

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: P322079

Luminaire Tested: **GAN-SA5B-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322079
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16146 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

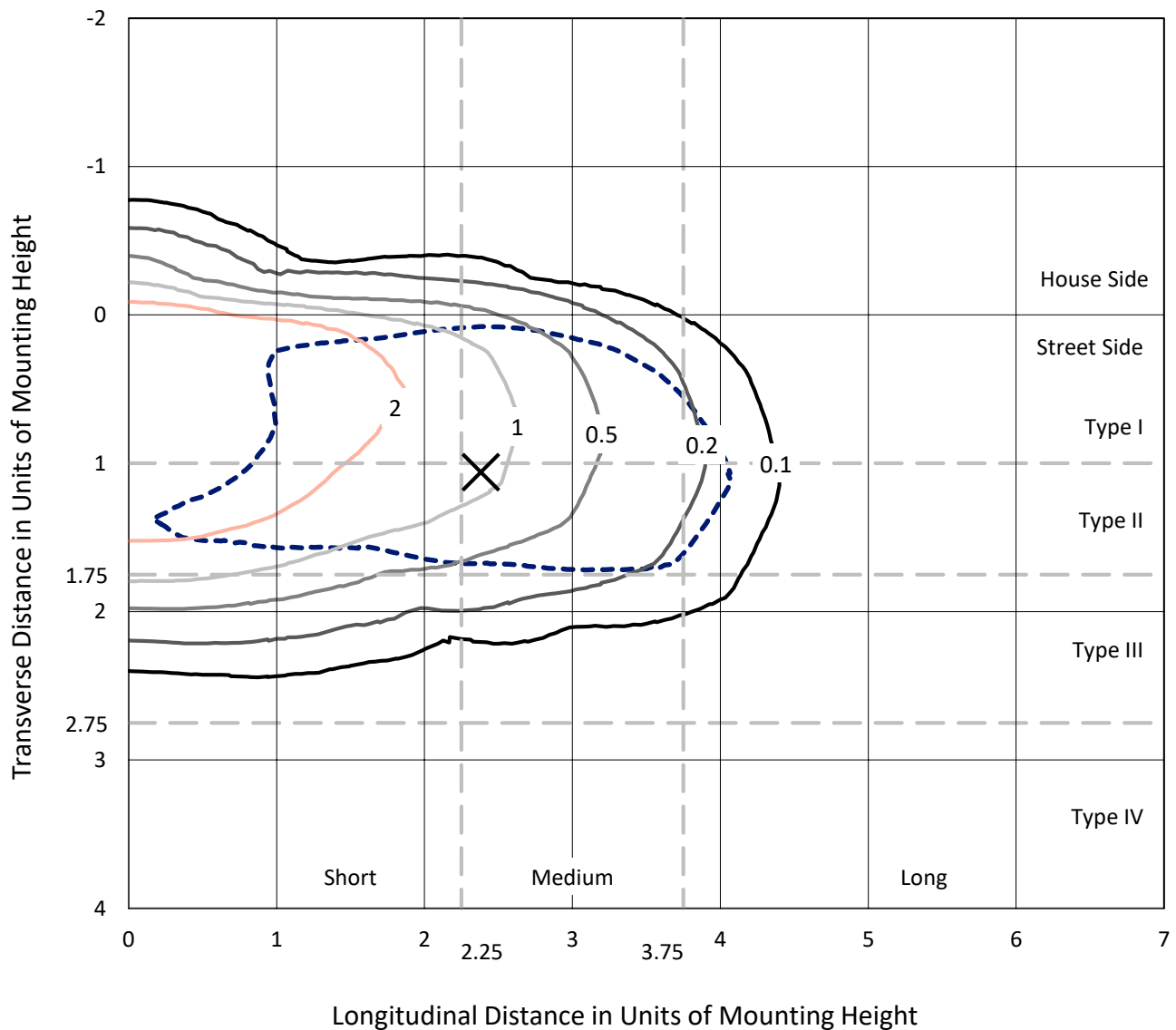


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Iso-Footcandle Lines of Horizontal Illumination

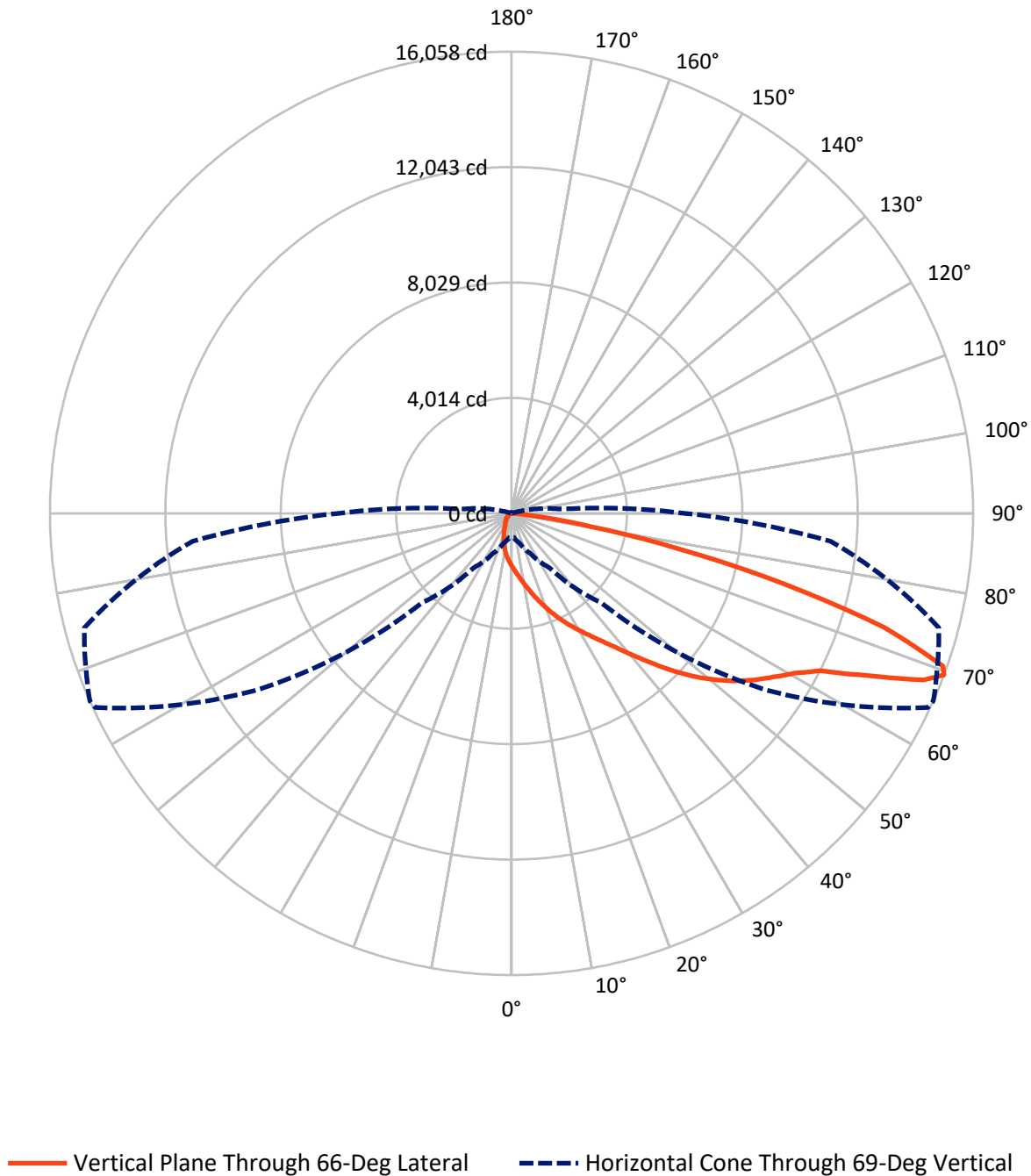
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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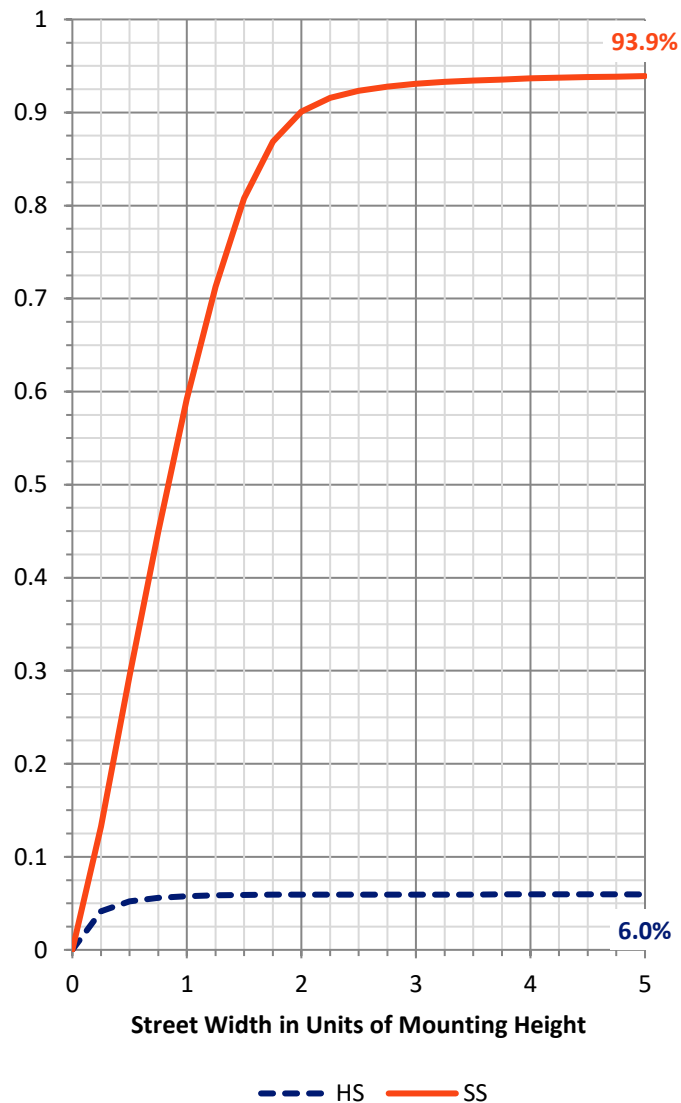
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	968.5	0.0	968.5
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	15177.5	0.0	15177.5
	% Fixture	94.0	0.0	94.0
Total	Lumens	16146.0	0.0	16146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	1.1
10°-20°	528.6	3.3
20°-30°	920.5	5.7
30°-40°	1615.0	10.0
40°-50°	2703.3	16.7
50°-60°	3973.6	24.6
60°-70°	4079.9	25.3
70°-80°	2014.1	12.5
80°-90°	133.2	0.8
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°	16146.0	100.0
0°-180°	16146.0	100.0

Coefficient of Utilization



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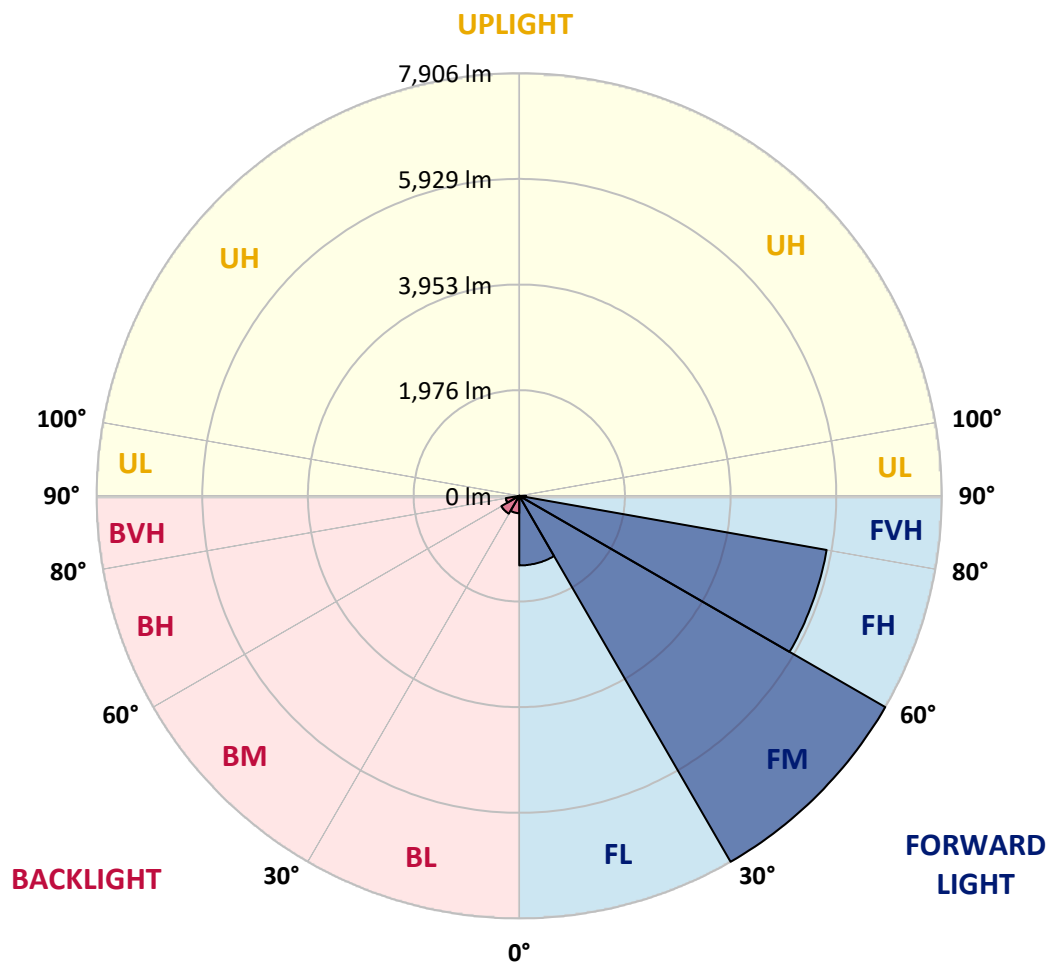
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1302.8	8.1			
FM	(30°-60°)	7905.9	49.0			
FH	(60°-80°)	5838.8	36.2			G3/7500
FVH	(80°-90°)	130.0	0.8			G2/225
BL	(0°-30°)	323.9	2.0	B1/500		
BM	(30°-60°)	386.2	2.4	B1/1000		
BH	(60°-80°)	255.2	1.6	B1/500		G1/500
BVH	(80°-90°)	3.2	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5
2.5°	2162.6	2153.4	2149.6	2132.7	2103.6	2081.3	2038.4	1988.5	1979.3	1931.0	1872.0
5°	2443.3	2435.6	2430.3	2406.5	2376.6	2320.6	2242.4	2149.6	2132.0	2039.9	1921.8
7.5°	2638.9	2652.7	2652.7	2637.3	2599.8	2557.6	2461.7	2335.2	2312.9	2171.8	1988.5
10°	2753.1	2770.0	2783.0	2796.1	2790.7	2773.8	2683.3	2540.7	2513.9	2326.7	2066.0
12.5°	2763.9	2780.7	2817.6	2872.0	2924.9	2963.3	2906.5	2768.5	2737.8	2506.2	2158.0
15°	2704.1	2721.7	2778.4	2884.3	3012.3	3124.3	3142.7	3020.8	2989.3	2720.2	2273.1
17.5°	2599.8	2611.3	2692.5	2839.0	3039.9	3245.5	3356.7	3291.5	3262.3	2964.8	2401.1
20°	2522.3	2530.7	2602.1	2759.3	3023.1	3321.4	3559.1	3579.1	3548.4	3227.1	2539.9
22.5°	2655.0	2670.3	2672.6	2747.0	2977.1	3359.0	3737.1	3862.1	3839.0	3505.5	2676.4
25°	3017.7	3035.3	2977.1	2931.1	3016.2	3375.8	3889.7	4151.9	4133.5	3805.3	2813.7
27.5°	3497.0	3515.4	3440.3	3303.0	3220.9	3439.5	4025.4	4446.4	4445.7	4122.8	2961.7
30°	3967.9	3986.3	3909.6	3772.3	3583.7	3619.7	4142.7	4754.7	4759.3	4450.3	3118.9
32.5°	4461.8	4484.8	4405.8	4229.4	4032.3	3931.1	4307.6	5064.5	5090.6	4829.9	3296.1
35°	5023.1	5026.2	4915.0	4730.2	4503.2	4347.5	4572.2	5411.9	5474.1	5300.0	3520.8
37.5°	5573.8	5596.0	5504.7	5213.3	5004.7	4828.3	4965.6	5846.0	5934.2	5874.4	3814.5
40°	5981.7	6028.5	6015.5	5701.1	5503.2	5377.4	5454.1	6362.1	6474.1	6543.1	4184.9
42.5°	6237.9	6273.2	6333.0	6143.5	5964.1	5984.8	6030.8	6963.4	7101.4	7305.4	4610.5
45°	6531.6	6548.5	6598.3	6514.7	6393.6	6602.1	6642.8	7640.5	7785.5	8125.2	5082.9
47.5°	6890.5	6930.4	6944.2	6867.5	6812.3	7148.2	7232.5	8256.3	8459.6	9003.3	5583.0
50°	7347.6	7358.3	7382.1	7332.2	7277.0	7617.5	7761.7	8902.8	9087.6	9884.4	6076.1
52.5°	7794.7	7833.0	7915.8	7884.4	7862.1	8017.1	8233.3	9485.7	9691.9	10619.1	6568.4
55°	7923.5	7956.5	8242.5	8438.1	8619.1	8509.4	8684.3	10007.9	10231.1	11275.6	7042.3
57.5°	7408.9	7475.6	7971.0	8480.3	9231.0	9274.8	9303.9	10544.0	10744.1	11778.7	7535.5
60°	6108.3	6121.3	6934.2	7807.7	9129.8	9942.7	10208.8	11119.9	11287.8	12247.2	8126.0
62.5°	3885.1	4017.7	4909.6	6142.8	8059.2	9846.1	11303.2	11991.1	12052.4	12809.4	8972.6
65°	1850.5	1936.4	2579.0	3795.3	5837.6	8609.1	12058.6	13567.0	13594.6	13923.6	10103.8
67.5°	1024.6	1066.0	1372.0	2043.0	3412.7	6088.3	11753.3	15433.6	15459.7	15061.7	11096.1
69°	801.4	836.7	1077.5	1539.9	2313.7	4375.9	10636.0	15980.4	16057.9	15387.6	11131.4
70°	680.2	714.7	927.9	1300.6	1860.5	3381.2	9467.2	15844.7	15926.8	15357.0	10868.4
72.5°	416.4	436.4	618.1	915.7	1247.0	1701.0	5838.3	13399.9	13538.7	14087.0	9340.7
75°	280.7	291.4	386.5	631.9	891.9	875.8	3033.0	9445.0	9745.6	10958.1	6898.9
77.5°	200.9	210.9	259.2	408.8	625.0	578.2	1373.5	5869.8	5934.2	6572.2	3762.4
80°	114.3	123.5	183.3	243.1	424.1	385.7	546.0	2803.7	2836.0	2818.3	1256.2
82.5°	59.8	67.5	100.5	160.3	272.2	252.3	227.0	938.7	943.3	784.5	275.3
85°	11.5	13.8	49.8	109.7	140.3	109.7	92.8	220.1	224.7	198.6	68.3
87.5°	0.0	0.8	19.9	24.5	27.6	28.4	29.9	42.9	46.0	62.1	18.4
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°	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5	1837.5
2.5°	1845.9	1818.3	1765.4	1704.0	1656.5	1609.7	1572.9	1534.5	1520.7	1513.8	1513.1
5°	1864.3	1806.0	1694.1	1579.0	1484.7	1395.7	1332.1	1271.5	1243.1	1230.1	1224.7
7.5°	1895.0	1801.4	1621.2	1445.6	1309.8	1198.6	1110.5	1044.5	1011.5	997.7	992.4
10°	1931.0	1795.3	1536.1	1304.5	1131.2	1016.1	928.7	863.5	827.5	812.1	804.5
12.5°	1973.2	1784.6	1437.9	1161.8	978.6	863.5	757.7	677.2	635.8	618.1	609.7
15°	2025.4	1773.8	1335.2	1027.6	844.3	704.0	588.2	533.8	525.3	522.3	523.0
17.5°	2076.7	1756.9	1223.2	895.0	703.2	549.9	490.8	487.7	489.3	489.3	489.3
20°	2122.7	1718.6	1101.3	781.5	569.0	464.0	451.7	446.3	442.5	439.4	435.6
22.5°	2158.8	1667.2	983.9	668.7	464.7	424.9	405.7	388.8	375.0	365.8	361.2
25°	2183.3	1599.0	876.6	560.6	418.0	386.5	352.0	323.6	302.2	289.1	283.7
27.5°	2201.7	1525.3	780.7	469.3	385.7	342.0	296.8	263.0	240.8	229.3	224.7
30°	2214.8	1441.8	696.3	412.6	349.7	295.3	246.9	214.0	197.9	191.7	188.7
32.5°	2227.0	1349.0	616.6	385.7	316.0	252.3	207.1	181.8	171.8	164.1	161.8
35°	2257.7	1263.1	540.7	357.4	281.4	215.5	177.9	159.5	149.5	144.9	143.4
37.5°	2330.6	1199.4	467.8	328.2	246.9	186.4	155.7	142.6	133.4	128.8	127.3
40°	2447.9	1167.2	406.5	296.8	213.2	164.1	141.1	128.8	118.9	112.0	110.4
42.5°	2620.5	1171.8	363.5	265.3	186.4	146.5	127.3	112.7	102.0	95.9	94.3
45°	2829.8	1205.5	333.6	234.7	164.1	132.7	112.0	96.6	86.7	81.3	79.8
47.5°	3056.8	1260.0	309.1	207.1	146.5	119.6	96.6	80.5	72.1	67.5	66.7
50°	3296.1	1312.9	283.7	180.2	131.1	106.6	81.3	66.7	59.8	56.0	54.4
52.5°	3538.4	1374.3	260.7	155.7	118.1	91.3	67.5	54.4	49.1	46.0	44.5
55°	3799.2	1420.3	238.5	136.5	105.1	77.5	56.0	45.2	40.6	36.8	36.0
57.5°	4105.9	1491.6	215.5	118.1	89.7	64.4	46.0	36.0	32.2	28.4	27.6
60°	4520.0	1575.2	191.0	104.3	73.6	52.9	37.6	29.1	24.5	21.5	20.7
62.5°	5066.1	1668.0	160.3	91.3	59.8	42.9	29.9	23.0	17.6	13.8	13.8
65°	5758.6	1819.1	131.1	76.7	49.1	35.3	23.0	16.9	10.0	6.1	6.1
67.5°	6162.7	1845.1	105.8	62.9	39.9	29.9	19.2	11.5	3.1	0.8	0.0
69°	6033.1	1694.1	89.7	53.7	34.5	28.4	17.6	8.4	1.5	0.0	0.0
70°	5789.2	1549.1	79.0	47.5	31.4	26.8	16.9	6.1	1.5	0.0	0.0
72.5°	4783.9	1102.8	59.8	35.3	23.0	23.8	15.3	3.8	1.5	0.0	0.0
75°	3484.7	670.3	42.9	24.5	14.6	17.6	10.7	1.5	0.8	0.0	0.0
77.5°	1938.7	316.0	26.8	13.8	9.2	10.7	5.4	0.0	0.0	0.0	0.0
80°	629.6	85.9	12.3	7.7	5.4	6.1	2.3	0.0	0.0	0.0	0.0
82.5°	116.6	24.5	6.9	3.8	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	25.3	10.0	3.8	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	3.1	0.8	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)