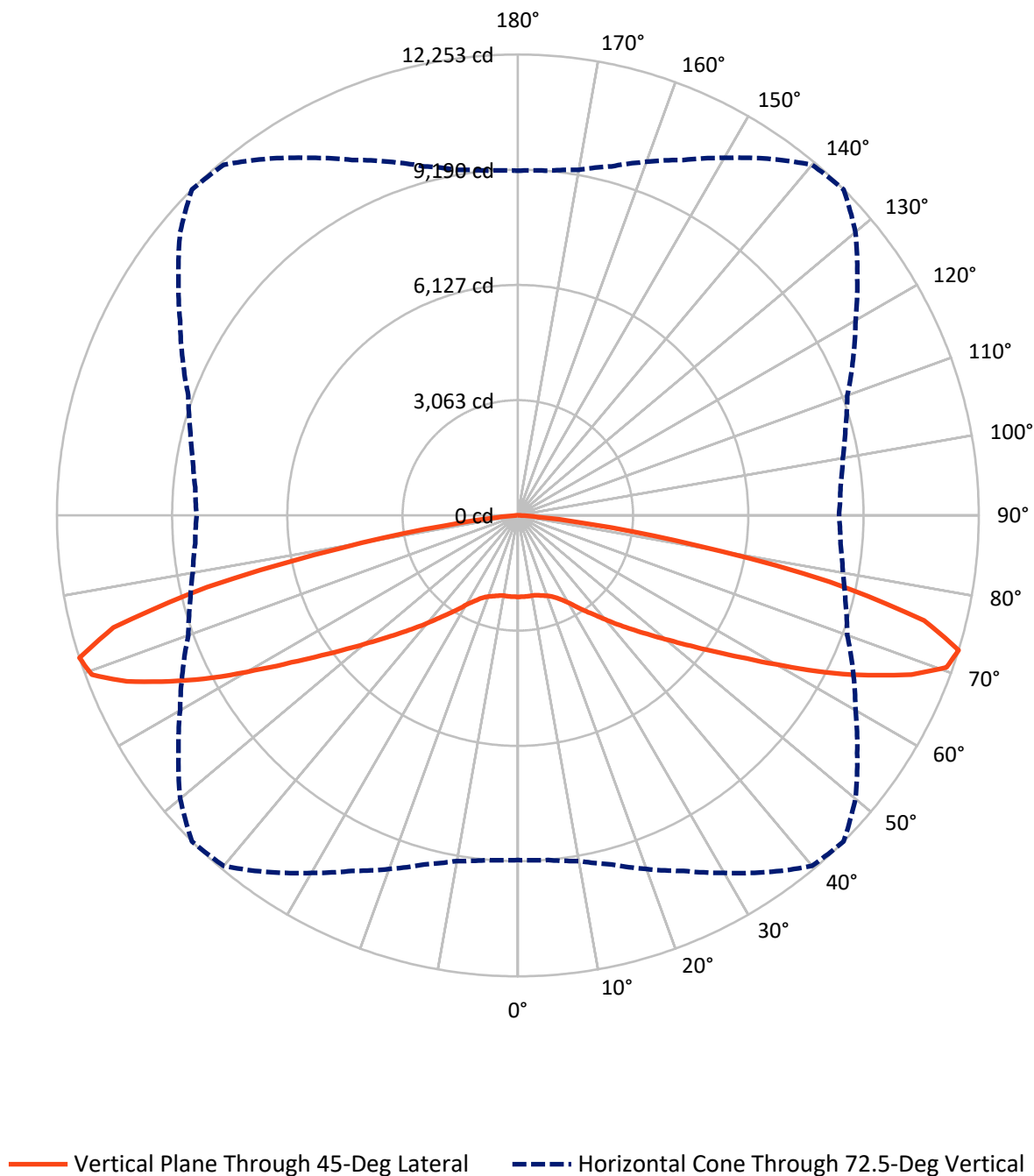


Based on 30 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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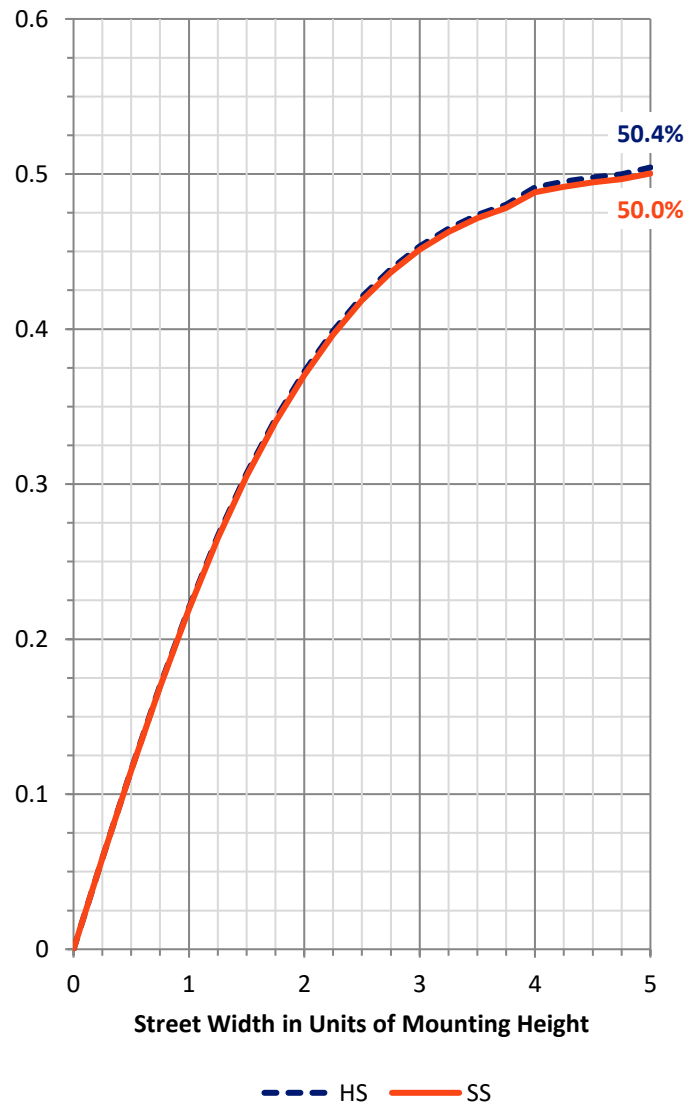
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15299.5	0.0	15299.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15299.5	0.0	15299.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30599.0	0.0	30599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.9	0.7
10°-20°	628.4	2.1
20°-30°	1148.4	3.8
30°-40°	1980.0	6.5
40°-50°	3384.8	11.1
50°-60°	5486.3	17.9
60°-70°	9101.6	29.7
70°-80°	8016.3	26.2
80°-90°	646.3	2.1
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°	30599.0	100.0
0°-180°	30599.0	100.0

Coefficient of Utilization



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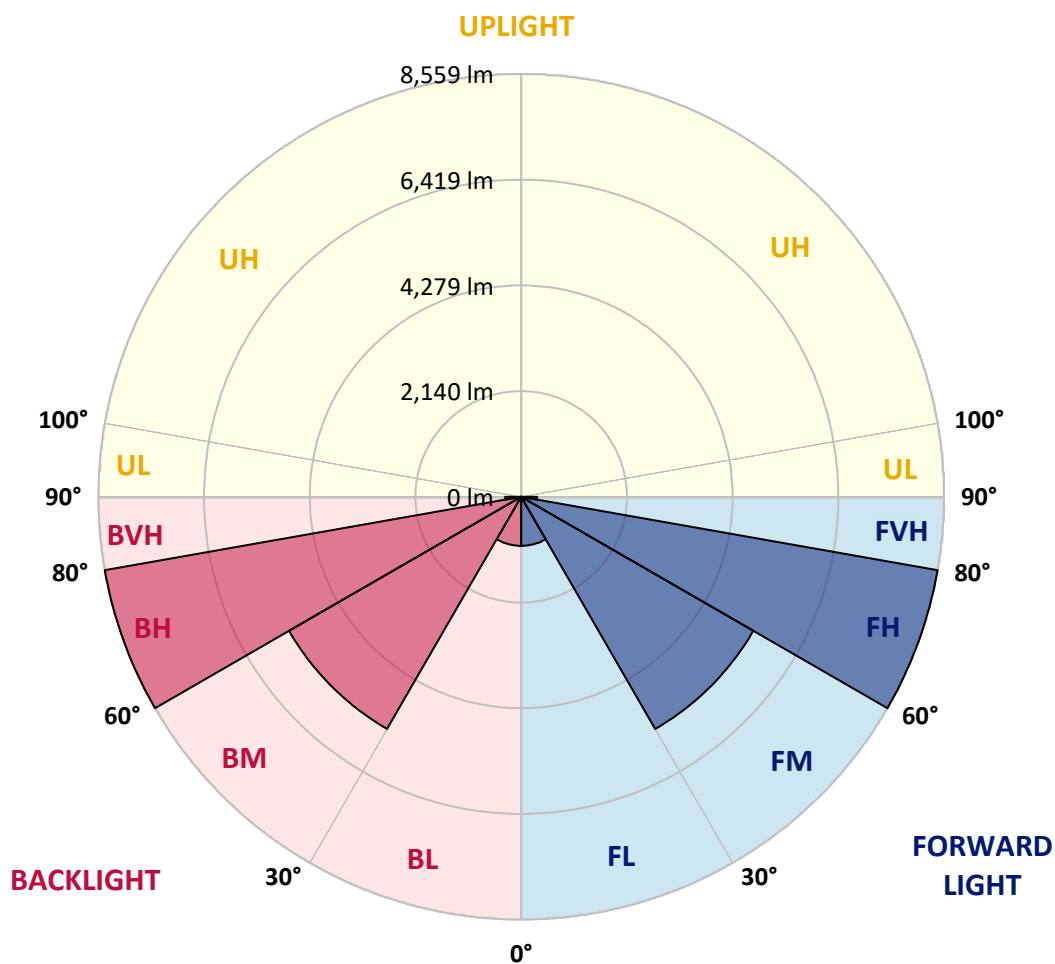
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	991.9	3.2			
FM	(30°-60°)	5425.5	17.7			
FH	(60°-80°)	8558.9	28.0			G4/12000
FVH	(80°-90°)	323.2	1.1			G3/500
BL	(0°-30°)	991.9	3.2	B2/1000		
BM	(30°-60°)	5425.5	17.7	B4/8500		
BH	(60°-80°)	8558.9	28.0	B5		G4/12000
BVH	(80°-90°)	323.2	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9
2.5°	2166.9	2168.3	2169.7	2168.3	2168.3	2166.9	2165.5	2166.9	2165.5	2162.7	2164.1
5°	2173.9	2176.7	2176.7	2173.9	2175.3	2173.9	2171.1	2172.5	2169.7	2165.5	2165.5
7.5°	2182.3	2183.7	2183.7	2180.9	2182.3	2179.5	2176.7	2175.3	2172.5	2166.9	2162.7
10°	2195.0	2196.4	2195.0	2192.1	2192.1	2187.9	2180.9	2178.1	2172.5	2164.1	2159.9
12.5°	2209.0	2210.4	2209.0	2206.2	2204.8	2197.8	2192.1	2187.9	2183.7	2176.7	2169.7
15°	2228.6	2231.4	2228.6	2223.0	2218.8	2213.2	2210.4	2211.8	2213.2	2207.6	2200.6
17.5°	2265.1	2266.5	2262.3	2249.7	2244.1	2238.5	2238.5	2241.3	2245.5	2242.7	2235.7
20°	2332.5	2328.3	2318.5	2303.0	2296.0	2286.2	2284.8	2286.2	2286.2	2284.8	2279.2
22.5°	2416.7	2413.9	2401.3	2381.6	2371.8	2366.2	2357.8	2350.7	2349.3	2345.1	2339.5
25°	2517.7	2516.3	2500.9	2484.1	2477.0	2470.0	2463.0	2453.2	2444.8	2434.9	2429.3
27.5°	2646.9	2641.2	2618.8	2610.4	2600.5	2596.3	2586.5	2575.3	2568.3	2555.6	2548.6
30°	2788.6	2788.6	2770.4	2767.5	2767.5	2757.7	2746.5	2726.9	2714.2	2701.6	2697.4
32.5°	2930.3	2931.7	2913.5	2919.1	2923.3	2930.3	2933.2	2926.1	2917.7	2916.3	2907.9
35°	3135.2	3129.6	3111.4	3115.6	3114.2	3112.8	3112.8	3128.2	3131.0	3133.8	3117.0
37.5°	3389.3	3389.3	3371.0	3371.0	3362.6	3354.2	3343.0	3352.8	3368.2	3372.4	3361.2
40°	3679.8	3689.6	3667.1	3665.7	3668.5	3641.9	3629.3	3644.7	3654.5	3671.4	3658.7
42.5°	4022.2	4015.2	3992.7	3989.9	3974.5	3966.1	3954.8	3967.5	3982.9	3994.1	3998.4
45°	4350.6	4345.0	4319.7	4319.7	4304.3	4297.3	4302.9	4323.9	4331.0	4346.4	4361.8
47.5°	4674.8	4667.8	4650.9	4658.0	4659.4	4672.0	4690.2	4709.9	4729.5	4750.6	4757.6
50°	5006.0	5007.4	4989.2	5006.0	5027.1	5062.1	5111.3	5143.5	5184.2	5210.9	5219.3
52.5°	5307.7	5313.4	5333.0	5372.3	5414.4	5483.2	5567.4	5646.0	5713.3	5758.2	5755.4
55°	5669.8	5678.2	5726.0	5793.3	5862.1	5965.9	6090.9	6229.8	6342.1	6406.6	6365.9
57.5°	6133.0	6151.2	6204.5	6295.8	6398.2	6532.9	6704.1	6913.3	7087.3	7174.3	7108.3
60°	6768.7	6779.9	6844.5	6945.5	7069.0	7236.0	7464.8	7745.5	7991.1	8106.2	8030.4
62.5°	7606.6	7627.6	7679.5	7782.0	7908.3	8097.7	8377.0	8727.9	9033.8	9193.8	9022.6
65°	8607.2	8674.6	8718.1	8821.9	8939.8	9140.5	9432.4	9808.5	10136.9	10242.2	10044.3
67.5°	9598.0	9657.0	9732.7	9852.0	9971.3	10197.3	10468.1	10833.0	11193.7	11289.1	10981.8
70°	10031.7	10065.3	10183.2	10346.0	10574.8	10841.4	11154.4	11564.2	12010.5	12089.1	11698.9
72.5°	9162.9	9196.6	9328.6	9605.0	10003.6	10427.4	10973.4	11575.4	12164.9	12253.3	11715.8
75°	6930.1	6875.4	7070.4	7436.7	7974.2	8565.1	9328.6	10191.7	11043.5	11154.4	10513.0
77.5°	3581.5	3574.5	3721.9	4176.6	4817.9	5490.2	6330.8	7306.2	8139.9	8476.7	7954.6
80°	1009.1	1020.3	1090.5	1316.4	1691.1	2176.7	2833.5	3747.1	4429.2	4777.3	4485.3
82.5°	395.8	426.6	453.3	495.4	544.5	616.1	822.4	1223.8	1642.0	1962.0	1606.9
85°	141.7	151.6	214.7	254.0	258.2	272.3	310.2	362.1	436.5	520.7	428.0
87.5°	53.3	58.9	68.8	113.7	112.3	102.4	124.9	130.5	98.2	89.8	110.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9	2166.9
2.5°	2161.3	2162.7	2162.7	2164.1	2165.5	2165.5	2168.3	2168.3
5°	2162.7	2162.7	2159.9	2161.3	2159.9	2159.9	2161.3	2161.3
7.5°	2159.9	2158.5	2155.7	2154.3	2151.4	2151.4	2151.4	2151.4
10°	2155.7	2154.3	2151.4	2150.0	2148.6	2148.6	2148.6	2148.6
12.5°	2166.9	2162.7	2159.9	2158.5	2158.5	2158.5	2158.5	2158.5
15°	2196.4	2186.5	2179.5	2179.5	2180.9	2183.7	2183.7	2186.5
17.5°	2232.8	2221.6	2214.6	2209.0	2211.8	2216.0	2218.8	2221.6
20°	2276.4	2270.7	2260.9	2255.3	2255.3	2260.9	2263.7	2265.1
22.5°	2336.7	2332.5	2328.3	2321.3	2321.3	2324.1	2329.7	2329.7
25°	2426.5	2423.7	2420.9	2415.3	2413.9	2413.9	2416.7	2419.5
27.5°	2538.8	2540.2	2537.4	2536.0	2531.8	2530.4	2534.6	2533.2
30°	2689.0	2696.0	2703.0	2697.4	2690.4	2686.2	2681.9	2676.3
32.5°	2892.5	2884.0	2878.4	2868.6	2856.0	2844.7	2836.3	2826.5
35°	3084.7	3070.7	3065.1	3073.5	3072.1	3065.1	3055.3	3046.8
37.5°	3320.5	3317.7	3320.5	3335.9	3333.1	3340.1	3320.5	3319.1
40°	3618.0	3620.8	3640.5	3658.7	3668.5	3678.4	3667.1	3655.9
42.5°	3963.3	3961.9	3968.9	3994.1	4011.0	4022.2	3998.4	3995.5
45°	4328.2	4318.3	4323.9	4345.0	4361.8	4374.5	4347.8	4347.8
47.5°	4729.5	4712.7	4694.4	4718.3	4728.1	4736.6	4715.5	4708.5
50°	5177.2	5142.1	5102.8	5112.7	5112.7	5109.9	5083.2	5081.8
52.5°	5690.9	5626.3	5554.7	5528.1	5512.6	5495.8	5449.5	5427.0
55°	6281.7	6184.9	6072.6	6003.8	5967.4	5921.0	5843.9	5822.8
57.5°	6972.2	6820.6	6627.0	6542.8	6461.4	6385.6	6300.0	6276.1
60°	7790.4	7567.3	7310.4	7154.6	7066.2	6993.3	6904.8	6900.6
62.5°	8702.6	8350.4	8059.9	7919.5	7855.0	7790.4	7706.2	7717.4
65°	9630.3	9262.6	8990.3	8876.6	8816.3	8763.0	8678.8	8691.4
67.5°	10545.3	10207.1	9908.2	9791.7	9724.3	9657.0	9581.2	9593.8
70°	11202.1	10782.5	10445.7	10187.4	10026.1	9843.6	9725.7	9696.2
72.5°	11014.1	10367.1	9832.4	9320.1	9019.8	8775.6	8610.0	8538.4
75°	9532.0	8647.9	7960.2	7331.5	6977.8	6690.1	6481.0	6350.5
77.5°	7078.9	6085.2	5272.7	4548.5	3975.9	3591.4	3320.5	3145.1
80°	3874.8	2947.2	2154.3	1514.3	1112.9	924.9	816.8	764.9
82.5°	1206.9	778.9	574.0	495.4	460.3	440.7	408.4	356.5
85°	384.5	336.8	313.0	298.9	284.9	248.4	171.2	155.8
87.5°	148.8	153.0	151.6	143.1	146.0	105.3	84.2	74.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)