

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: P322629

Luminaire Tested: **GAN-SA5A-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 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: 16540 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

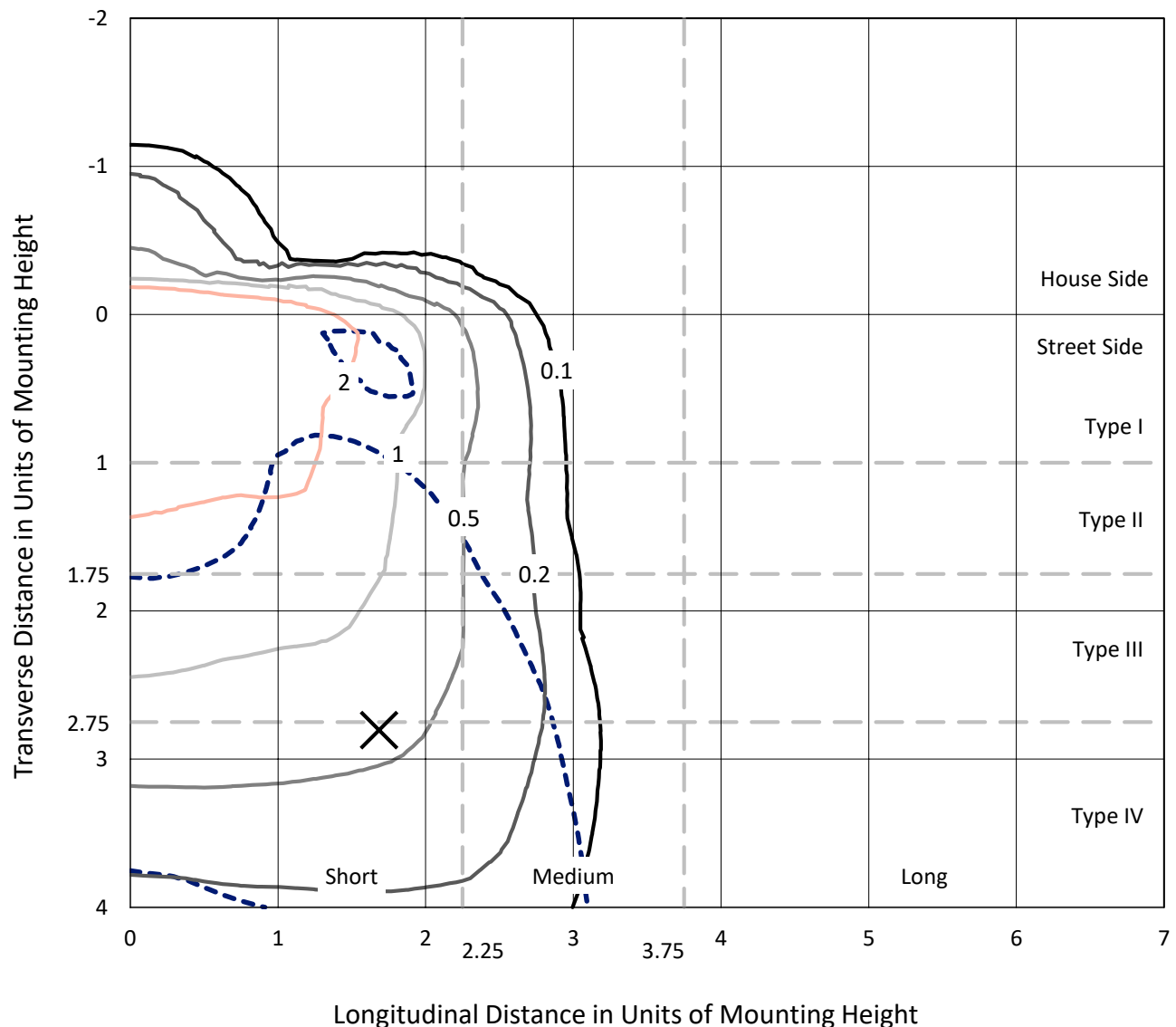
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

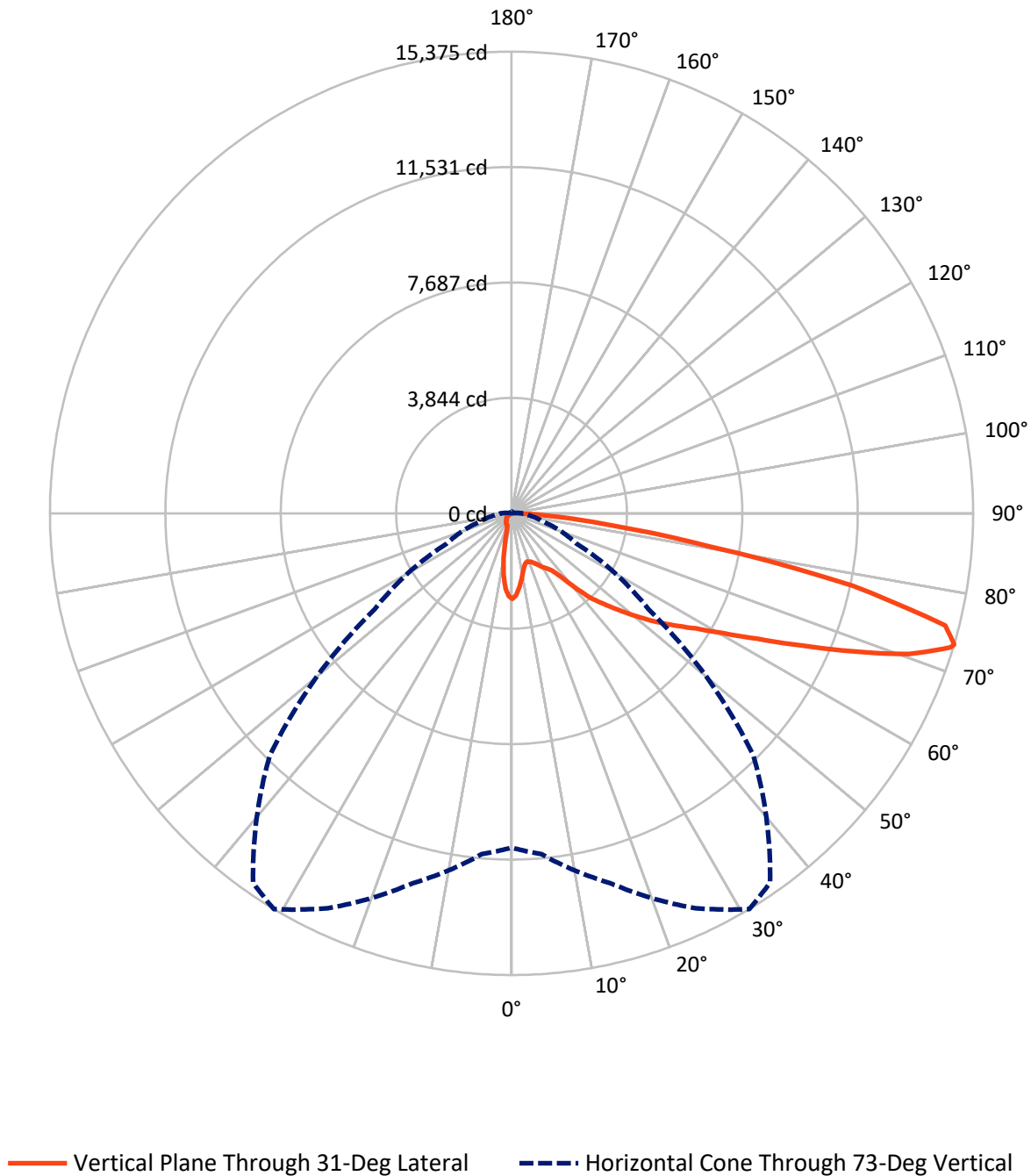
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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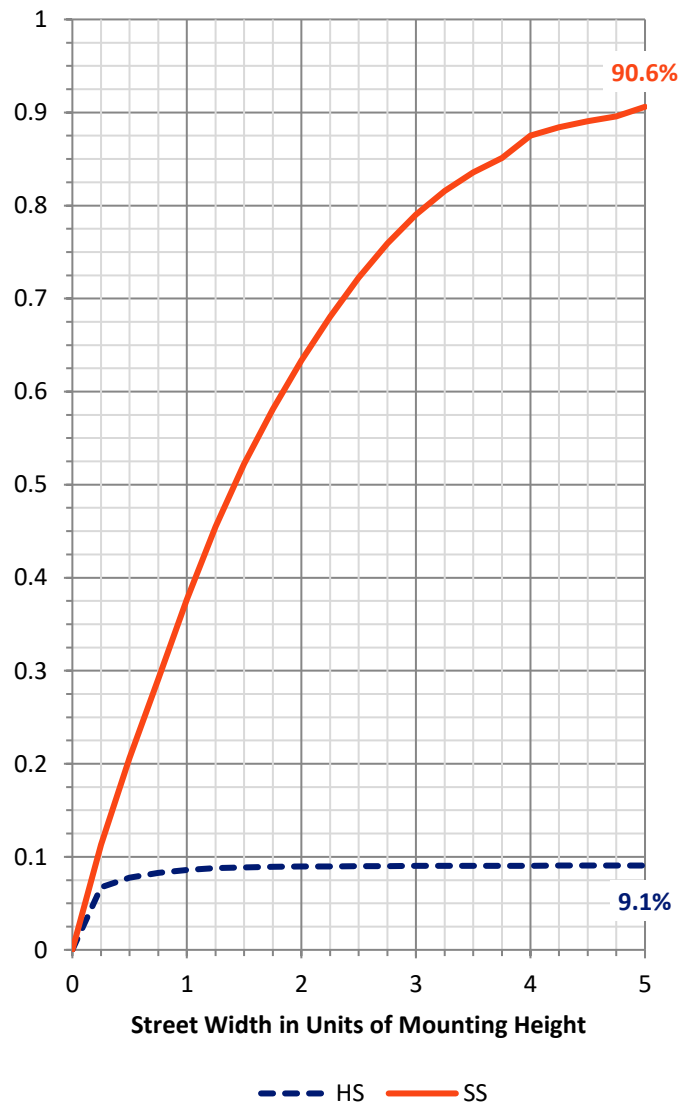
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1507.7	0.0	1507.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	15032.3	0.0	15032.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	16540.0	0.0	16540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.0	1.4
10°-20°	512.3	3.1
20°-30°	767.6	4.6
30°-40°	1221.3	7.4
40°-50°	2180.8	13.2
50°-60°	3384.0	20.5
60°-70°	4498.6	27.2
70°-80°	3383.9	20.5
80°-90°	355.6	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°	16540.0	100.0
0°-180°	16540.0	100.0

Coefficient of Utilization



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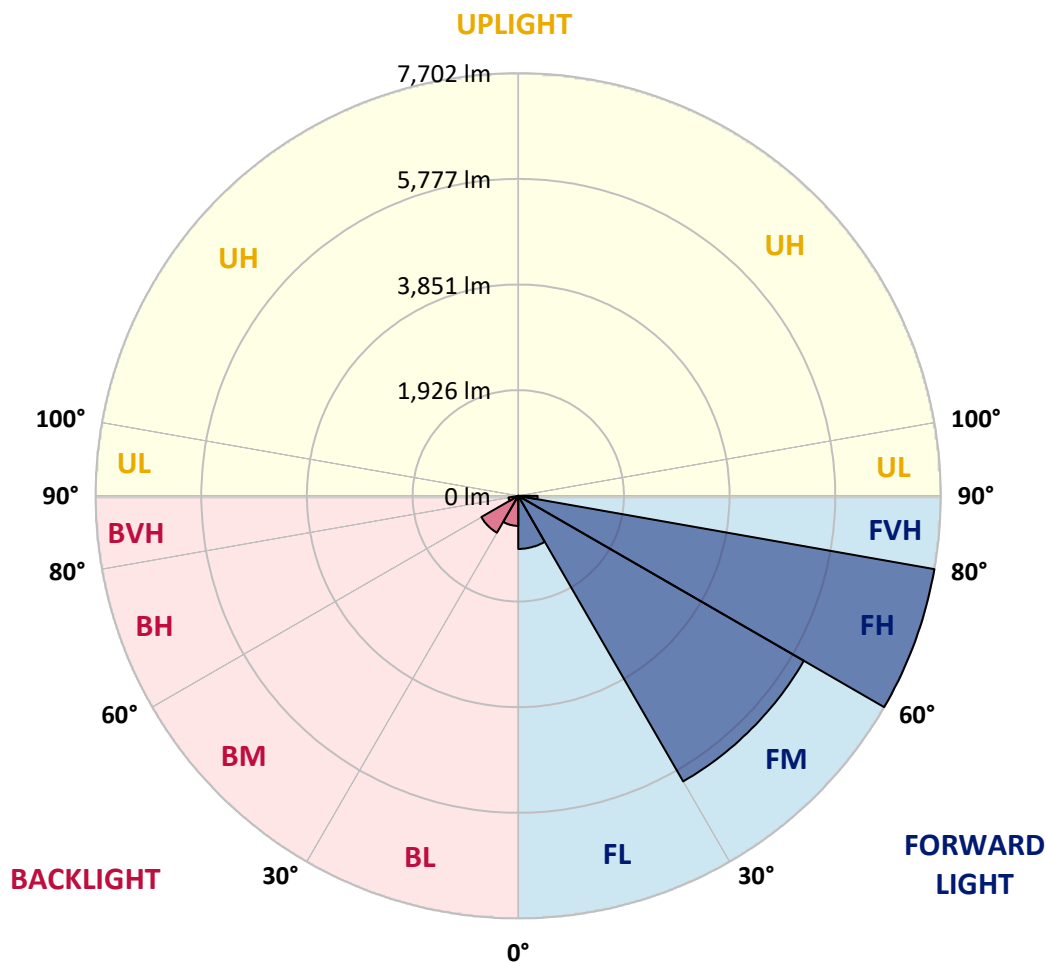
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	967.6	5.9			
FM	(30°-60°)	6010.1	36.3			
FH	(60°-80°)	7702.1	46.6			G4/12000
FVH	(80°-90°)	352.6	2.1			G3/500
BL	(0°-30°)	548.3	3.3	B2/1000		
BM	(30°-60°)	776.0	4.7	B1/1000		
BH	(60°-80°)	180.4	1.1	B1/500		G1/500
BVH	(80°-90°)	3.0	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°	31°	35°	45°	55°	65°	75°	85°
0°	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7
2.5°	2696.8	2708.1	2720.3	2722.7	2743.0	2743.8	2772.9	2794.8	2816.6	2837.6	2844.9
5°	2420.0	2438.6	2460.5	2482.3	2525.2	2542.2	2613.5	2686.3	2755.9	2822.3	2854.6
7.5°	2124.6	2145.6	2176.4	2230.6	2278.4	2311.6	2424.1	2553.6	2683.1	2805.3	2875.7
10°	1855.1	1874.5	1906.9	1964.3	2038.0	2083.3	2234.7	2414.3	2604.5	2789.9	2907.3
12.5°	1683.5	1694.0	1711.8	1773.3	1839.7	1890.7	2068.7	2291.3	2539.8	2789.1	2958.2
15°	1651.9	1655.2	1640.6	1668.1	1719.9	1769.3	1949.8	2191.8	2490.4	2802.0	3024.6
17.5°	1702.1	1700.5	1651.9	1648.7	1690.0	1730.4	1891.5	2123.0	2455.6	2832.0	3110.4
20°	1778.2	1772.5	1688.3	1673.0	1716.7	1754.7	1887.4	2097.1	2442.7	2882.2	3214.8
22.5°	1879.4	1869.6	1737.7	1721.5	1768.5	1808.1	1937.6	2122.2	2454.0	2949.3	3336.2
25°	2004.8	1990.2	1822.7	1804.9	1852.6	1892.3	2027.5	2194.2	2488.0	3031.1	3490.0
27.5°	2146.4	2125.4	1958.7	1912.5	1966.8	2008.0	2147.3	2304.3	2541.4	3117.7	3678.6
30°	2280.0	2252.5	2101.9	2025.9	2092.2	2138.4	2276.8	2435.4	2627.2	3251.2	3936.8
32.5°	2414.3	2383.6	2229.8	2139.2	2199.1	2249.2	2410.3	2615.9	2788.3	3455.2	4279.9
35°	2723.5	2691.2	2502.6	2352.8	2352.0	2380.4	2597.3	2862.7	3001.1	3739.3	4689.5
37.5°	3244.0	3225.3	3045.7	2761.6	2685.5	2653.9	2852.2	3157.3	3307.1	4130.2	5151.6
40°	3813.7	3797.6	3596.0	3338.6	3222.9	3145.2	3218.1	3567.7	3739.3	4607.7	5623.5
42.5°	4457.2	4380.3	4020.9	3944.1	3840.5	3781.4	3715.8	4073.6	4270.2	5127.4	6091.3
45°	5041.6	4912.1	4445.9	4329.3	4305.8	4320.4	4356.8	4753.4	4867.5	5744.9	6557.5
47.5°	5389.6	5287.6	4929.9	4818.2	4811.7	4908.0	5183.2	5521.5	5462.4	6283.1	6967.9
50°	5720.6	5628.4	5331.3	5358.8	5388.8	5519.9	6121.3	6311.5	6005.5	6771.2	7344.2
52.5°	5988.5	5847.7	5692.3	5846.9	5994.2	6205.4	7089.3	7020.5	6390.8	7159.7	7666.3
55°	6143.1	6079.2	6154.4	6309.8	6586.6	6929.8	8003.0	7610.5	6672.4	7514.2	7880.8
57.5°	6709.7	6584.2	6733.9	6868.3	7229.3	7709.2	8785.7	8050.0	6875.6	7733.5	7930.2
60°	7395.2	7294.0	7382.3	7605.6	8092.9	8657.0	9517.4	8408.5	6981.6	7874.3	7802.3
62.5°	8486.2	8352.7	8297.6	8547.7	9193.6	9809.6	10072.6	8657.0	6958.1	7812.0	7363.6
65°	9948.0	9809.6	9563.5	9790.1	10611.6	11046.3	10693.4	8709.6	6796.3	7307.8	6254.8
67.5°	11445.3	11344.9	11134.5	11516.5	12257.9	12397.9	11349.8	8581.7	6275.0	5925.4	4419.2
70°	12434.3	12391.4	12528.2	13373.2	14034.5	13994.0	11951.9	7894.6	4891.0	3643.8	2186.1
72.5°	11721.3	11926.9	12937.0	14469.1	15276.8	14946.6	11642.8	6062.2	2795.6	1401.8	632.1
73°	11130.4	11393.5	12753.2	14510.4	15374.8	15013.0	11383.0	5564.4	2382.8	1106.4	479.1
75°	7743.2	8066.2	10558.2	13514.0	14916.7	14304.0	9488.2	3405.8	1104.0	490.5	193.4
77.5°	3759.5	3998.3	5813.7	9764.2	11600.7	11175.8	5906.8	1269.1	498.6	306.8	89.0
80°	1403.4	1560.5	2523.6	4969.5	6704.0	6879.6	2598.1	480.0	331.8	246.9	45.3
82.5°	367.5	409.5	930.8	2216.1	3435.8	3596.0	819.1	242.0	242.8	203.2	27.5
85°	117.4	134.4	290.6	994.7	1618.7	1421.3	213.7	117.4	176.4	151.4	15.4
87.5°	14.6	18.6	92.3	233.9	356.9	198.3	33.2	34.8	75.3	84.2	8.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7	2845.7
2.5°	2852.2	2848.2	2849.0	2827.9	2814.2	2786.7	2758.3	2745.4	2731.6	2726.0	2731.6
5°	2866.8	2859.5	2838.5	2773.7	2704.9	2615.9	2532.5	2469.4	2390.1	2368.2	2390.9
7.5°	2889.4	2874.9	2813.4	2681.4	2528.5	2358.5	2167.5	2028.3	1914.2	1840.5	1867.2
10°	2922.6	2895.1	2771.3	2547.1	2273.5	1972.4	1701.3	1490.0	1340.3	1278.8	1276.4
12.5°	2978.5	2926.7	2719.5	2372.3	1961.9	1560.5	1205.2	976.1	854.7	776.2	774.6
15°	3040.0	2963.9	2653.9	2162.6	1599.3	1117.7	776.2	602.2	523.7	498.6	495.3
17.5°	3115.3	3006.8	2568.9	1904.4	1219.7	740.6	506.7	456.5	453.2	450.8	450.8
20°	3210.0	3057.8	2459.7	1609.0	865.2	494.5	430.6	433.8	435.4	432.2	433.0
22.5°	3320.0	3109.6	2329.4	1291.8	585.2	413.6	412.0	416.0	417.6	416.0	416.8
25°	3447.9	3169.5	2170.7	959.1	422.5	392.5	396.6	402.3	406.3	406.3	406.3
27.5°	3606.5	3242.3	1979.7	669.3	365.0	370.7	382.0	392.5	398.2	399.8	399.8
30°	3812.9	3333.0	1750.7	458.9	331.8	341.6	362.6	382.8	393.4	395.0	395.8
32.5°	4073.6	3435.0	1485.2	339.1	303.5	310.8	333.5	367.5	387.7	390.9	390.9
35°	4372.2	3553.1	1199.5	295.4	283.3	285.7	303.5	342.4	378.0	386.9	387.7
37.5°	4699.2	3669.7	912.2	276.0	266.3	266.3	279.2	312.4	354.5	382.0	385.3
40°	5004.3	3740.1	639.4	260.6	250.9	250.9	262.2	286.5	326.2	367.5	376.4
42.5°	5286.0	3764.4	445.2	246.0	236.3	238.8	248.5	267.9	297.8	339.1	347.2
45°	5575.7	3760.3	324.6	229.1	221.8	229.1	236.3	250.9	272.8	296.2	297.8
47.5°	5794.3	3726.3	257.4	212.9	208.0	217.7	224.2	233.9	246.0	244.4	244.4
50°	5999.0	3643.8	207.2	191.0	194.2	205.6	208.8	212.1	212.9	197.5	195.9
52.5°	6154.4	3515.1	165.9	167.5	180.5	191.8	188.6	183.7	175.6	157.0	153.8
55°	6206.2	3267.4	130.3	138.4	160.3	174.8	162.7	152.2	136.8	121.4	118.2
57.5°	6112.4	2947.7	106.0	107.6	135.2	147.3	133.5	121.4	104.4	91.5	89.0
60°	5913.2	2592.4	87.4	80.9	104.4	114.9	106.0	93.9	78.5	68.8	68.0
62.5°	5518.3	2213.6	72.0	63.1	79.3	88.2	82.6	73.7	60.7	54.2	53.4
65°	4687.9	1770.9	58.3	51.0	61.5	68.8	63.9	57.5	47.8	42.9	42.1
67.5°	3272.3	1197.1	47.8	42.1	48.6	54.2	50.2	46.9	38.0	37.2	38.0
70°	1578.3	577.1	39.7	34.0	38.0	42.1	40.5	38.0	36.4	42.1	48.6
72.5°	452.4	193.4	31.6	28.3	30.8	33.2	34.8	34.0	39.7	51.0	59.1
73°	348.0	156.2	29.9	26.7	29.1	32.4	34.0	33.2	40.5	51.8	59.1
75°	148.9	75.3	22.7	21.9	24.3	28.3	29.9	29.9	40.5	52.6	56.7
77.5°	67.2	40.5	14.6	17.0	21.0	22.7	25.1	25.1	32.4	40.5	40.5
80°	38.0	21.9	11.3	12.9	15.4	15.4	15.4	13.8	14.6	16.2	17.8
82.5°	24.3	14.6	8.9	10.5	9.7	8.1	6.5	6.5	5.7	6.5	8.1
85°	13.8	8.1	8.1	6.5	4.0	3.2	4.0	3.2	0.8	0.0	0.8
87.5°	8.1	4.9	2.4	0.0	0.0	0.0	0.0	0.0	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)