

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: P322968

Luminaire Tested: **GAN-SA4C-760-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322968
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-SA4C-760-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA 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: 20679 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

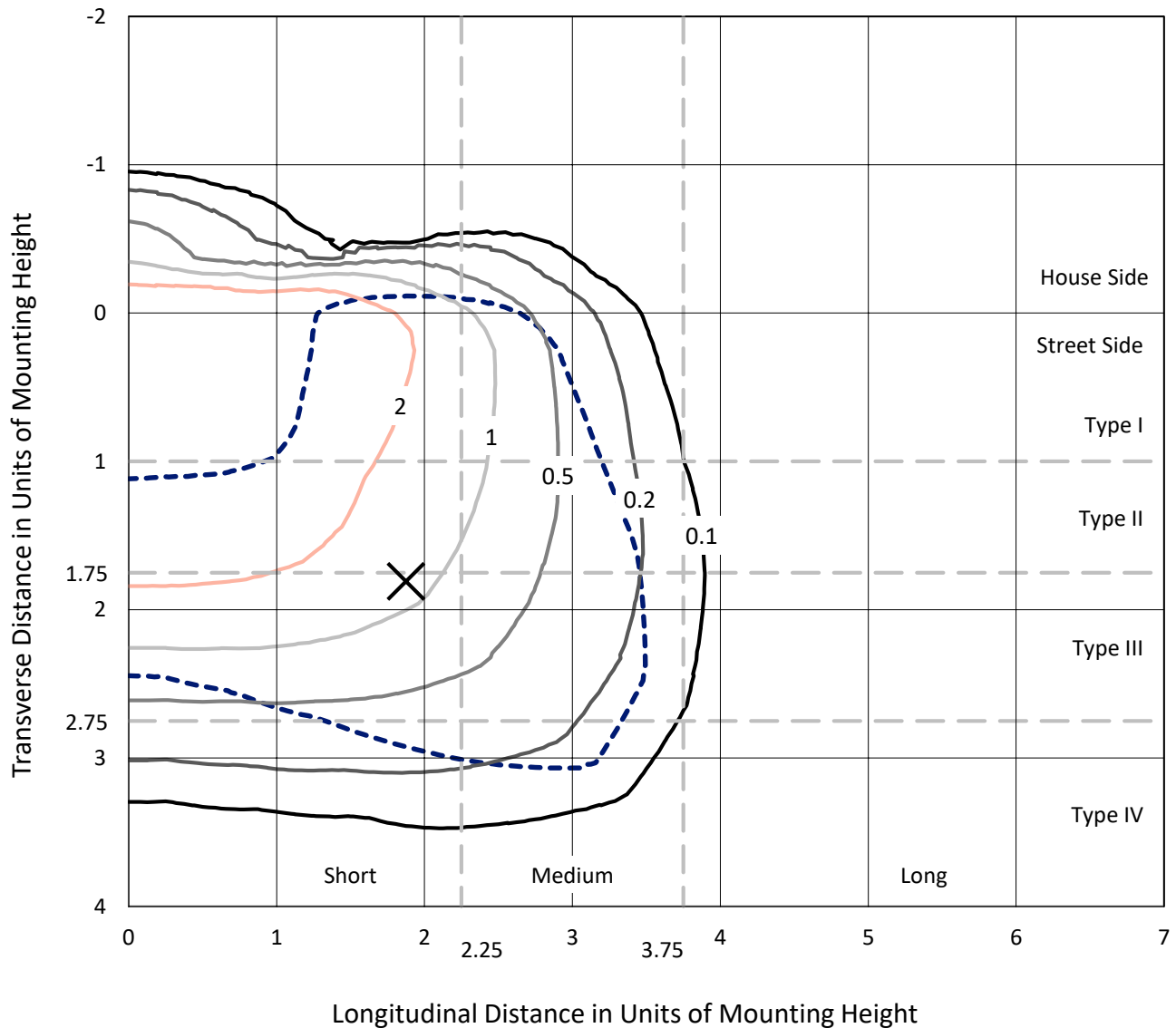
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

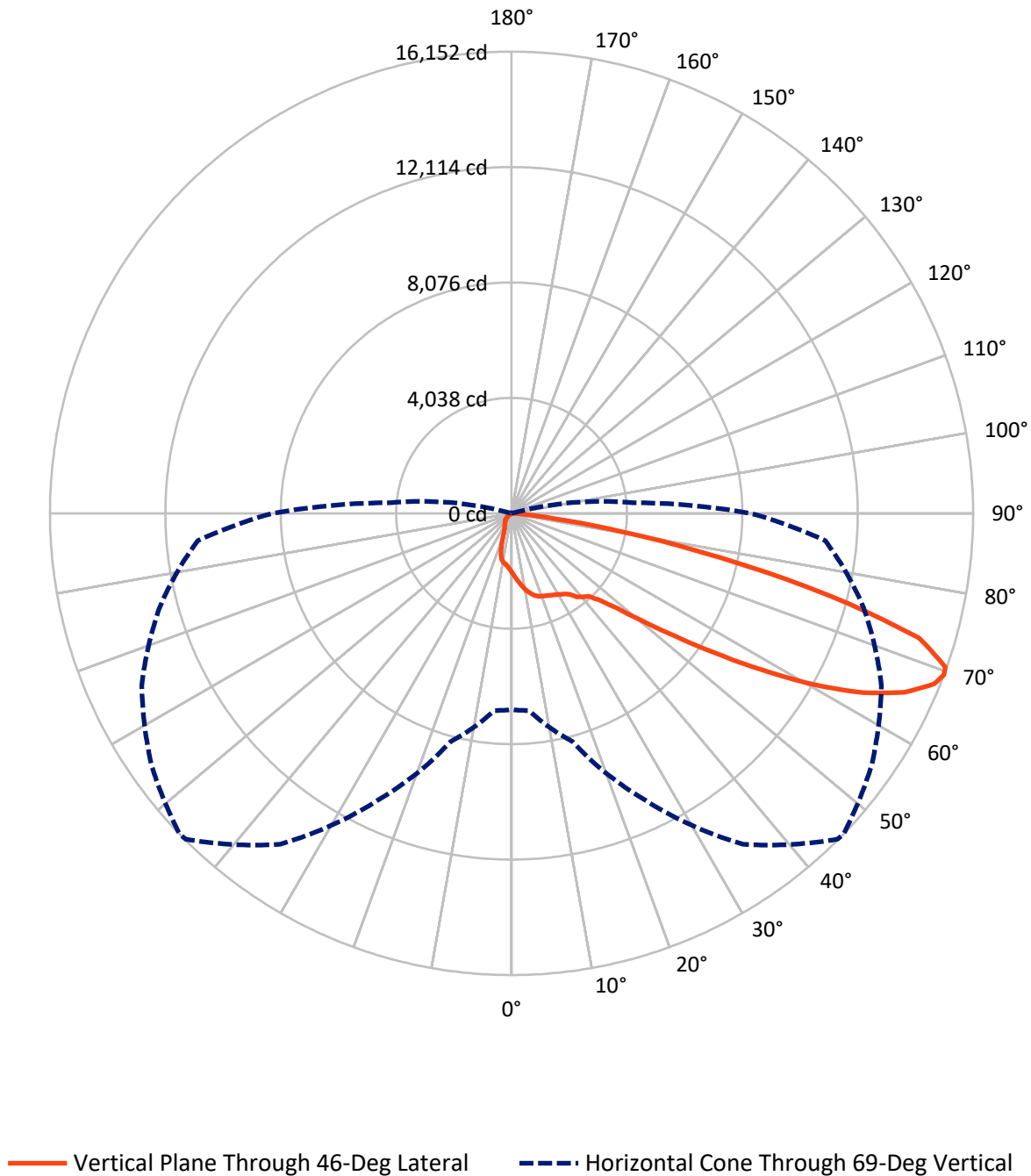
× Max cd
- - - 1/2 Max cd



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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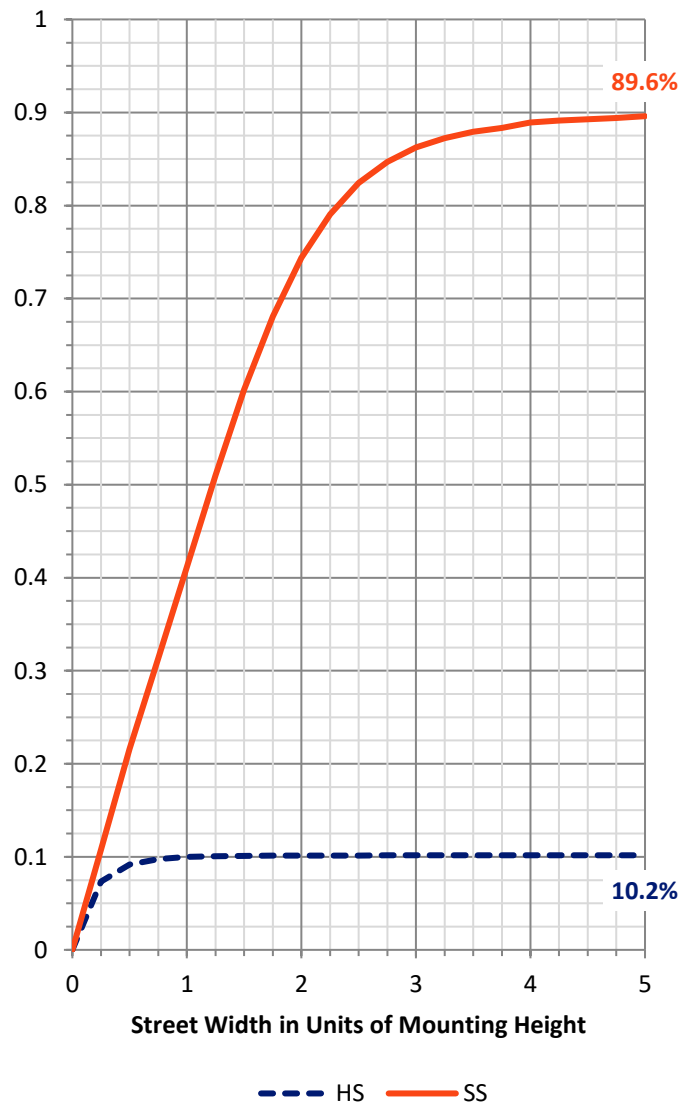
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.2	0.0	2122.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	18556.8	0.0	18556.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	20679.0	0.0	20679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.2	1.0
10°-20°	625.7	3.0
20°-30°	984.0	4.8
30°-40°	1411.0	6.8
40°-50°	2438.7	11.8
50°-60°	4817.9	23.3
60°-70°	6733.5	32.6
70°-80°	3253.0	15.7
80°-90°	209.1	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°	20679.0	100.0
0°-180°	20679.0	100.0

Coefficient of Utilization



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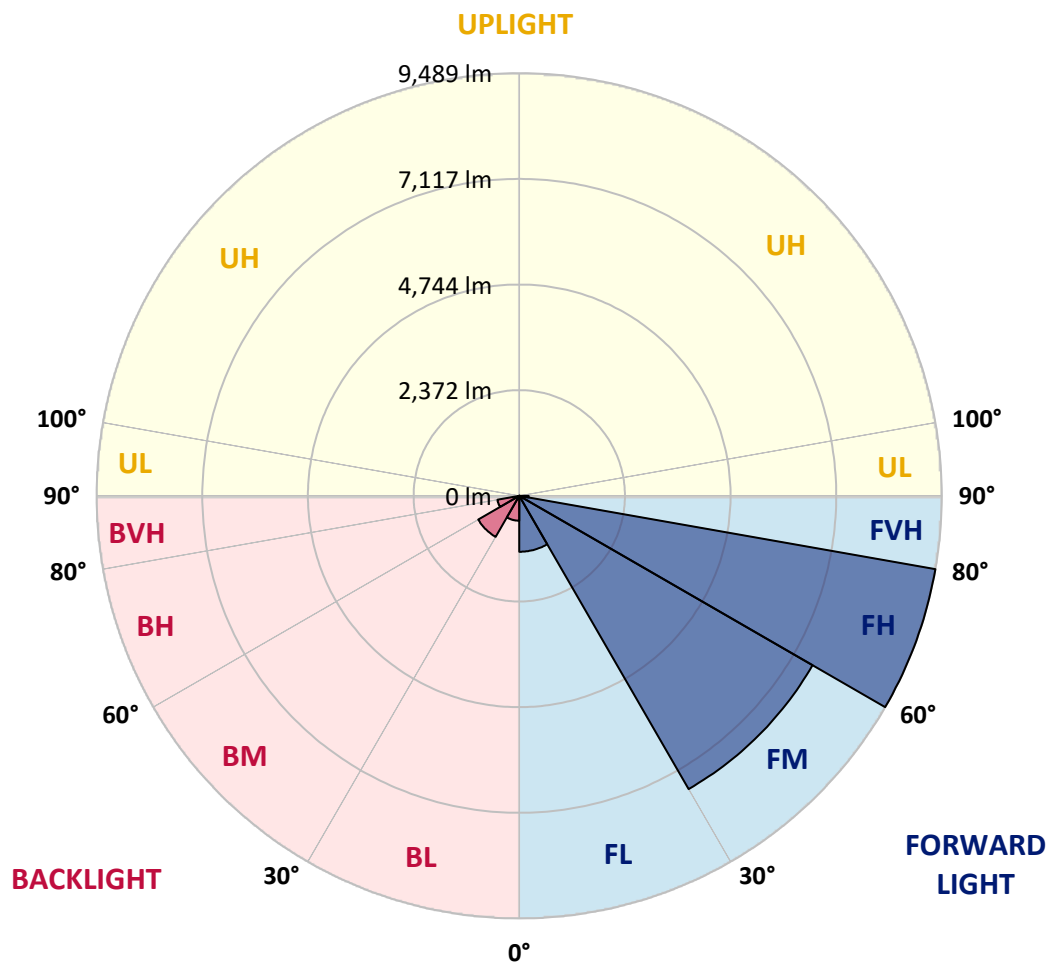
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1256.5	6.1			
FM	(30°-60°)	7604.1	36.8			
FH	(60°-80°)	9488.8	45.9			G4/12000
FVH	(80°-90°)	207.3	1.0			G2/225
BL	(0°-30°)	559.3	2.7	B2/1000		
BM	(30°-60°)	1063.5	5.1	B2/2500		
BH	(60°-80°)	497.6	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°	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0
2.5°	2301.7	2298.8	2285.3	2279.4	2246.5	2227.1	2219.3	2195.1	2160.2	2125.3	2086.5
5°	2563.5	2562.6	2537.3	2513.1	2451.1	2392.9	2382.2	2326.0	2247.4	2173.8	2100.1
7.5°	2831.1	2818.5	2793.3	2746.8	2656.6	2563.5	2554.8	2475.3	2363.8	2257.1	2151.5
10°	3058.0	3050.2	3017.3	2946.5	2840.8	2735.1	2724.5	2626.5	2500.5	2369.6	2234.8
12.5°	3234.5	3228.6	3185.0	3096.8	2984.3	2874.8	2860.2	2773.0	2638.2	2491.8	2332.8
15°	3342.1	3339.2	3285.9	3191.8	3081.3	2986.3	2973.7	2897.1	2772.0	2618.8	2439.4
17.5°	3367.3	3368.3	3313.0	3218.0	3126.8	3059.0	3049.3	2991.1	2886.4	2734.2	2546.1
20°	3311.1	3322.7	3273.2	3190.8	3134.6	3098.7	3091.0	3056.1	2967.8	2824.3	2631.4
22.5°	3231.6	3237.4	3203.4	3148.2	3124.9	3131.7	3127.8	3108.4	3033.8	2901.9	2715.7
25°	3183.1	3183.1	3162.7	3116.2	3131.7	3173.4	3174.4	3170.5	3111.3	2996.9	2818.5
27.5°	3181.1	3175.3	3152.1	3117.1	3159.8	3223.8	3227.7	3253.9	3217.0	3112.3	2946.5
30°	3258.7	3251.9	3202.5	3156.9	3211.2	3280.0	3289.7	3346.9	3328.5	3237.4	3089.0
32.5°	3440.0	3415.8	3306.2	3231.6	3272.3	3354.7	3367.3	3458.4	3487.5	3391.5	3226.7
35°	3688.2	3611.6	3453.6	3373.1	3377.0	3463.3	3474.9	3608.7	3695.0	3533.1	3333.4
37.5°	4030.5	3992.7	3735.7	3520.5	3537.9	3668.8	3702.8	3848.2	3824.0	3610.7	3454.6
40°	4780.9	4721.8	4448.4	3933.5	3692.1	3835.6	3846.3	3923.8	3925.8	3786.1	3706.6
42.5°	5802.8	5778.6	5490.6	4683.0	3995.6	3947.1	3966.5	4097.4	4243.8	4156.5	4152.6
45°	6934.3	6921.7	6616.3	5677.8	4609.3	4312.6	4336.9	4512.4	4792.6	4811.9	4935.1
47.5°	7844.7	7838.9	7663.4	6787.9	5548.8	4932.2	4939.9	5126.1	5618.6	5862.0	6058.8
50°	8674.7	8702.8	8564.2	7989.2	6828.6	5902.7	5884.3	6008.4	6799.6	7198.0	7442.4
52.5°	9828.5	9868.2	9479.4	9110.0	8171.5	7106.9	7092.4	7222.3	8219.0	8517.6	8561.3
55°	10847.5	10779.6	10472.3	10365.6	9809.1	8594.2	8590.3	8704.7	9591.9	9718.9	9799.4
57.5°	11297.4	11271.2	11419.5	11663.9	11524.2	10352.0	10343.3	10256.0	10820.3	10833.9	11081.1
60°	11581.4	11613.4	12068.2	12821.5	13169.6	12243.7	12187.4	11655.1	11993.5	11963.5	12228.1
62.5°	11368.1	11431.2	12249.5	13505.1	14400.9	13894.8	13815.3	12936.9	12996.0	12892.3	13138.6
65°	10235.7	10333.6	11674.5	13376.1	15011.8	15185.3	15104.8	14068.4	13792.0	13621.4	13484.7
67.5°	8311.1	8369.3	9769.3	12254.3	14736.4	15955.1	15938.7	15060.2	14393.2	13498.3	12437.6
69°	6868.4	6925.6	8273.3	11073.4	14130.4	16120.0	16152.0	15378.3	14278.8	12749.8	11020.1
70°	5817.4	5878.5	7134.1	10061.2	13427.5	16043.4	16100.6	15348.2	13951.1	11883.0	9776.1
72.5°	3051.2	3103.6	4392.1	6931.4	10946.4	14731.6	14905.1	14050.9	11825.8	8630.1	5780.5
75°	958.9	989.0	1715.2	3623.3	7494.7	11454.4	11494.2	11022.0	8397.4	4747.0	2407.4
77.5°	365.5	356.8	571.1	1335.1	3789.1	7212.6	7455.9	6887.8	4406.7	1678.3	555.6
80°	196.8	197.8	296.7	552.7	1621.1	3706.6	3912.2	3338.2	1565.8	523.6	128.0
82.5°	85.3	89.2	166.8	292.8	744.6	1367.1	1469.9	1223.6	598.2	352.0	47.5
85°	18.4	20.4	80.5	159.0	303.5	383.9	402.4	396.6	381.0	273.4	18.4
87.5°	0.0	0.0	35.9	57.2	76.6	87.3	76.6	99.9	210.4	184.2	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°	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0	2072.0
2.5°	2073.9	2056.4	2026.4	1993.4	1970.2	1945.9	1926.5	1917.8	1908.1	1901.3	1910.0
5°	2070.0	2036.1	1977.9	1921.7	1881.0	1848.0	1820.8	1810.2	1799.5	1791.8	1790.8
7.5°	2104.0	2056.4	1967.2	1884.8	1821.8	1777.2	1740.4	1724.9	1712.3	1706.4	1701.6
10°	2168.9	2107.8	1988.6	1881.0	1799.5	1723.9	1644.4	1583.3	1543.5	1525.1	1518.3
12.5°	2253.3	2176.7	2029.3	1901.3	1783.0	1637.6	1468.9	1323.5	1229.4	1198.4	1180.0
15°	2352.2	2257.1	2082.6	1927.5	1722.9	1457.3	1171.2	981.2	893.9	876.5	857.1
17.5°	2447.2	2342.5	2146.6	1932.3	1591.1	1164.4	858.1	729.1	695.2	706.8	709.7
20°	2530.6	2426.8	2209.6	1889.7	1351.6	873.6	664.2	632.2	644.8	667.1	670.9
22.5°	2614.9	2508.3	2267.8	1777.2	1045.2	663.2	598.2	606.0	618.6	640.9	644.8
25°	2717.7	2607.2	2322.1	1570.7	784.4	564.3	568.2	579.8	592.4	612.8	614.7
27.5°	2836.0	2732.2	2358.0	1302.1	581.7	518.7	531.3	548.8	561.4	580.8	584.6
30°	2993.0	2897.1	2369.6	1023.9	487.7	478.0	483.8	505.1	523.6	541.0	543.9
32.5°	3140.4	3059.9	2330.8	772.7	451.8	440.2	440.2	452.8	474.1	490.6	494.5
35°	3276.2	3223.8	2206.7	565.3	424.7	405.3	395.6	395.6	409.2	422.7	426.6
37.5°	3455.5	3453.6	2006.0	450.8	398.5	376.2	355.8	340.3	335.5	338.4	340.3
40°	3762.9	3765.8	1744.2	404.3	376.2	346.1	315.1	287.0	260.8	252.1	251.1
42.5°	4242.8	4199.2	1469.9	382.0	356.8	315.1	268.6	230.8	190.0	177.4	176.5
45°	5004.9	4746.0	1179.0	361.6	336.4	280.2	222.0	170.6	137.7	128.0	128.0
47.5°	6115.0	5464.5	913.3	339.3	309.3	240.5	167.7	123.1	100.8	96.0	97.0
50°	7263.0	6168.4	700.0	311.2	276.3	198.8	124.1	89.2	76.6	76.6	77.6
52.5°	8281.0	6684.2	545.9	281.2	235.6	156.1	94.0	69.8	64.0	63.0	64.0
55°	9234.1	7016.7	417.9	246.3	187.1	116.3	71.7	57.2	53.3	51.4	50.4
57.5°	10153.3	7181.6	313.2	198.8	135.7	84.4	57.2	48.5	44.6	41.7	40.7
60°	10765.1	7047.8	215.2	146.4	94.0	61.1	47.5	41.7	36.8	33.9	33.0
62.5°	11110.2	6682.2	138.6	105.7	66.9	45.6	37.8	34.9	28.1	25.2	25.2
65°	10970.6	6079.2	97.0	75.6	48.5	33.9	28.1	28.1	20.4	16.5	15.5
67.5°	9721.8	5135.8	73.7	56.2	34.9	25.2	21.3	24.2	12.6	7.8	7.8
69°	8364.4	4256.4	63.0	46.5	29.1	20.4	18.4	22.3	8.7	5.8	4.8
70°	7269.8	3671.7	57.2	40.7	24.2	17.5	16.5	21.3	8.7	4.8	3.9
72.5°	4349.5	2047.7	43.6	29.1	15.5	13.6	13.6	24.2	8.7	4.8	3.9
75°	1757.8	721.4	32.0	20.4	11.6	11.6	16.5	31.0	7.8	3.9	2.9
77.5°	398.5	158.0	18.4	12.6	7.8	11.6	19.4	24.2	4.8	1.9	0.0
80°	97.0	38.8	11.6	7.8	4.8	8.7	14.5	13.6	1.0	0.0	0.0
82.5°	32.0	13.6	4.8	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)