

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: P322040

Luminaire Tested: **GAN-SA6B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322040
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-SA6B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 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: 17874 lumens
Efficiency: N/A
Efficacy: 71.8 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): 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



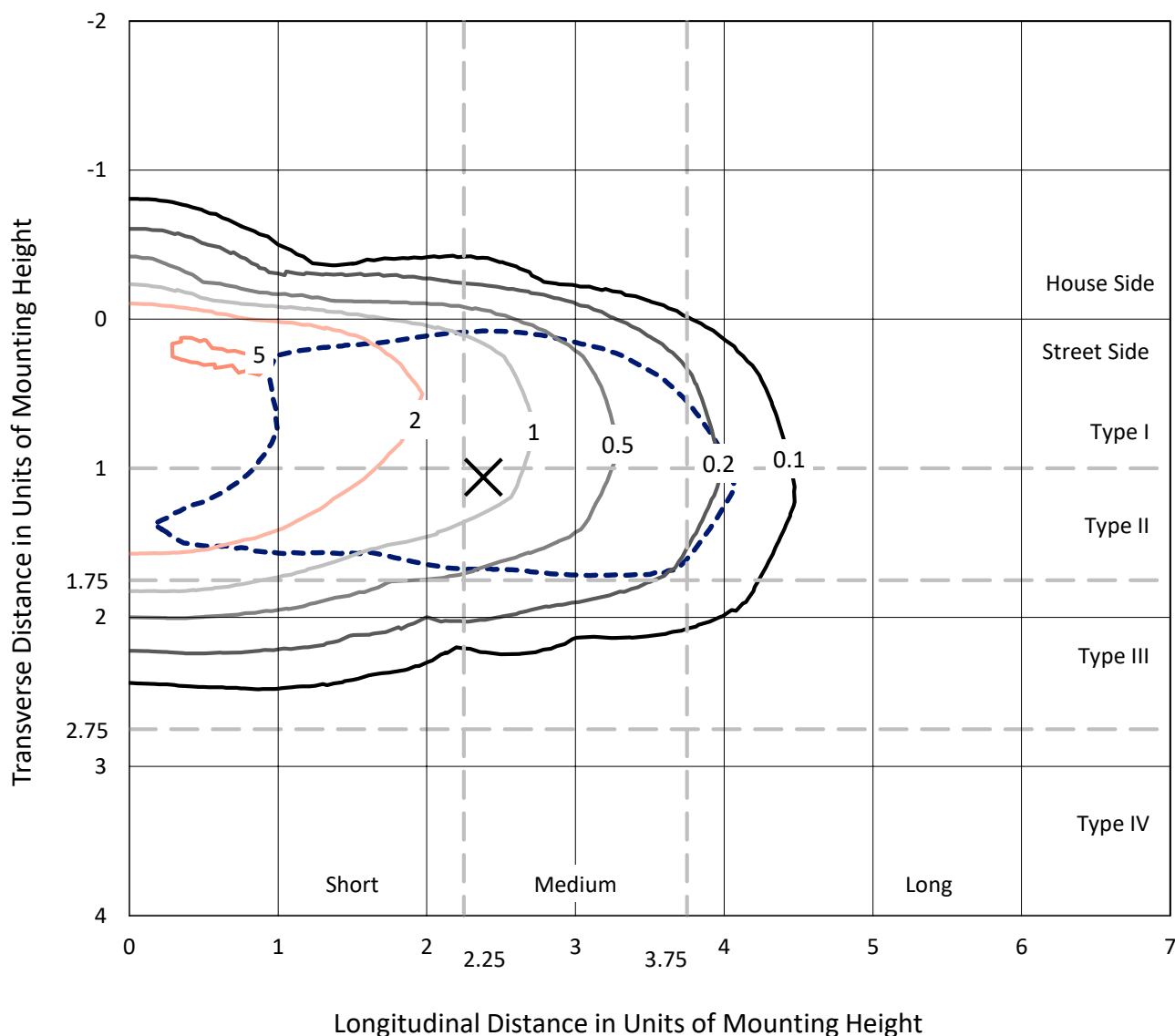
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

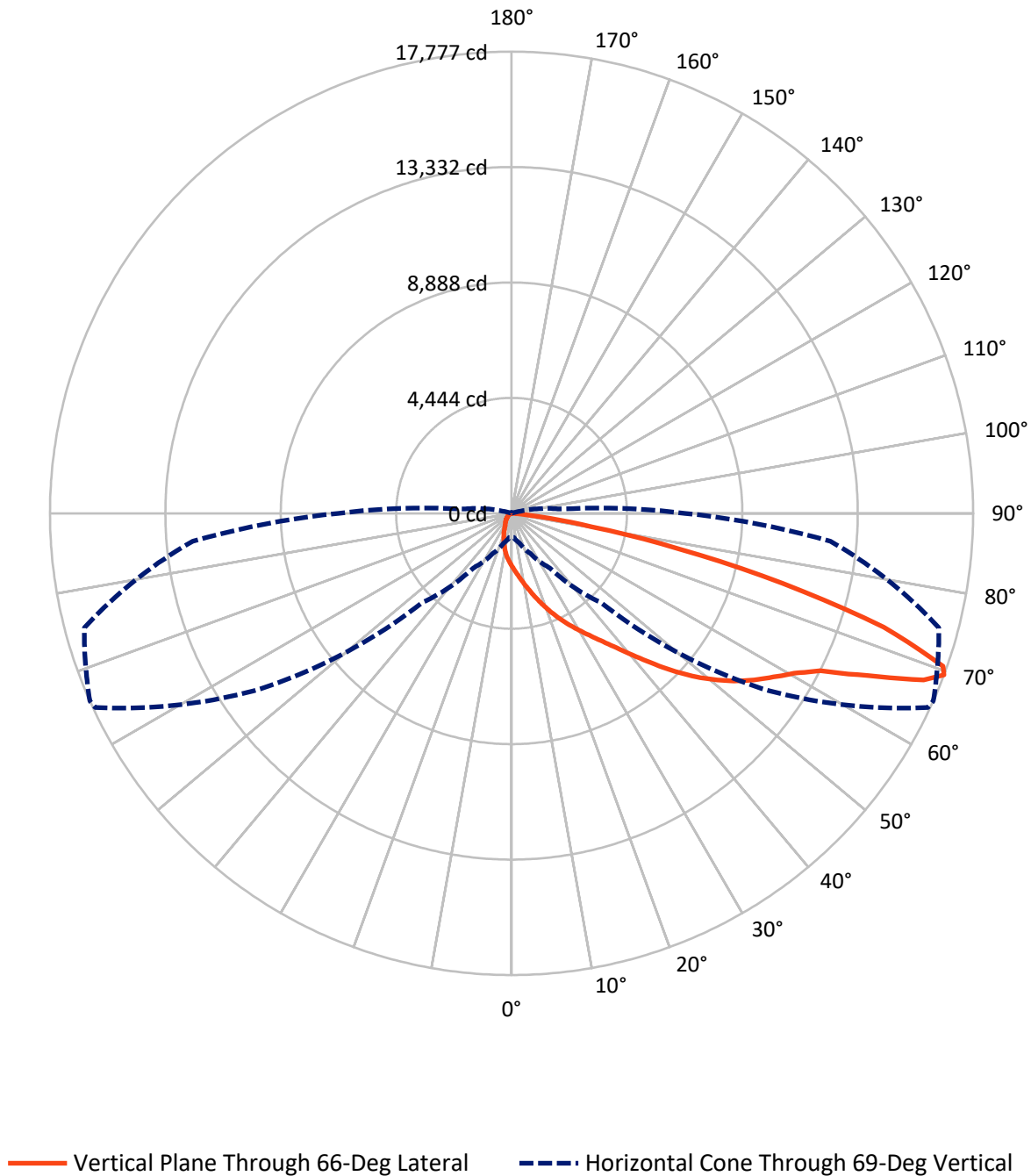
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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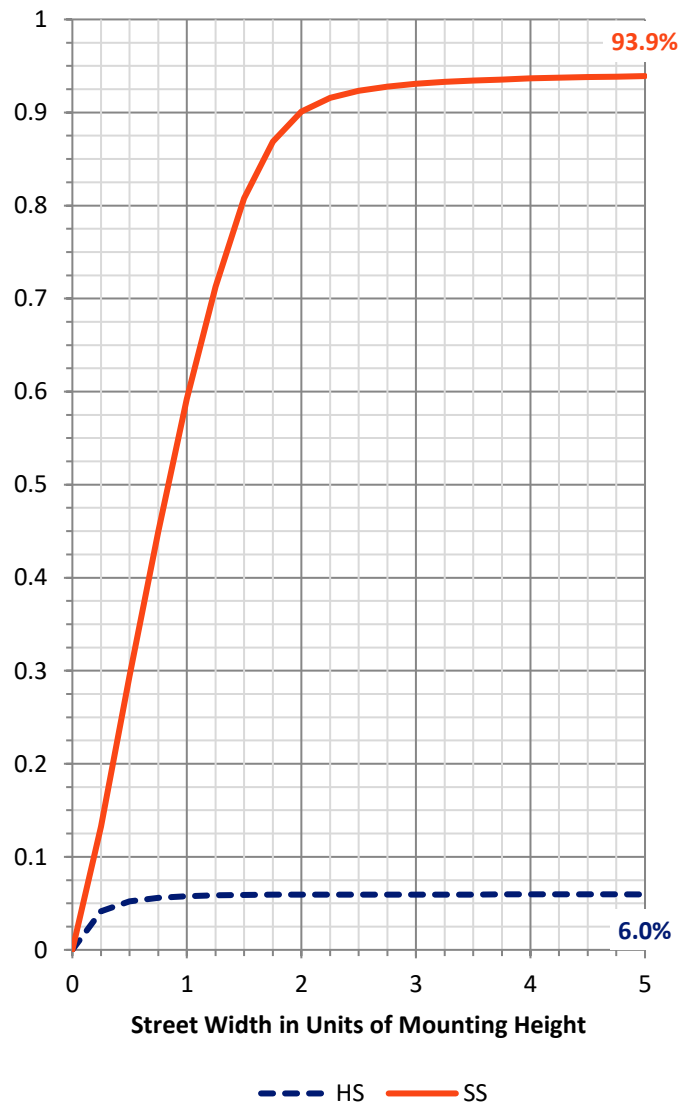
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1072.2	0.0	1072.2
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	16801.8	0.0	16801.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	17874.0	0.0	17874.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.6	1.1
10°-20°	585.2	3.3
20°-30°	1019.0	5.7
30°-40°	1787.9	10.0
40°-50°	2992.6	16.7
50°-60°	4398.9	24.6
60°-70°	4516.6	25.3
70°-80°	2229.7	12.5
80°-90°	147.4	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°	17874.0	100.0
0°-180°	17874.0	100.0

Coefficient of Utilization



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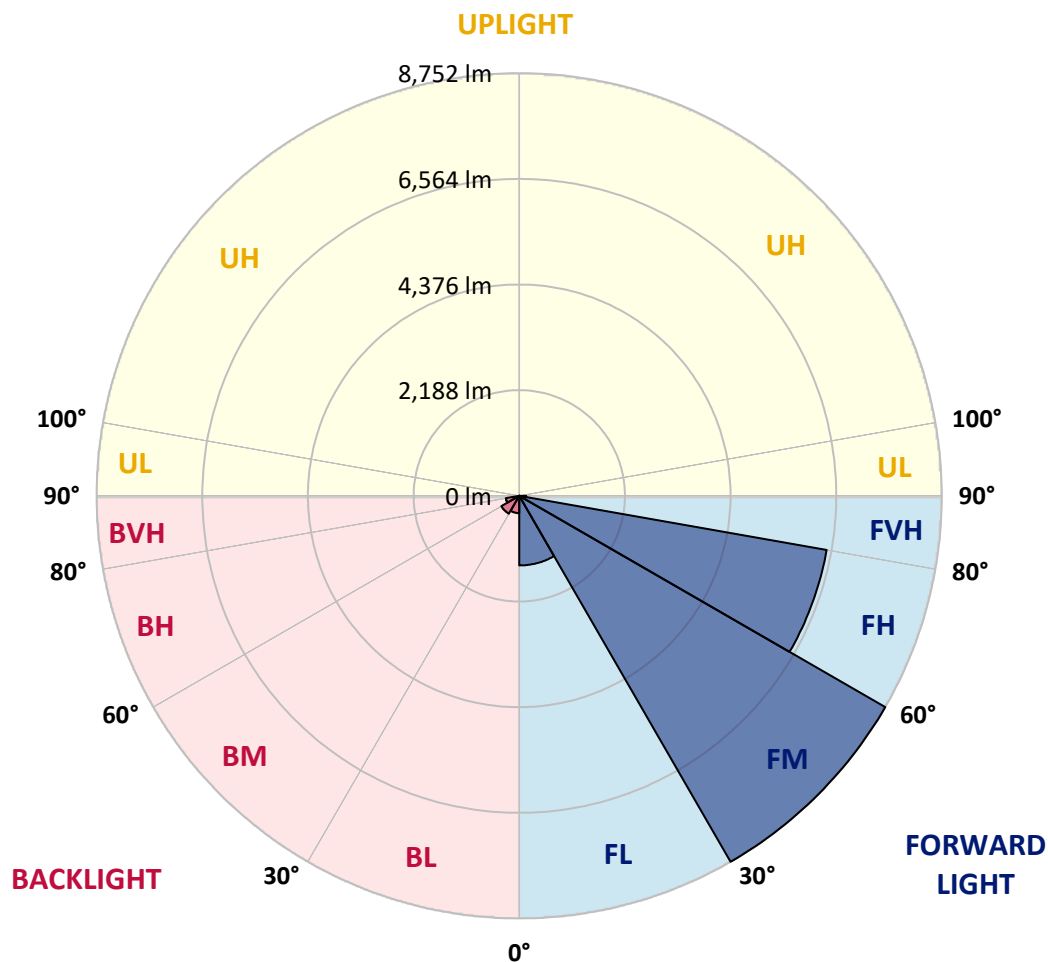
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1442.3	8.1			
FM	(30°-60°)	8752.0	49.0			
FH	(60°-80°)	6463.7	36.2			G3/7500
FVH	(80°-90°)	143.9	0.8			G2/225
BL	(0°-30°)	358.6	2.0	B1/500		
BM	(30°-60°)	427.5	2.4	B1/1000		
BH	(60°-80°)	282.6	1.6	B1/500		G1/500
BVH	(80°-90°)	3.6	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1
2.5°	2394.1	2383.9	2379.6	2361.0	2328.7	2304.1	2256.5	2201.4	2191.2	2137.7	2072.3
5°	2704.8	2696.3	2690.4	2664.1	2630.9	2569.0	2482.4	2379.6	2360.1	2258.2	2127.5
7.5°	2921.3	2936.6	2936.6	2919.6	2878.0	2831.3	2725.2	2585.1	2560.5	2404.3	2201.4
10°	3047.8	3066.5	3080.9	3095.3	3089.4	3070.7	2970.5	2812.6	2782.9	2575.8	2287.1
12.5°	3059.7	3078.3	3119.1	3179.4	3238.0	3280.4	3217.6	3064.8	3030.8	2774.4	2389.0
15°	2993.4	3013.0	3075.8	3193.0	3334.7	3458.7	3479.1	3344.1	3309.3	3011.3	2516.3
17.5°	2878.0	2890.7	2980.7	3142.9	3365.3	3592.8	3715.9	3643.8	3611.5	3282.1	2658.1
20°	2792.2	2801.6	2880.5	3054.6	3346.6	3676.9	3940.0	3962.1	3928.2	3572.4	2811.8
22.5°	2939.1	2956.1	2958.6	3041.0	3295.7	3718.5	4137.0	4275.4	4249.9	3880.6	2962.9
25°	3340.7	3360.2	3295.7	3244.7	3339.0	3737.1	4305.9	4596.3	4575.9	4212.6	3114.9
27.5°	3871.3	3891.7	3808.5	3656.5	3565.7	3807.6	4456.2	4922.3	4921.4	4564.0	3278.7
30°	4392.5	4412.9	4328.0	4176.1	3967.2	4007.1	4586.1	5263.6	5268.7	4926.5	3452.7
32.5°	4939.3	4964.7	4877.3	4682.0	4463.9	4351.8	4768.6	5606.6	5635.4	5346.8	3648.8
35°	5560.7	5564.1	5441.0	5236.4	4985.1	4812.8	5061.5	5991.1	6059.9	5867.2	3897.6
37.5°	6170.3	6194.9	6093.9	5771.3	5540.3	5345.1	5497.0	6471.7	6569.3	6503.1	4222.7
40°	6621.9	6673.7	6659.3	6311.2	6092.2	5952.9	6037.8	7043.0	7167.0	7243.4	4632.8
42.5°	6905.5	6944.5	7010.7	6801.1	6602.4	6625.3	6676.3	7708.6	7861.4	8087.2	5104.0
45°	7230.6	7249.3	7304.5	7212.0	7077.8	7308.7	7353.7	8458.2	8618.7	8994.8	5626.9
47.5°	7627.9	7672.1	7687.4	7602.5	7541.4	7913.2	8006.6	9140.0	9364.9	9966.8	6180.5
50°	8133.9	8145.8	8172.1	8116.9	8055.8	8432.8	8592.4	9855.6	10060.2	10942.3	6726.3
52.5°	8628.9	8671.3	8763.0	8728.2	8703.6	8875.1	9114.5	10500.8	10729.2	11755.6	7271.4
55°	8771.5	8808.0	9124.7	9341.2	9541.5	9420.1	9613.7	11079.0	11326.0	12482.3	7796.0
57.5°	8201.8	8275.7	8824.1	9387.8	10219.0	10267.4	10299.6	11672.4	11894.0	13039.2	8341.9
60°	6762.0	6776.4	7676.3	8643.3	10106.9	11006.8	11301.4	12310.0	12495.9	13558.0	8995.6
62.5°	4300.9	4447.7	5435.1	6800.2	8921.8	10899.9	12512.9	13274.4	13342.3	14180.3	9932.9
65°	2048.6	2143.6	2855.1	4201.5	6462.3	9530.5	13349.1	15019.0	15049.6	15413.8	11185.1
67.5°	1134.2	1180.1	1518.8	2261.6	3777.9	6739.9	13011.2	17085.4	17114.3	16673.7	12283.7
69°	887.2	926.2	1192.8	1704.7	2561.3	4844.2	11774.3	17690.7	17776.5	17034.5	12322.7
70°	753.0	791.2	1027.2	1439.8	2059.6	3743.1	10480.5	17540.5	17631.3	17000.5	12031.5
72.5°	461.0	483.1	684.3	1013.7	1380.4	1883.0	6463.2	14834.0	14987.6	15594.6	10340.4
75°	310.7	322.6	427.9	699.5	987.3	969.5	3357.7	10455.8	10788.6	12130.9	7637.3
77.5°	222.4	233.5	286.9	452.5	691.9	640.1	1520.5	6498.0	6569.3	7275.6	4165.0
80°	126.5	136.7	202.9	269.1	469.5	427.0	604.5	3103.8	3139.5	3119.9	1390.6
82.5°	66.2	74.7	111.2	177.4	301.4	279.3	251.3	1039.1	1044.2	868.5	304.8
85°	12.7	15.3	55.2	121.4	155.4	121.4	102.7	243.7	248.7	219.9	75.6
87.5°	0.0	0.8	22.1	27.2	30.6	31.4	33.1	47.5	50.9	68.8	20.4
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°	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1	2034.1
2.5°	2043.5	2012.9	1954.3	1886.4	1833.8	1782.0	1741.2	1698.8	1683.5	1675.9	1675.0
5°	2063.8	1999.3	1875.4	1748.0	1643.6	1545.1	1474.7	1407.6	1376.2	1361.7	1355.8
7.5°	2097.8	1994.2	1794.7	1600.3	1450.0	1326.9	1229.3	1156.3	1119.8	1104.5	1098.6
10°	2137.7	1987.4	1700.5	1444.1	1252.2	1124.9	1028.1	955.9	916.0	899.1	890.6
12.5°	2184.4	1975.5	1591.8	1286.2	1083.3	955.9	838.8	749.6	703.8	684.3	674.9
15°	2242.1	1963.7	1478.0	1137.6	934.7	779.3	651.2	590.9	581.5	578.1	579.0
17.5°	2299.0	1945.0	1354.1	990.7	778.5	608.7	543.3	539.9	541.6	541.6	541.6
20°	2349.9	1902.5	1219.1	865.1	629.9	513.6	500.0	494.1	489.9	486.5	482.2
22.5°	2389.8	1845.6	1089.2	740.3	514.5	470.3	449.1	430.4	415.1	405.0	399.9
25°	2417.0	1770.1	970.4	620.6	462.7	427.9	389.7	358.3	334.5	320.1	314.1
27.5°	2437.4	1688.6	864.2	519.6	427.0	378.6	328.5	291.2	266.6	253.8	248.7
30°	2451.8	1596.1	770.9	456.7	387.1	326.9	273.4	236.9	219.0	212.2	208.8
32.5°	2465.4	1493.3	682.6	427.0	349.8	279.3	229.2	201.2	190.2	181.7	179.1
35°	2499.4	1398.2	598.5	395.6	311.6	238.6	197.0	176.6	165.5	160.5	158.8
37.5°	2580.0	1327.8	517.9	363.4	273.4	206.3	172.3	157.9	147.7	142.6	140.9
40°	2709.9	1292.1	450.0	328.5	236.0	181.7	156.2	142.6	131.6	123.9	122.3
42.5°	2900.9	1297.2	402.4	293.7	206.3	162.2	140.9	124.8	112.9	106.1	104.4
45°	3132.7	1334.6	369.3	259.8	181.7	146.9	123.9	107.0	95.9	90.0	88.3
47.5°	3384.0	1394.8	342.1	229.2	162.2	132.4	107.0	89.1	79.8	74.7	73.9
50°	3648.8	1453.4	314.1	199.5	145.2	118.0	90.0	73.9	66.2	62.0	60.3
52.5°	3917.1	1521.3	288.6	172.3	130.7	101.0	74.7	60.3	54.3	50.9	49.2
55°	4205.8	1572.3	264.0	151.1	116.3	85.7	62.0	50.1	45.0	40.8	39.9
57.5°	4545.4	1651.2	238.6	130.7	99.3	71.3	50.9	39.9	35.7	31.4	30.6
60°	5003.8	1743.8	211.4	115.5	81.5	58.6	41.6	32.3	27.2	23.8	22.9
62.5°	5608.3	1846.5	177.4	101.0	66.2	47.5	33.1	25.5	19.5	15.3	15.3
65°	6374.9	2013.7	145.2	84.9	54.3	39.1	25.5	18.7	11.0	6.8	6.8
67.5°	6822.3	2042.6	117.2	69.6	44.1	33.1	21.2	12.7	3.4	0.8	0.0
69°	6678.8	1875.4	99.3	59.4	38.2	31.4	19.5	9.3	1.7	0.0	0.0
70°	6408.8	1714.9	87.4	52.6	34.8	29.7	18.7	6.8	1.7	0.0	0.0
72.5°	5295.8	1220.8	66.2	39.1	25.5	26.3	17.0	4.2	1.7	0.0	0.0
75°	3857.7	742.0	47.5	27.2	16.1	19.5	11.9	1.7	0.8	0.0	0.0
77.5°	2146.2	349.8	29.7	15.3	10.2	11.9	5.9	0.0	0.0	0.0	0.0
80°	697.0	95.1	13.6	8.5	5.9	6.8	2.5	0.0	0.0	0.0	0.0
82.5°	129.0	27.2	7.6	4.2	1.7	1.7	0.0	0.0	0.0	0.0	0.0
85°	28.0	11.0	4.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	3.4	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)