

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: P322959

Luminaire Tested: **GAN-SA5B-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20702 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

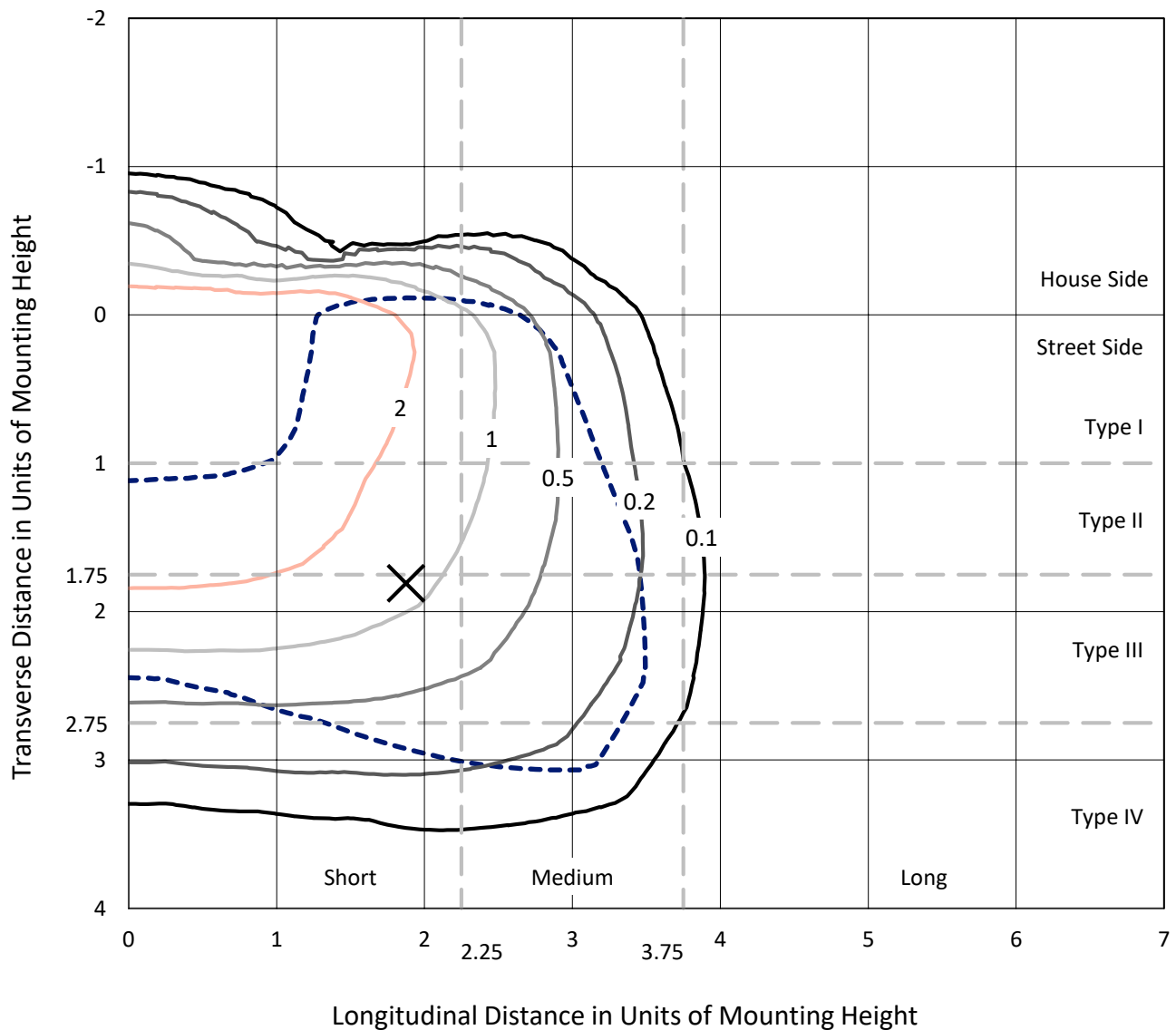
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

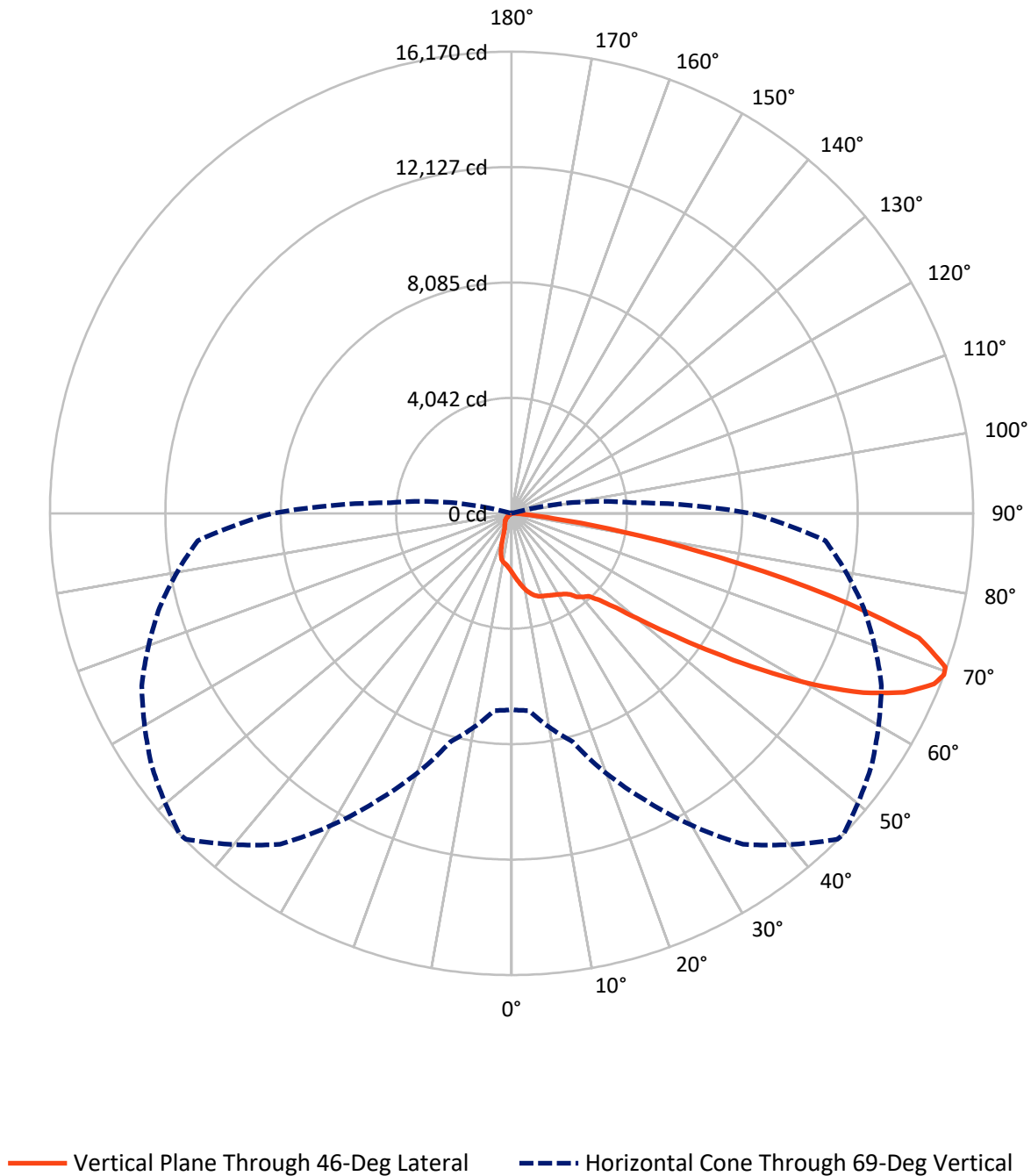
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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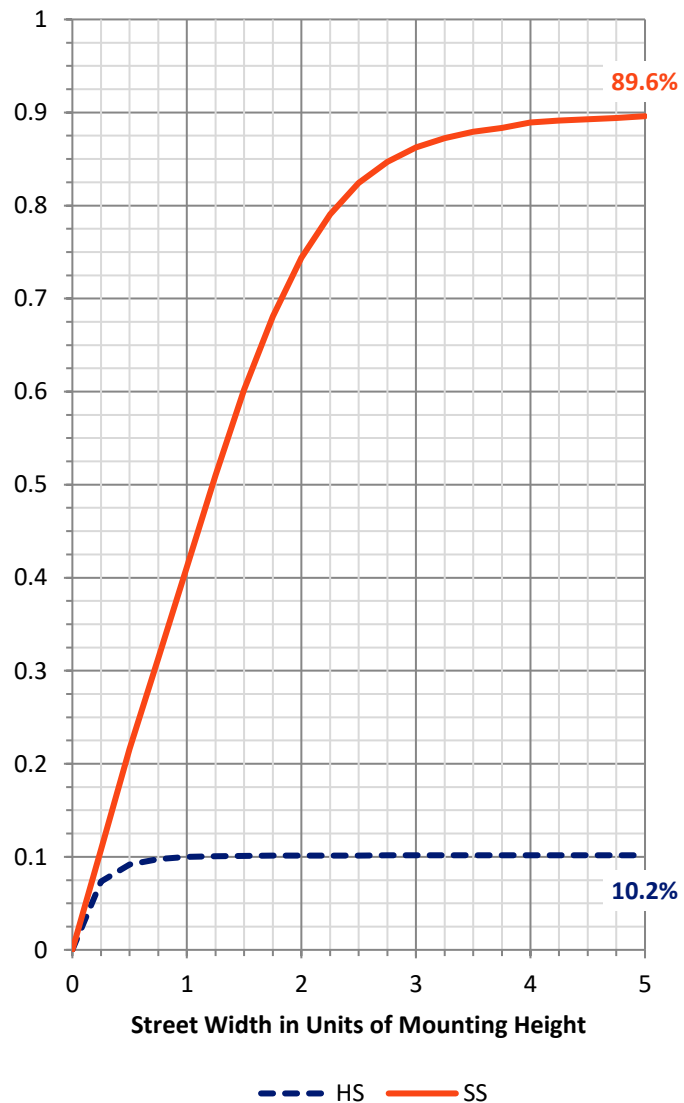
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2124.6	0.0	2124.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	18577.4	0.0	18577.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	20702.0	0.0	20702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.5	1.0
10°-20°	626.4	3.0
20°-30°	985.0	4.8
30°-40°	1412.6	6.8
40°-50°	2441.4	11.8
50°-60°	4823.3	23.3
60°-70°	6741.0	32.6
70°-80°	3256.6	15.7
80°-90°	209.3	1.0
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°	20702.0	100.0
0°-180°	20702.0	100.0

Coefficient of Utilization



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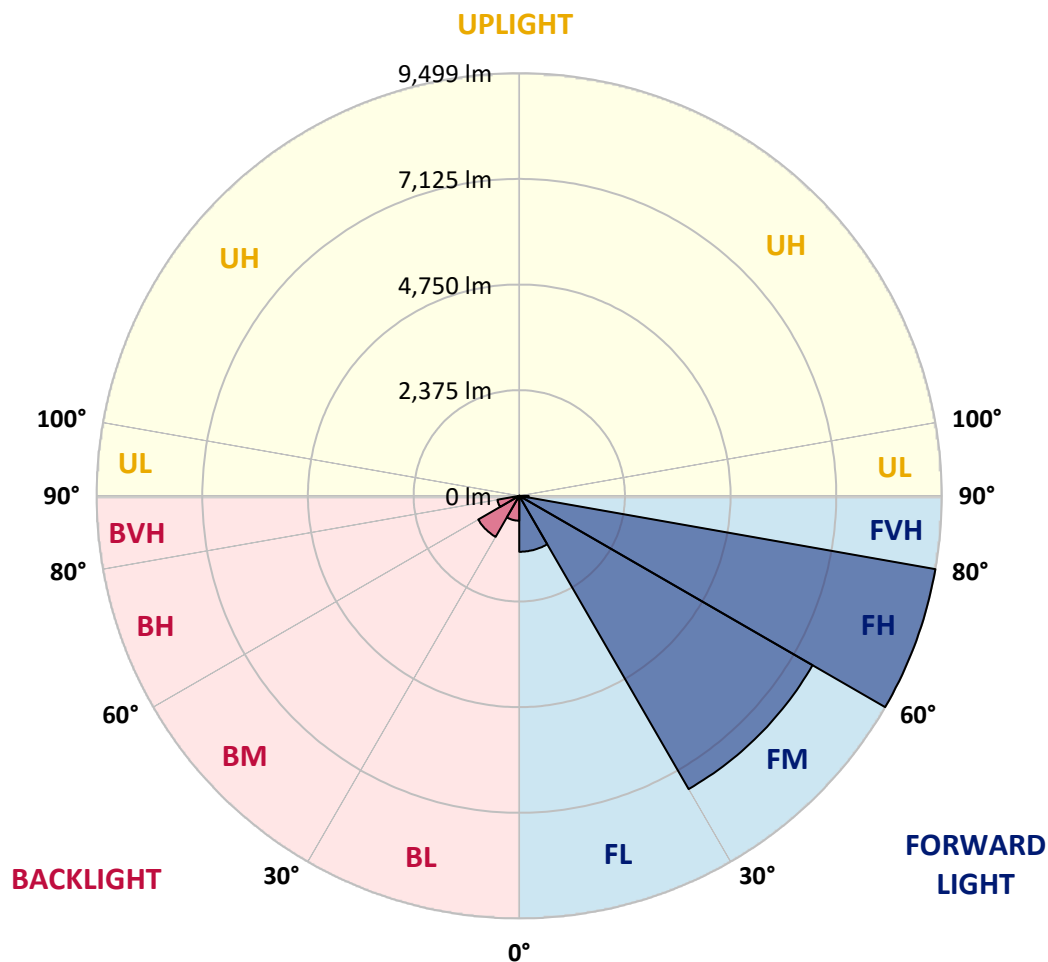
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1257.9	6.1			
FM	(30°-60°)	7612.6	36.8			
FH	(60°-80°)	9499.4	45.9			G4/12000
FVH	(80°-90°)	207.6	1.0			G2/225
BL	(0°-30°)	560.0	2.7	B2/1000		
BM	(30°-60°)	1064.7	5.1	B2/2500		
BH	(60°-80°)	498.2	2.4	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	35°	45°	46°	55°	65°	75°	85°
0°	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3
2.5°	2304.3	2301.4	2287.8	2282.0	2249.0	2229.6	2221.8	2197.5	2162.6	2127.6	2088.8
5°	2566.4	2565.4	2540.2	2515.9	2453.8	2395.5	2384.9	2328.6	2249.9	2176.2	2102.4
7.5°	2834.3	2821.7	2796.4	2749.8	2659.6	2566.4	2557.6	2478.1	2366.4	2259.7	2153.9
10°	3061.4	3053.6	3020.6	2949.8	2844.0	2738.2	2727.5	2629.5	2503.3	2372.3	2237.3
12.5°	3238.1	3232.2	3188.6	3100.2	2987.6	2878.0	2863.4	2776.0	2641.1	2494.6	2335.4
15°	3345.8	3342.9	3289.5	3195.4	3084.7	2989.6	2977.0	2900.3	2775.1	2621.7	2442.1
17.5°	3371.0	3372.0	3316.7	3221.6	3130.3	3062.4	3052.7	2994.4	2889.6	2737.2	2548.9
20°	3314.7	3326.4	3276.9	3194.4	3138.1	3102.2	3094.4	3059.5	2971.1	2827.5	2634.3
22.5°	3235.2	3241.0	3207.0	3151.7	3128.4	3135.2	3131.3	3111.9	3037.1	2905.1	2718.8
25°	3186.6	3186.6	3166.2	3119.6	3135.2	3176.9	3177.9	3174.0	3114.8	3000.3	2821.7
27.5°	3184.7	3178.9	3155.6	3120.6	3163.3	3227.4	3231.3	3257.5	3220.6	3115.8	2949.8
30°	3262.3	3255.5	3206.0	3160.4	3214.8	3283.7	3293.4	3350.7	3332.2	3241.0	3092.5
32.5°	3443.8	3419.6	3309.9	3235.2	3275.9	3358.4	3371.0	3462.3	3491.4	3395.3	3230.3
35°	3692.3	3615.6	3457.4	3376.9	3380.7	3467.1	3478.8	3612.7	3699.1	3537.0	3337.1
37.5°	4035.0	3997.1	3739.9	3524.4	3541.9	3672.9	3706.9	3852.5	3828.2	3614.7	3458.4
40°	4786.2	4727.0	4453.3	3937.9	3696.2	3839.9	3850.5	3928.2	3930.1	3790.4	3710.8
42.5°	5809.3	5785.0	5496.7	4688.2	4000.0	3951.5	3970.9	4101.9	4248.5	4161.1	4157.3
45°	6942.0	6929.4	6623.7	5684.1	4614.4	4317.4	4341.7	4517.4	4797.9	4817.3	4940.6
47.5°	7853.5	7847.6	7672.0	6795.5	5555.0	4937.7	4945.4	5131.8	5624.9	5868.5	6065.5
50°	8684.3	8712.5	8573.7	7998.1	6836.2	5909.3	5890.8	6015.1	6807.1	7206.0	7450.7
52.5°	9839.4	9879.2	9490.0	9120.2	8180.6	7114.8	7100.2	7230.3	8228.1	8527.1	8570.8
55°	10859.5	10791.6	10483.9	10377.1	9820.0	8603.8	8599.9	8714.4	9602.6	9729.7	9810.3
57.5°	11309.9	11283.7	11432.2	11676.8	11537.1	10363.5	10354.8	10267.5	10832.4	10846.0	11093.5
60°	11594.3	11626.4	12081.6	12835.8	13184.2	12257.3	12201.0	11668.1	12006.8	11976.8	12241.7
62.5°	11380.8	11443.9	12263.1	13520.1	14417.0	13910.3	13830.7	12951.3	13010.5	12906.6	13153.2
65°	10247.1	10345.1	11687.5	13391.0	15028.5	15202.2	15121.6	14084.0	13807.4	13636.6	13499.7
67.5°	8320.3	8378.6	9780.2	12268.0	14752.8	15972.9	15956.4	15077.0	14409.2	13513.3	12451.4
69°	6876.0	6933.3	8282.5	11085.7	14146.1	16137.9	16169.9	15395.4	14294.7	12763.9	11032.3
70°	5823.9	5885.0	7142.0	10072.4	13442.4	16061.2	16118.5	15365.3	13966.6	11896.2	9787.0
72.5°	3054.6	3107.0	4397.0	6939.1	10958.6	14747.9	14921.7	14066.6	11838.9	8639.7	5787.0
75°	960.0	990.1	1717.1	3627.3	7503.1	11467.2	11507.0	11034.3	8406.7	4752.3	2410.1
77.5°	365.9	357.2	571.7	1336.6	3793.3	7220.6	7464.2	6895.4	4411.6	1680.2	556.2
80°	197.0	198.0	297.0	553.3	1622.9	3710.8	3916.5	3341.9	1567.6	524.1	128.1
82.5°	85.4	89.3	167.0	293.1	745.5	1368.6	1471.5	1225.0	598.9	352.3	47.6
85°	18.4	20.4	80.6	159.2	303.8	384.4	402.8	397.0	381.5	273.7	18.4
87.5°	0.0	0.0	35.9	57.3	76.7	87.4	76.7	100.0	210.6	184.4	9.7
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°	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3	2074.3
2.5°	2076.2	2058.7	2028.6	1995.6	1972.3	1948.1	1928.7	1919.9	1910.2	1903.4	1912.2
5°	2072.3	2038.3	1980.1	1923.8	1883.0	1850.0	1822.9	1812.2	1801.5	1793.7	1792.8
7.5°	2106.3	2058.7	1969.4	1886.9	1823.8	1779.2	1742.3	1726.8	1714.2	1708.3	1703.5
10°	2171.3	2110.2	1990.8	1883.0	1801.5	1725.8	1646.2	1585.1	1545.3	1526.8	1520.0
12.5°	2255.8	2179.1	2031.6	1903.4	1785.0	1639.4	1470.5	1324.9	1230.8	1199.7	1181.3
15°	2354.8	2259.7	2084.9	1929.6	1724.8	1458.9	1172.5	982.3	894.9	877.5	858.0
17.5°	2449.9	2345.1	2149.0	1934.5	1592.8	1165.7	859.0	729.9	696.0	707.6	710.5
20°	2533.4	2429.5	2212.1	1891.8	1353.1	874.5	664.9	632.9	645.5	667.8	671.7
22.5°	2617.8	2511.1	2270.3	1779.2	1046.4	663.9	598.9	606.7	619.3	641.6	645.5
25°	2720.7	2610.1	2324.7	1572.4	785.2	564.9	568.8	580.4	593.1	613.4	615.4
27.5°	2839.1	2735.3	2360.6	1303.6	582.4	519.3	531.9	549.4	562.0	581.4	585.3
30°	2996.4	2900.3	2372.3	1025.0	488.2	478.5	484.4	505.7	524.1	541.6	544.5
32.5°	3143.9	3063.3	2333.4	773.6	452.3	440.7	440.7	453.3	474.6	491.1	495.0
35°	3279.8	3227.4	2209.2	565.9	425.1	405.7	396.0	396.0	409.6	423.2	427.1
37.5°	3459.4	3457.4	2008.3	451.3	398.9	376.6	356.2	340.7	335.8	338.8	340.7
40°	3767.1	3770.0	1746.2	404.8	376.6	346.5	315.5	287.3	261.1	252.4	251.4
42.5°	4247.5	4203.9	1471.5	382.4	357.2	315.5	268.9	231.0	190.2	177.6	176.7
45°	5010.5	4751.3	1180.3	362.0	336.8	280.5	222.3	170.8	137.8	128.1	128.1
47.5°	6121.8	5470.5	914.3	339.7	309.6	240.7	167.9	123.3	100.9	96.1	97.1
50°	7271.1	6175.2	700.8	311.6	276.6	199.0	124.2	89.3	76.7	76.7	77.7
52.5°	8290.3	6691.6	546.5	281.5	235.9	156.3	94.2	69.9	64.1	63.1	64.1
55°	9244.4	7024.5	418.3	246.5	187.3	116.5	71.8	57.3	53.4	51.4	50.5
57.5°	10164.6	7189.5	313.5	199.0	135.9	84.4	57.3	48.5	44.6	41.7	40.8
60°	10777.0	7055.6	215.5	146.6	94.2	61.2	47.6	41.7	36.9	34.0	33.0
62.5°	11122.6	6689.7	138.8	105.8	67.0	45.6	37.9	34.9	28.1	25.2	25.2
65°	10982.8	6085.9	97.1	75.7	48.5	34.0	28.1	28.1	20.4	16.5	15.5
67.5°	9732.6	5141.5	73.8	56.3	34.9	25.2	21.4	24.3	12.6	7.8	7.8
69°	8373.7	4261.1	63.1	46.6	29.1	20.4	18.4	22.3	8.7	5.8	4.9
70°	7277.9	3675.8	57.3	40.8	24.3	17.5	16.5	21.4	8.7	4.9	3.9
72.5°	4354.3	2050.0	43.7	29.1	15.5	13.6	13.6	24.3	8.7	4.9	3.9
75°	1759.8	722.2	32.0	20.4	11.6	11.6	16.5	31.1	7.8	3.9	2.9
77.5°	398.9	158.2	18.4	12.6	7.8	11.6	19.4	24.3	4.9	1.9	0.0
80°	97.1	38.8	11.6	7.8	4.9	8.7	14.6	13.6	1.0	0.0	0.0
82.5°	32.0	13.6	4.9	3.9	1.0	2.9	6.8	3.9	0.0	0.0	0.0
85°	13.6	7.8	1.9	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0
87.5°	8.7	2.9	0.0	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)