

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: P322069

Luminaire Tested: **GAN-SA5A-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322069
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-SA5A-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA 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: 13166 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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



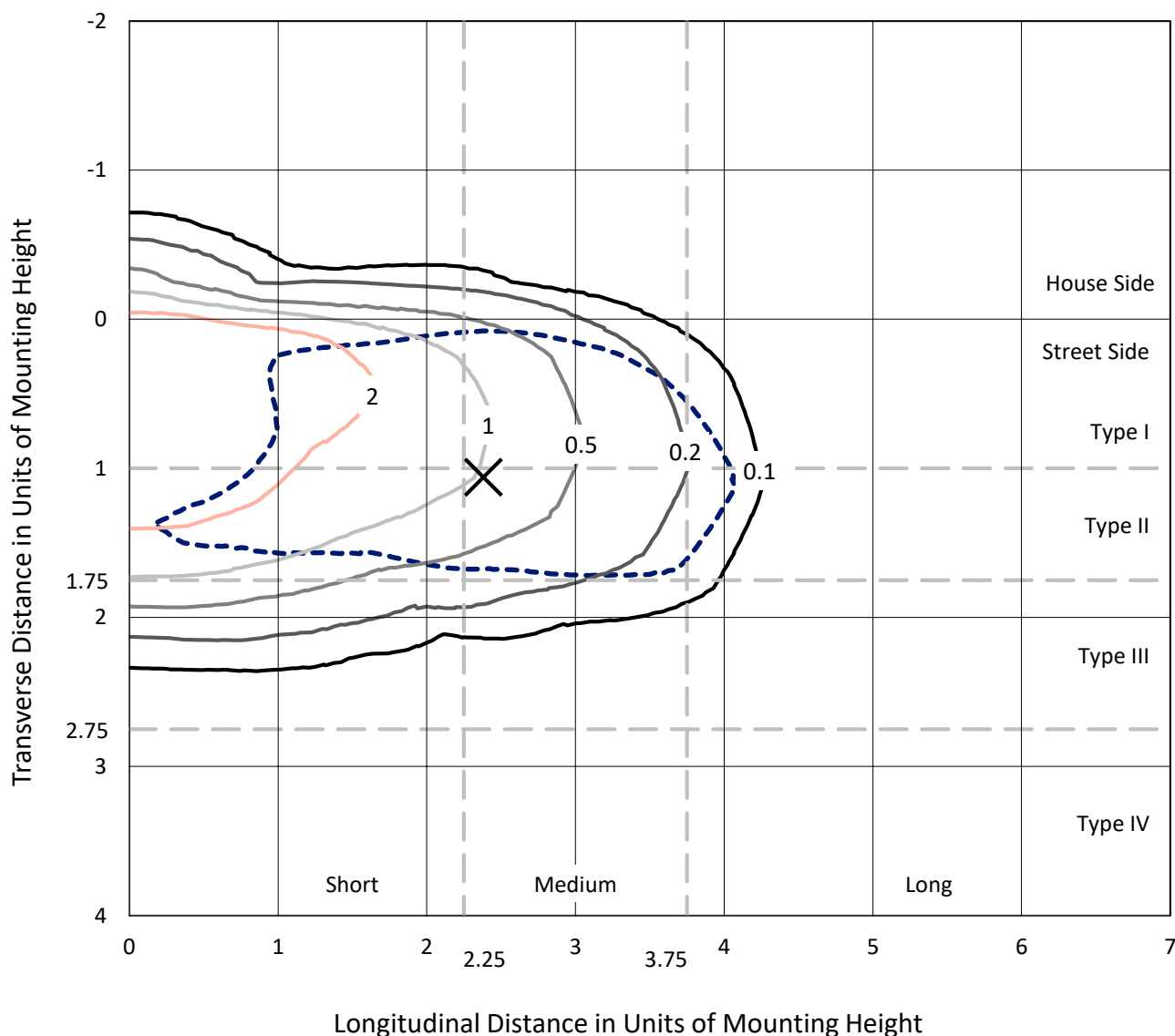
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

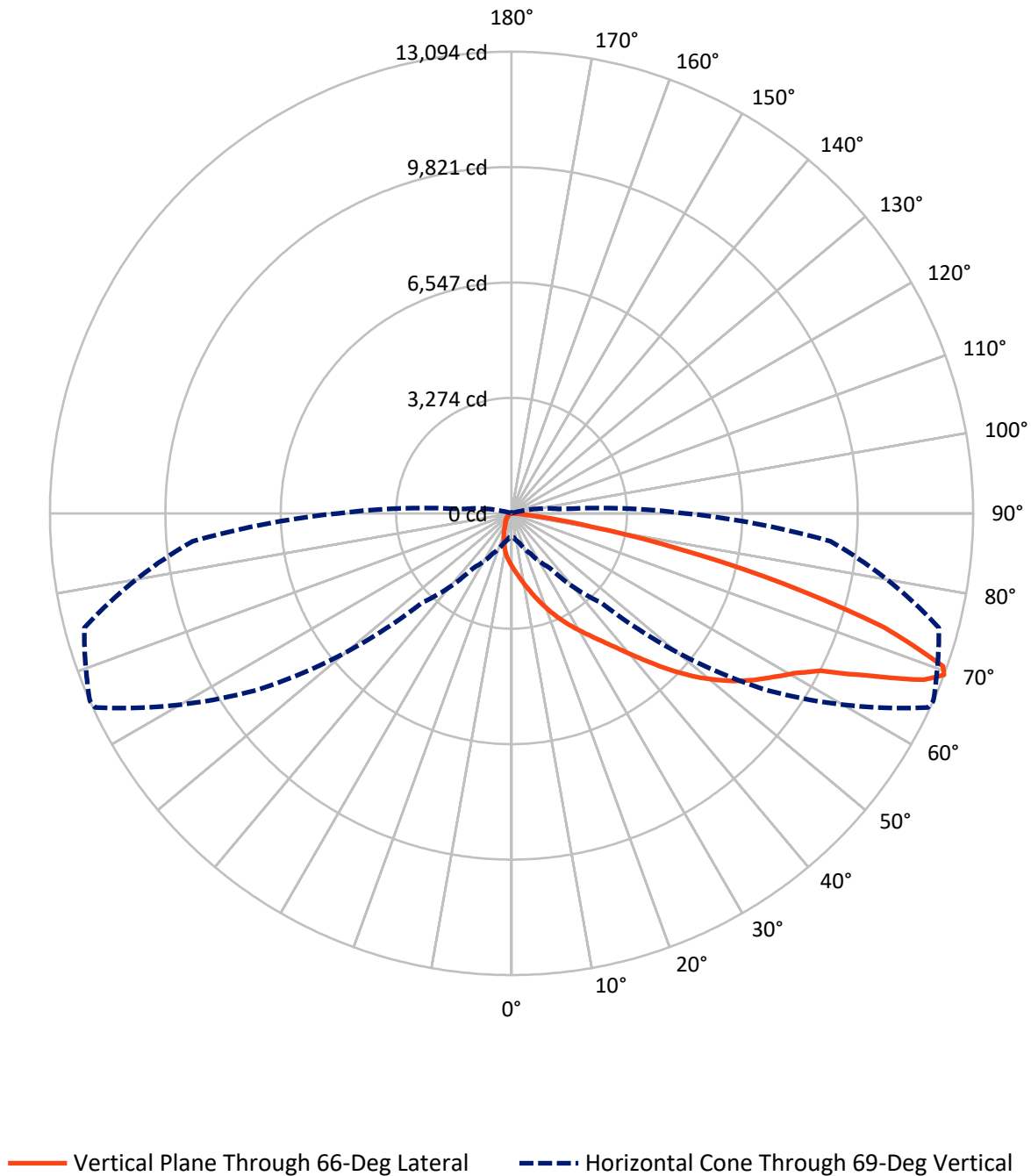
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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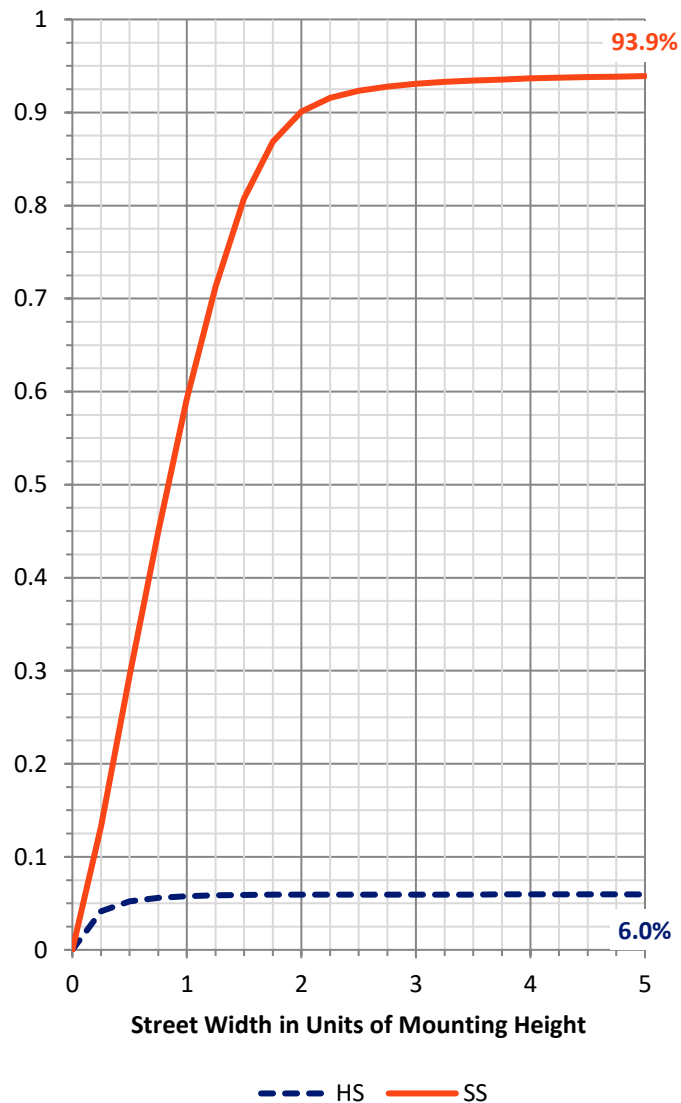
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	789.8	0.0	789.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	12376.2	0.0	12376.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	13166.0	0.0	13166.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	1.1
10°-20°	431.1	3.3
20°-30°	750.6	5.7
30°-40°	1317.0	10.0
40°-50°	2204.4	16.7
50°-60°	3240.2	24.6
60°-70°	3326.9	25.3
70°-80°	1642.4	12.5
80°-90°	108.6	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°	13166.0	100.0
0°-180°	13166.0	100.0

Coefficient of Utilization



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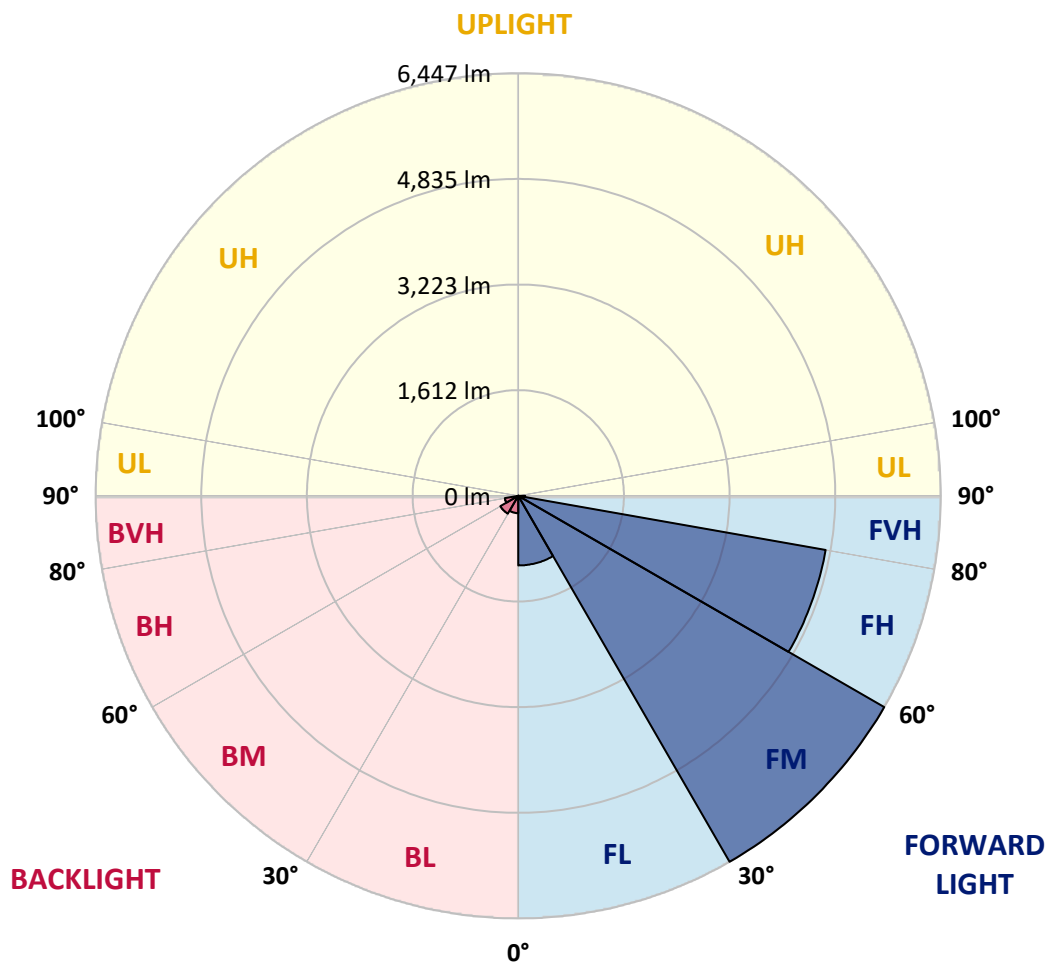
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1062.4	8.1			
FM	(30°-60°)	6446.7	49.0			
FH	(60°-80°)	4761.2	36.2			G2/5000
FVH	(80°-90°)	106.0	0.8			G2/225
BL	(0°-30°)	264.1	2.0	B1/500		
BM	(30°-60°)	314.9	2.4	B1/1000		
BH	(60°-80°)	208.1	1.6	B1/500		G1/500
BVH	(80°-90°)	2.6	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3
2.5°	1763.5	1756.0	1752.8	1739.1	1715.3	1697.2	1662.2	1621.5	1614.0	1574.6	1526.5
5°	1992.4	1986.1	1981.7	1962.3	1938.0	1892.3	1828.5	1752.8	1738.5	1663.4	1567.1
7.5°	2151.8	2163.1	2163.1	2150.6	2119.9	2085.5	2007.4	1904.2	1886.0	1771.0	1621.5
10°	2245.0	2258.8	2269.4	2280.0	2275.6	2261.9	2188.1	2071.8	2049.9	1897.3	1684.7
12.5°	2253.8	2267.5	2297.5	2341.9	2385.1	2416.3	2370.1	2257.5	2232.5	2043.6	1759.7
15°	2205.0	2219.4	2265.6	2351.9	2456.4	2547.7	2562.7	2463.2	2437.6	2218.1	1853.5
17.5°	2119.9	2129.3	2195.6	2315.0	2478.9	2646.5	2737.1	2684.0	2660.2	2417.6	1958.0
20°	2056.8	2063.6	2121.8	2250.0	2465.1	2708.4	2902.2	2918.5	2893.5	2631.5	2071.2
22.5°	2165.0	2177.5	2179.3	2240.0	2427.6	2739.0	3047.3	3149.3	3130.5	2858.5	2182.5
25°	2460.7	2475.1	2427.6	2390.1	2459.5	2752.8	3171.8	3385.6	3370.6	3103.0	2294.4
27.5°	2851.6	2866.6	2805.3	2693.4	2626.5	2804.7	3282.5	3625.8	3625.1	3361.9	2415.1
30°	3235.5	3250.6	3188.0	3076.1	2922.2	2951.6	3378.1	3877.2	3880.9	3628.9	2543.3
32.5°	3638.3	3657.0	3592.6	3448.8	3288.1	3205.5	3512.6	4129.8	4151.1	3938.4	2687.7
35°	4096.0	4098.5	4007.9	3857.1	3672.0	3545.1	3728.3	4413.1	4463.7	4321.8	2871.0
37.5°	4545.0	4563.2	4488.7	4251.1	4081.0	3937.2	4049.1	4767.0	4838.9	4790.2	3110.5
40°	4877.7	4915.9	4905.2	4648.8	4487.5	4384.9	4447.5	5187.9	5279.2	5335.5	3412.5
42.5°	5086.6	5115.3	5164.1	5009.7	4863.3	4880.2	4917.7	5678.2	5790.7	5957.1	3759.6
45°	5326.1	5339.8	5380.5	5312.3	5213.5	5383.6	5416.8	6230.3	6348.5	6625.6	4144.8
47.5°	5618.7	5651.3	5662.5	5600.0	5555.0	5828.9	5897.7	6732.5	6898.2	7341.6	4552.5
50°	5991.5	6000.2	6019.6	5978.9	5933.9	6211.6	6329.1	7259.7	7410.4	8060.1	4954.6
52.5°	6356.0	6387.3	6454.8	6429.2	6411.1	6537.4	6713.7	7734.9	7903.1	8659.2	5356.1
55°	6461.1	6488.0	6721.2	6880.7	7028.3	6938.9	7081.4	8160.8	8342.8	9194.5	5742.6
57.5°	6041.5	6095.9	6499.9	6915.1	7527.3	7563.0	7586.7	8597.9	8761.1	9604.7	6144.7
60°	4980.9	4991.5	5654.4	6366.7	7444.8	8107.6	8324.6	9067.5	9204.5	9986.8	6626.2
62.5°	3168.0	3276.2	4003.5	5009.0	6571.8	8028.8	9217.0	9777.9	9828.0	10445.2	7316.6
65°	1509.0	1579.0	2103.0	3094.8	4760.1	7020.2	9833.0	11063.0	11085.5	11353.8	8239.0
67.5°	835.5	869.2	1118.7	1665.9	2782.8	4964.6	9584.1	12585.1	12606.4	12281.8	9048.2
69°	653.5	682.3	878.6	1255.7	1886.7	3568.2	8672.9	13031.0	13094.2	12547.6	9076.9
70°	554.7	582.8	756.7	1060.6	1517.1	2757.2	7719.9	12920.3	12987.2	12522.6	8862.4
72.5°	339.6	355.8	504.0	746.7	1016.8	1387.0	4760.8	10926.7	11039.9	11487.0	7616.7
75°	228.9	237.6	315.2	515.3	727.3	714.1	2473.3	7701.8	7946.9	8935.6	5625.6
77.5°	163.8	172.0	211.4	333.3	509.7	471.5	1120.0	4786.4	4838.9	5359.2	3068.0
80°	93.2	100.7	149.5	198.2	345.8	314.5	445.2	2286.3	2312.5	2298.2	1024.3
82.5°	48.8	55.0	81.9	130.7	222.0	205.7	185.1	765.4	769.2	639.7	224.5
85°	9.4	11.3	40.6	89.4	114.4	89.4	75.7	179.5	183.2	162.0	55.7
87.5°	0.0	0.6	16.3	20.0	22.5	23.1	24.4	35.0	37.5	50.7	15.0
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°	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3	1498.3
2.5°	1505.2	1482.7	1439.6	1389.5	1350.8	1312.6	1282.6	1251.3	1240.1	1234.4	1233.8
5°	1520.2	1472.7	1381.4	1287.6	1210.7	1138.1	1086.2	1036.8	1013.7	1003.1	998.7
7.5°	1545.2	1468.9	1322.0	1178.8	1068.1	977.4	905.5	851.7	824.8	813.6	809.2
10°	1574.6	1463.9	1252.6	1063.7	922.4	828.6	757.3	704.1	674.8	662.2	656.0
12.5°	1609.0	1455.2	1172.5	947.4	797.9	704.1	617.8	552.2	518.4	504.0	497.2
15°	1651.5	1446.4	1088.7	838.0	688.5	574.1	479.6	435.2	428.4	425.9	426.5
17.5°	1693.4	1432.7	997.4	729.8	573.4	448.4	400.2	397.7	399.0	399.0	399.0
20°	1731.0	1401.4	898.0	637.2	464.0	378.3	368.3	364.0	360.8	358.3	355.2
22.5°	1760.4	1359.5	802.3	545.3	379.0	346.4	330.8	317.1	305.8	298.3	294.5
25°	1780.4	1303.8	714.8	457.1	340.8	315.2	287.0	263.9	246.4	235.8	231.4
27.5°	1795.4	1243.8	636.6	382.7	314.5	278.9	242.0	214.5	196.4	187.0	183.2
30°	1806.0	1175.7	567.8	336.4	285.2	240.8	201.4	174.5	161.3	156.3	153.8
32.5°	1816.0	1100.0	502.8	314.5	257.6	205.7	168.8	148.2	140.1	133.8	131.9
35°	1841.0	1029.9	440.9	291.4	229.5	175.7	145.1	130.1	121.9	118.2	116.9
37.5°	1900.4	978.0	381.5	267.6	201.4	152.0	126.9	116.3	108.8	105.1	103.8
40°	1996.1	951.8	331.4	242.0	173.8	133.8	115.1	105.1	96.9	91.3	90.1
42.5°	2136.8	955.5	296.4	216.4	152.0	119.4	103.8	91.9	83.2	78.2	76.9
45°	2307.5	983.0	272.0	191.4	133.8	108.2	91.3	78.8	70.7	66.3	65.0
47.5°	2492.6	1027.4	252.0	168.8	119.4	97.6	78.8	65.7	58.8	55.0	54.4
50°	2687.7	1070.6	231.4	147.0	106.9	86.9	66.3	54.4	48.8	45.7	44.4
52.5°	2885.4	1120.6	212.6	126.9	96.3	74.4	55.0	44.4	40.0	37.5	36.3
55°	3098.0	1158.1	194.5	111.3	85.7	63.2	45.7	36.9	33.1	30.0	29.4
57.5°	3348.1	1216.3	175.7	96.3	73.2	52.5	37.5	29.4	26.3	23.1	22.5
60°	3685.8	1284.5	155.7	85.0	60.0	43.1	30.6	23.8	20.0	17.5	16.9
62.5°	4131.0	1360.1	130.7	74.4	48.8	35.0	24.4	18.8	14.4	11.3	11.3
65°	4695.7	1483.3	106.9	62.5	40.0	28.8	18.8	13.8	8.1	5.0	5.0
67.5°	5025.3	1504.6	86.3	51.3	32.5	24.4	15.6	9.4	2.5	0.6	0.0
69°	4919.6	1381.4	73.2	43.8	28.1	23.1	14.4	6.9	1.3	0.0	0.0
70°	4720.7	1263.2	64.4	38.8	25.6	21.9	13.8	5.0	1.3	0.0	0.0
72.5°	3900.9	899.2	48.8	28.8	18.8	19.4	12.5	3.1	1.3	0.0	0.0
75°	2841.6	546.6	35.0	20.0	11.9	14.4	8.8	1.3	0.6	0.0	0.0
77.5°	1580.9	257.6	21.9	11.3	7.5	8.8	4.4	0.0	0.0	0.0	0.0
80°	513.4	70.0	10.0	6.3	4.4	5.0	1.9	0.0	0.0	0.0	0.0
82.5°	95.1	20.0	5.6	3.1	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	20.6	8.1	3.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.5	0.6	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)