

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: P323000

Luminaire Tested: **GAN-SA6B-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323000
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-SA6B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 18210 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

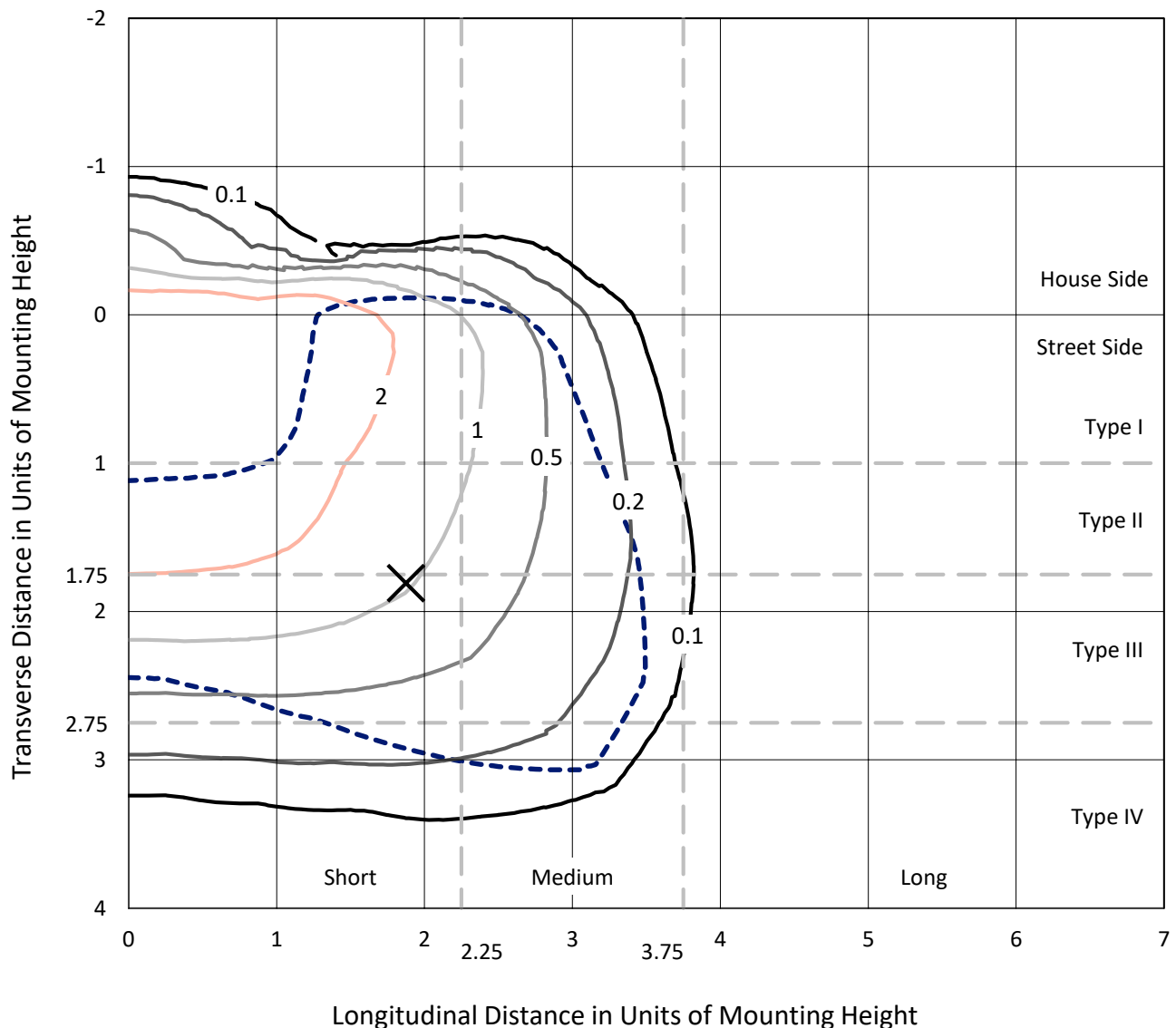
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

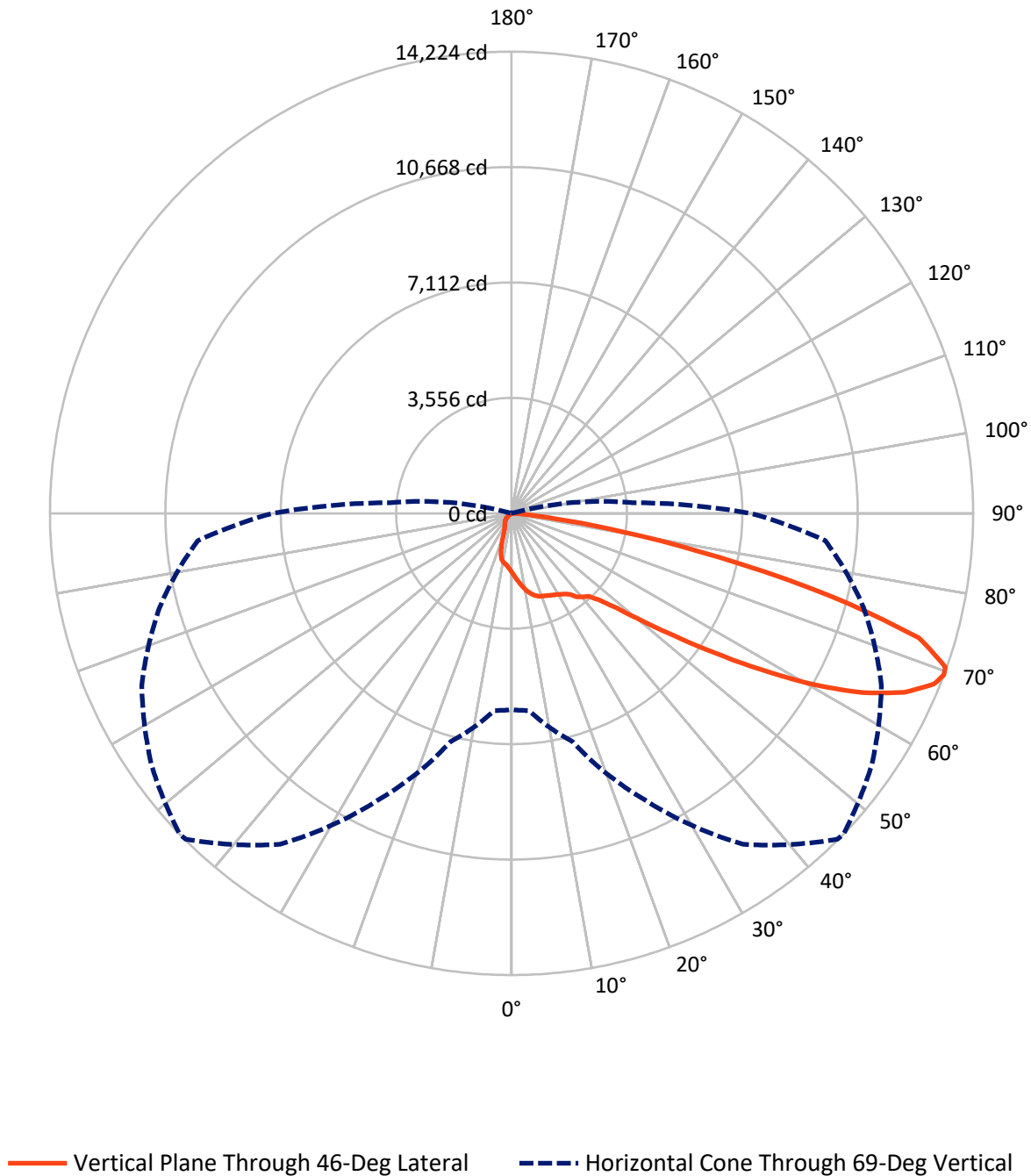
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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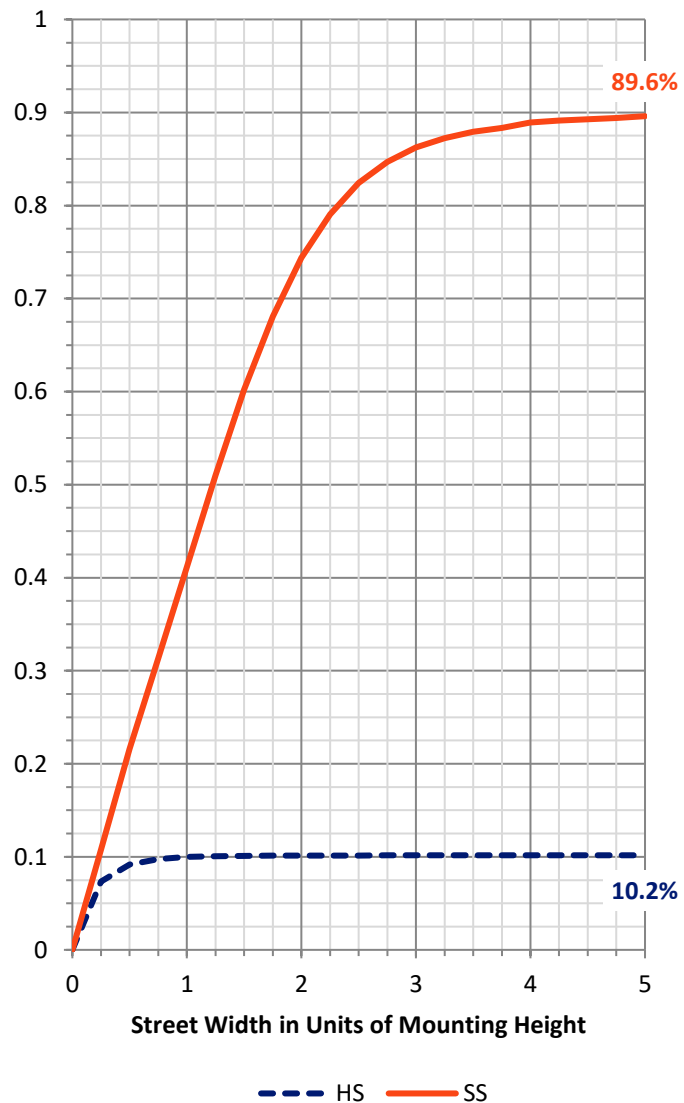
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1868.8	0.0	1868.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16341.2	0.0	16341.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	18210.0	0.0	18210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	1.0
10°-20°	551.0	3.0
20°-30°	866.5	4.8
30°-40°	1242.5	6.8
40°-50°	2147.5	11.8
50°-60°	4242.7	23.3
60°-70°	5929.5	32.6
70°-80°	2864.6	15.7
80°-90°	184.1	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°	18210.0	100.0
0°-180°	18210.0	100.0

Coefficient of Utilization



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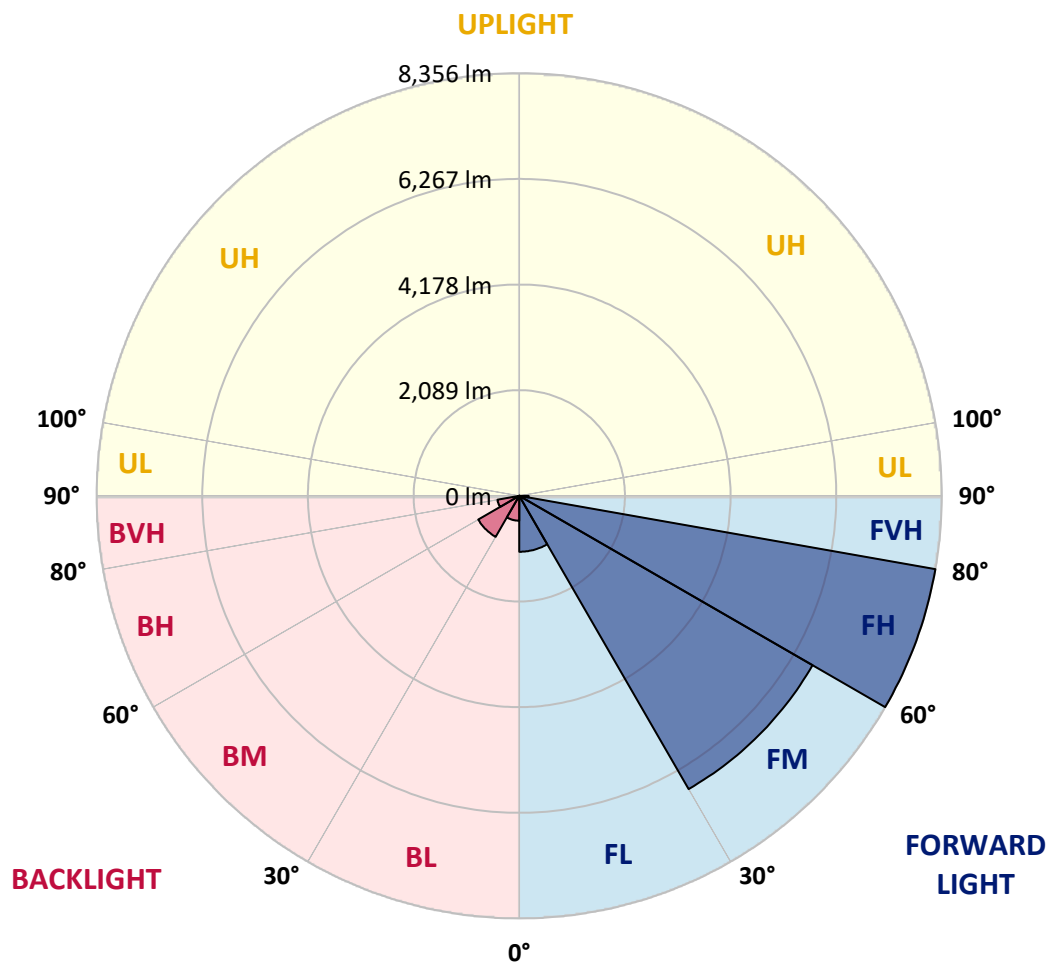
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1106.5	6.1			
FM	(30°-60°)	6696.2	36.8			
FH	(60°-80°)	8355.9	45.9			G4/12000
FVH	(80°-90°)	182.6	1.0			G2/225
BL	(0°-30°)	492.6	2.7	B1/500		
BM	(30°-60°)	936.5	5.1	B1/1000		
BH	(60°-80°)	438.2	2.4	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			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°	45°	46°	55°	65°	75°	85°
0°	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6
2.5°	2026.9	2024.4	2012.4	2007.3	1978.3	1961.2	1954.4	1933.0	1902.3	1871.5	1837.4
5°	2257.5	2256.6	2234.4	2213.1	2158.4	2107.2	2097.8	2048.3	1979.1	1914.2	1849.3
7.5°	2493.1	2482.0	2459.8	2418.8	2339.4	2257.5	2249.8	2179.8	2081.6	1987.7	1894.6
10°	2692.9	2686.1	2657.0	2594.7	2501.6	2408.6	2399.2	2312.9	2202.0	2086.7	1968.0
12.5°	2848.3	2843.2	2804.7	2727.0	2628.0	2531.5	2518.7	2441.9	2323.2	2194.3	2054.2
15°	2943.1	2940.5	2893.5	2810.7	2713.4	2629.7	2618.6	2551.2	2441.0	2306.1	2148.2
17.5°	2965.3	2966.1	2917.4	2833.8	2753.5	2693.7	2685.2	2634.0	2541.8	2407.7	2242.1
20°	2915.7	2926.0	2882.4	2809.9	2760.3	2728.7	2721.9	2691.2	2613.5	2487.1	2317.2
22.5°	2845.7	2850.8	2821.0	2772.3	2751.8	2757.8	2754.4	2737.3	2671.5	2555.4	2391.5
25°	2803.0	2803.0	2785.1	2744.1	2757.8	2794.5	2795.3	2791.9	2739.8	2639.1	2482.0
27.5°	2801.3	2796.2	2775.7	2745.0	2782.5	2838.9	2842.3	2865.4	2832.9	2740.7	2594.7
30°	2869.6	2863.7	2820.1	2780.0	2827.8	2888.4	2896.9	2947.3	2931.1	2850.8	2720.2
32.5°	3029.3	3007.9	2911.5	2845.7	2881.6	2954.2	2965.3	3045.5	3071.1	2986.6	2841.5
35°	3247.9	3180.4	3041.2	2970.4	2973.8	3049.8	3060.0	3177.8	3253.8	3111.3	2935.4
37.5°	3549.3	3516.0	3289.7	3100.2	3115.5	3230.8	3260.7	3388.7	3367.4	3179.6	3042.1
40°	4210.1	4158.0	3917.2	3463.9	3251.3	3377.6	3387.0	3455.3	3457.0	3334.1	3264.1
42.5°	5110.0	5088.7	4835.1	4123.9	3518.5	3475.8	3492.9	3608.2	3737.1	3660.2	3656.8
45°	6106.4	6095.3	5826.3	4999.9	4059.0	3797.7	3819.1	3973.6	4220.3	4237.4	4345.8
47.5°	6908.1	6903.0	6748.4	5977.5	4886.3	4343.3	4350.1	4514.0	4947.8	5162.1	5335.4
50°	7639.0	7663.7	7541.6	7035.3	6013.3	5197.9	5181.7	5291.0	5987.7	6338.6	6553.8
52.5°	8655.0	8690.0	8347.6	8022.3	7195.8	6258.4	6245.6	6360.0	7237.7	7500.6	7539.1
55°	9552.3	9492.6	9221.9	9128.0	8637.9	7568.1	7564.7	7665.4	8446.7	8558.5	8629.4
57.5°	9948.5	9925.4	10056.1	10271.2	10148.3	9116.0	9108.4	9031.5	9528.4	9540.4	9758.1
60°	10198.7	10226.8	10627.3	11290.7	11597.2	10781.8	10732.3	10263.5	10561.5	10535.1	10768.1
62.5°	10010.8	10066.3	10786.9	11892.6	12681.5	12235.8	12165.8	11392.3	11444.4	11353.0	11569.9
65°	9013.6	9099.8	10280.6	11779.0	13219.4	13372.2	13301.4	12388.7	12145.3	11995.1	11874.7
67.5°	7318.8	7370.0	8602.9	10791.2	12976.9	14050.2	14035.6	13262.1	12674.7	11886.6	10952.6
69°	6048.3	6098.7	7285.5	9751.3	12443.3	14195.3	14223.5	13542.1	12573.9	11227.5	9704.3
70°	5122.8	5176.6	6282.3	8859.9	11824.3	14127.9	14178.2	13515.7	12285.4	10464.2	8608.9
72.5°	2686.9	2733.0	3867.7	6103.8	9639.4	12972.7	13125.5	12373.3	10413.8	7599.7	5090.4
75°	844.4	870.9	1510.4	3190.7	6599.9	10086.8	10121.8	9706.0	7394.8	4180.2	2120.0
77.5°	321.9	314.2	502.9	1175.7	3336.7	6351.4	6565.7	6065.4	3880.5	1477.9	489.2
80°	173.3	174.2	261.3	486.7	1427.6	3264.1	3445.1	2939.6	1378.9	461.1	112.7
82.5°	75.1	78.5	146.9	257.8	655.7	1203.9	1294.4	1077.5	526.8	309.9	41.8
85°	16.2	17.9	70.9	140.0	267.2	338.1	354.3	349.2	335.5	240.8	16.2
87.5°	0.0	0.0	31.6	50.4	67.5	76.8	67.5	87.9	185.3	162.2	8.5
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°	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6	1824.6
2.5°	1826.3	1810.9	1784.4	1755.4	1734.9	1713.6	1696.5	1688.8	1680.3	1674.3	1682.0
5°	1822.9	1793.0	1741.8	1692.2	1656.4	1627.3	1603.4	1594.0	1584.7	1577.8	1577.0
7.5°	1852.7	1810.9	1732.4	1659.8	1604.3	1565.0	1532.6	1518.9	1507.8	1502.7	1498.4
10°	1910.0	1856.2	1751.1	1656.4	1584.7	1518.1	1448.0	1394.3	1359.3	1343.0	1337.1
12.5°	1984.2	1916.8	1787.0	1674.3	1570.1	1442.1	1293.5	1165.4	1082.6	1055.3	1039.1
15°	2071.3	1987.7	1834.0	1697.4	1517.2	1283.3	1031.4	864.0	787.2	771.8	754.8
17.5°	2155.0	2062.8	1890.3	1701.6	1401.1	1025.4	755.6	642.1	612.2	622.4	625.0
20°	2228.4	2137.1	1945.8	1664.1	1190.2	769.3	584.9	556.7	567.8	587.4	590.8
22.5°	2302.7	2208.8	1997.0	1565.0	920.4	584.0	526.8	533.6	544.7	564.4	567.8
25°	2393.2	2295.9	2044.9	1383.2	690.7	496.9	500.3	510.6	521.7	539.6	541.3
27.5°	2497.4	2406.0	2076.4	1146.7	512.3	456.8	467.9	483.3	494.4	511.4	514.8
30°	2635.7	2551.2	2086.7	901.6	429.5	420.9	426.0	444.8	461.1	476.4	479.0
32.5°	2765.5	2694.6	2052.5	680.5	397.9	387.6	387.6	398.7	417.5	432.0	435.4
35°	2885.0	2838.9	1943.3	497.8	374.0	356.9	348.4	348.4	360.3	372.3	375.7
37.5°	3042.9	3041.2	1766.5	397.0	350.9	331.3	313.3	299.7	295.4	298.0	299.7
40°	3313.6	3316.2	1536.0	356.0	331.3	304.8	277.5	252.7	229.7	222.0	221.1
42.5°	3736.2	3697.8	1294.4	336.4	314.2	277.5	236.5	203.2	167.3	156.2	155.4
45°	4407.3	4179.4	1038.2	318.5	296.3	246.7	195.5	150.3	121.2	112.7	112.7
47.5°	5384.9	4812.0	804.3	298.8	272.4	211.7	147.7	108.4	88.8	84.5	85.4
50°	6395.8	5431.9	616.4	274.1	243.3	175.0	109.3	78.5	67.5	67.5	68.3
52.5°	7292.3	5886.1	480.7	247.6	207.5	137.5	82.8	61.5	56.4	55.5	56.4
55°	8131.6	6179.0	368.0	216.9	164.8	102.5	63.2	50.4	47.0	45.3	44.4
57.5°	8941.0	6324.1	275.8	175.0	119.5	74.3	50.4	42.7	39.3	36.7	35.9
60°	9479.8	6206.3	189.5	128.9	82.8	53.8	41.8	36.7	32.4	29.9	29.0
62.5°	9783.7	5884.4	122.1	93.1	58.9	40.1	33.3	30.7	24.8	22.2	22.2
65°	9660.8	5353.3	85.4	66.6	42.7	29.9	24.8	24.8	17.9	14.5	13.7
67.5°	8561.1	4522.6	64.9	49.5	30.7	22.2	18.8	21.3	11.1	6.8	6.8
69°	7365.7	3748.2	55.5	41.0	25.6	17.9	16.2	19.6	7.7	5.1	4.3
70°	6401.8	3233.3	50.4	35.9	21.3	15.4	14.5	18.8	7.7	4.3	3.4
72.5°	3830.2	1803.2	38.4	25.6	13.7	12.0	12.0	21.3	7.7	4.3	3.4
75°	1547.9	635.2	28.2	17.9	10.2	10.2	14.5	27.3	6.8	3.4	2.6
77.5°	350.9	139.2	16.2	11.1	6.8	10.2	17.1	21.3	4.3	1.7	0.0
80°	85.4	34.2	10.2	6.8	4.3	7.7	12.8	12.0	0.9	0.0	0.0
82.5°	28.2	12.0	4.3	3.4	0.9	2.6	6.0	3.4	0.0	0.0	0.0
85°	12.0	6.8	1.7	0.9	0.0	0.0	0.9	0.0	0.0	0.0	0.0
87.5°	7.7	2.6	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)