

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: P319280

Luminaire Tested: **GAN-SA6B-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319280
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28002 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

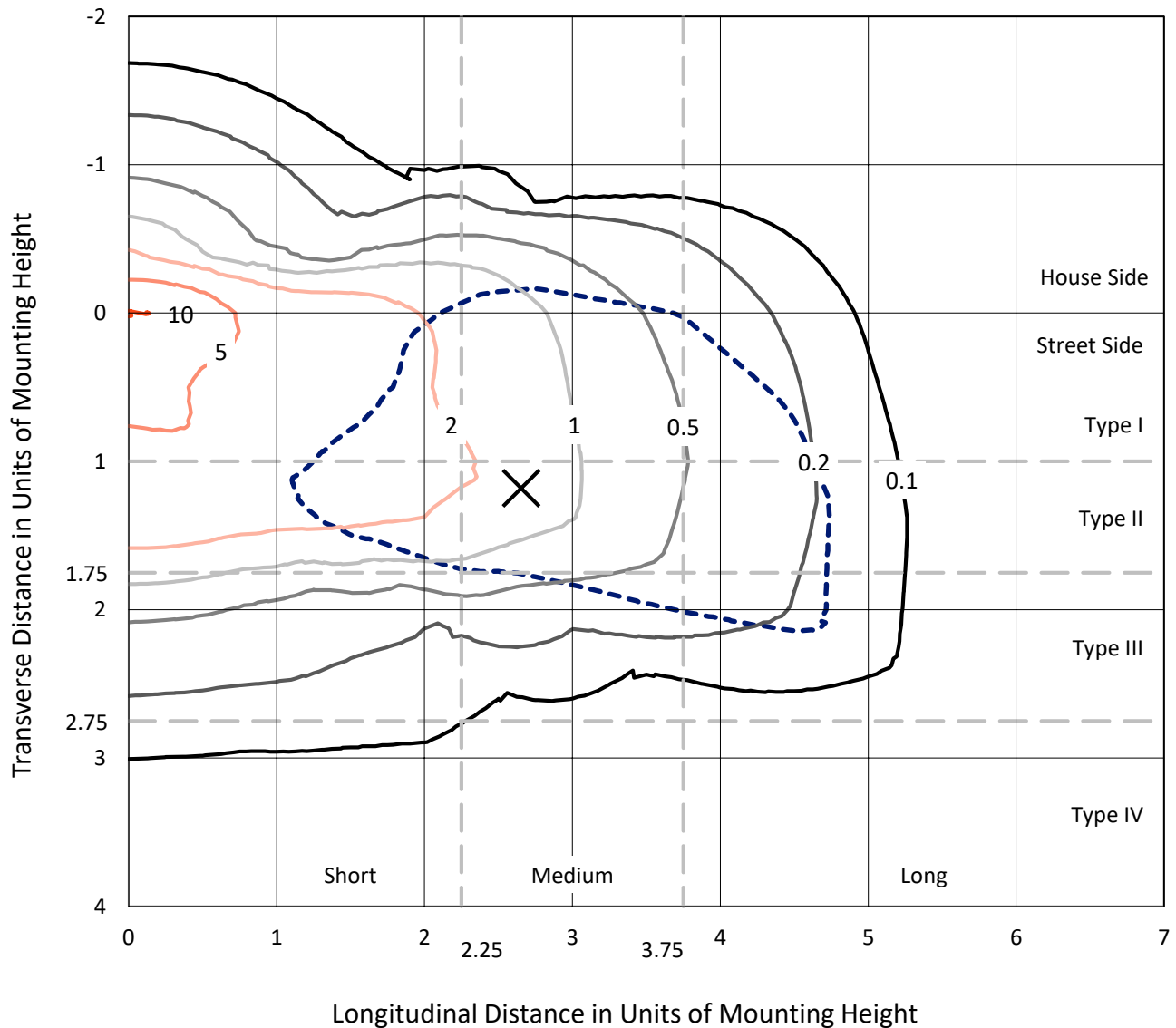
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

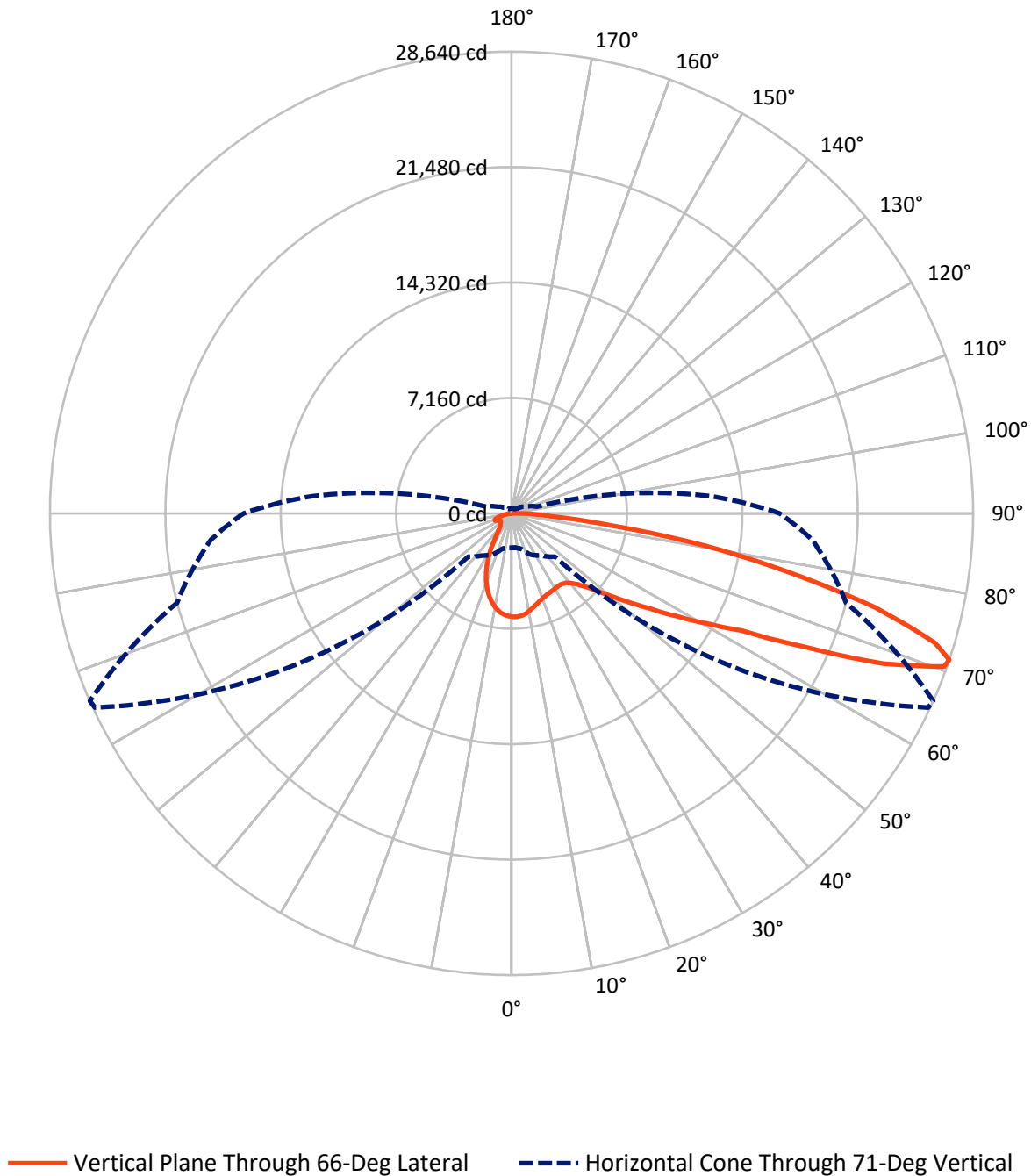
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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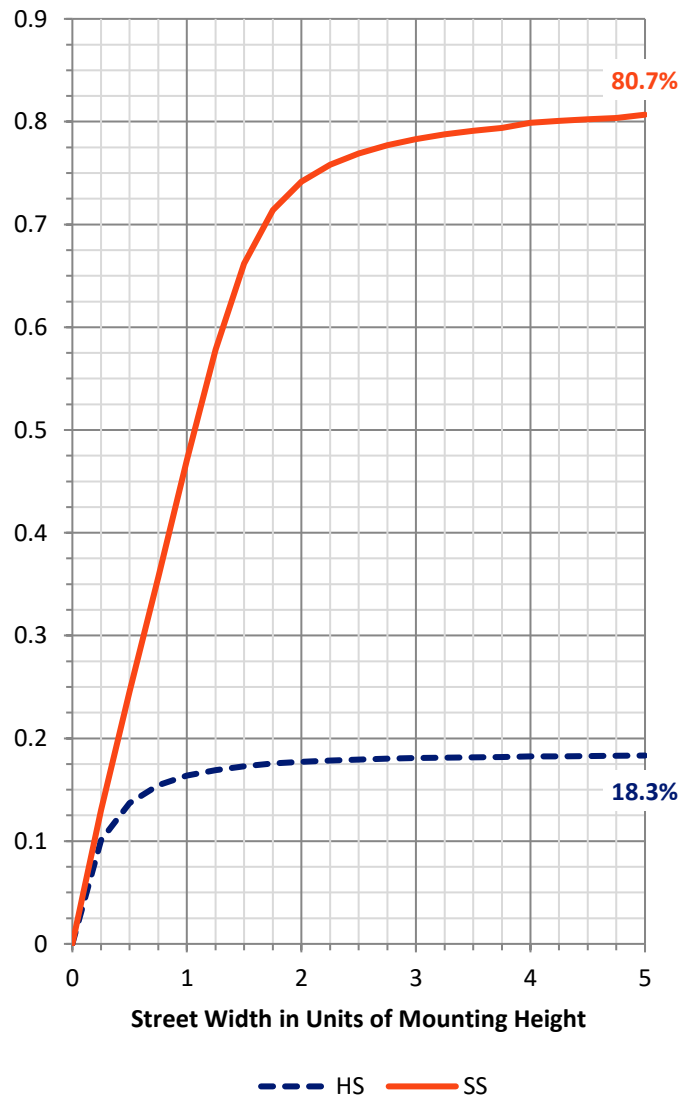
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5189.5	0.0	5189.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	22812.5	0.0	22812.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	28002.0	0.0	28002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.6	2.0
10°-20°	1354.3	4.8
20°-30°	1819.1	6.5
30°-40°	2393.0	8.5
40°-50°	3481.2	12.4
50°-60°	5438.0	19.4
60°-70°	6812.0	24.3
70°-80°	5196.1	18.6
80°-90°	943.6	3.4
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°	28002.0	100.0
0°-180°	28002.0	100.0

Coefficient of Utilization



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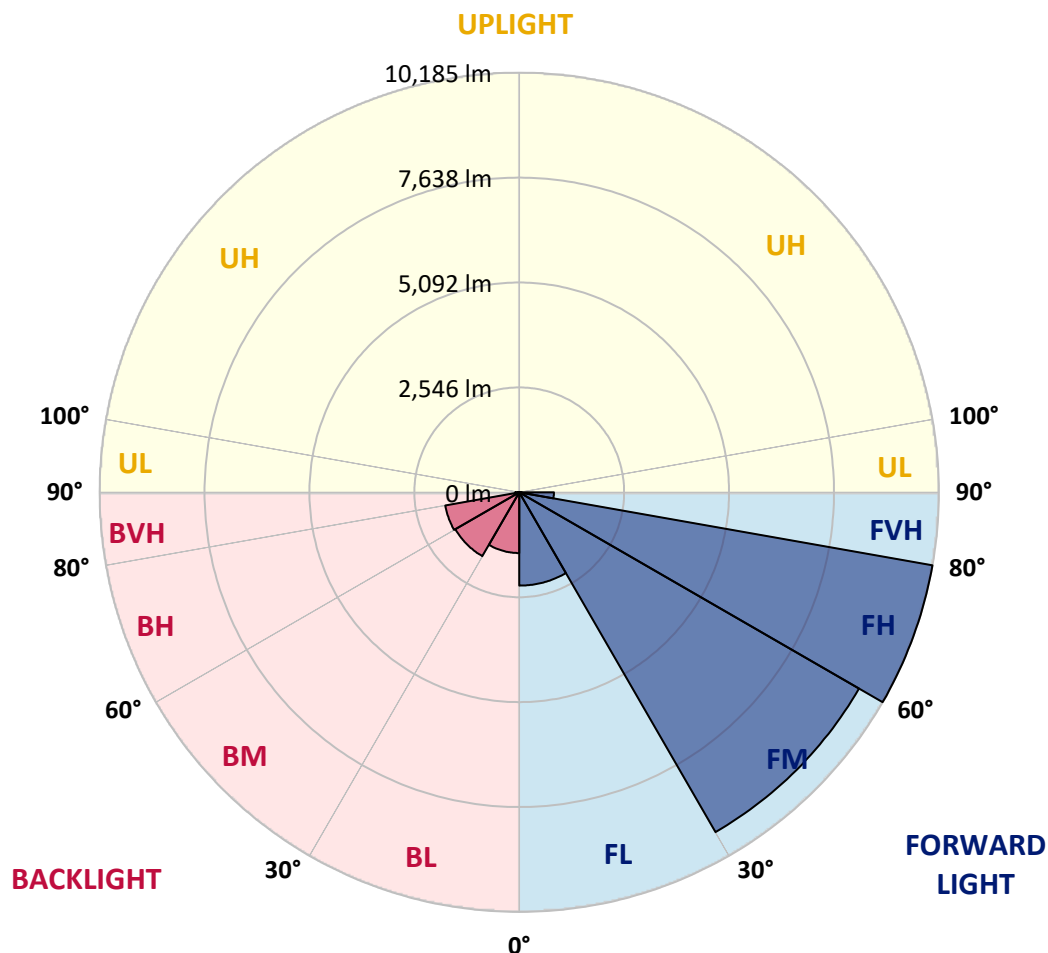
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2264.4	8.1			
FM	(30°-60°)	9522.1	34.0			
FH	(60°-80°)	10184.6	36.4			G4/12000
FVH	(80°-90°)	841.4	3.0			G5
BL	(0°-30°)	1473.7	5.3	B3/2500		
BM	(30°-60°)	1790.2	6.4	B2/2500		
BH	(60°-80°)	1823.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	102.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7
2.5°	6295.8	6286.1	6315.1	6345.1	6356.7	6376.0	6405.0	6421.5	6420.5	6423.4	6413.7
5°	5878.1	5865.6	5923.6	5971.0	6061.8	6164.3	6289.0	6378.0	6379.9	6430.2	6443.7
7.5°	5482.7	5474.0	5540.7	5617.1	5722.5	5879.1	6081.2	6272.6	6284.2	6420.5	6467.9
10°	5165.6	5163.7	5228.5	5311.6	5434.4	5609.4	5841.4	6121.8	6139.2	6374.1	6471.8
12.5°	4918.1	4922.0	4978.1	5072.8	5202.3	5385.1	5636.4	5952.6	5980.6	6300.6	6449.5
15°	4735.4	4750.9	4796.3	4892.0	5019.6	5205.2	5463.4	5796.0	5838.5	6218.5	6437.0
17.5°	4631.0	4648.4	4680.3	4759.6	4879.4	5058.3	5302.9	5667.4	5706.1	6155.6	6437.9
20°	4600.0	4614.5	4632.9	4681.2	4782.8	4945.2	5176.2	5551.4	5592.9	6105.3	6447.6
22.5°	4660.9	4671.6	4673.5	4669.6	4731.5	4864.0	5084.4	5466.3	5510.8	6072.5	6454.4
25°	4791.5	4806.0	4795.3	4759.6	4739.3	4820.5	5037.0	5410.2	5454.7	6048.3	6440.8
27.5°	4987.7	4989.7	4981.0	4934.5	4838.8	4825.3	5022.5	5377.3	5419.9	6020.3	6412.8
30°	5254.6	5267.1	5251.7	5188.8	5032.2	4902.6	5039.9	5345.4	5384.1	5984.5	6367.3
32.5°	5566.8	5597.8	5596.8	5531.1	5306.8	5075.7	5111.5	5326.1	5356.1	5946.8	6312.2
35°	5890.7	5933.2	6012.5	5984.5	5707.0	5349.3	5248.8	5357.0	5377.3	5942.0	6273.6
37.5°	6227.2	6269.7	6433.1	6508.5	6183.7	5740.9	5465.3	5466.3	5476.0	6000.9	6270.7
40°	6579.1	6624.5	6870.1	7066.3	6801.4	6236.8	5814.3	5694.5	5683.8	6145.9	6327.7
42.5°	7072.1	7112.7	7407.6	7658.0	7486.9	6872.0	6296.8	6046.4	6024.1	6430.2	6510.4
45°	7695.7	7730.5	8043.8	8311.6	8223.6	7597.1	6902.9	6530.7	6526.9	6903.9	6880.7
47.5°	8437.3	8464.3	8745.7	9004.8	9036.7	8431.5	7664.8	7278.1	7215.2	7553.6	7454.0
50°	9209.7	9239.7	9431.1	9709.6	9946.4	9548.1	8645.1	8193.6	8109.5	8411.2	8266.1
52.5°	9721.2	9760.8	9927.1	10280.0	10969.3	10772.1	9804.3	9303.5	9175.9	9450.5	9339.3
55°	9493.0	9582.0	9836.2	10401.8	11787.2	12641.9	11234.2	10598.1	10454.0	10682.2	10616.4
57.5°	8455.6	8577.4	8924.5	9797.5	11902.3	14289.3	13396.0	12122.7	12021.2	11955.4	11985.4
60°	6559.7	6676.7	7106.9	8244.9	11100.8	15492.0	16649.3	14002.2	13855.2	13233.6	13260.6
62.5°	4642.6	4583.6	4878.5	5710.9	9020.2	15633.2	20351.1	16515.8	16032.4	14583.2	14464.3
65°	3540.4	3526.9	3659.3	3924.2	5463.4	13944.2	22556.4	20740.8	19985.7	16170.7	15890.3
67.5°	2909.1	2884.9	3015.4	3401.2	3518.2	8996.1	22604.7	25642.4	24900.9	18146.8	17539.7
70°	2391.9	2364.8	2486.6	2984.5	3251.3	4562.3	19024.7	28512.9	28473.2	20648.9	18784.9
71°	2144.4	2125.0	2271.0	2824.0	3194.3	3802.4	16425.9	28520.6	28639.5	21495.8	18711.4
72.5°	1746.0	1752.8	1907.5	2513.7	3151.8	3357.7	12072.4	27191.2	27442.6	22303.1	18043.4
75°	1160.2	1166.0	1369.0	1933.6	3056.1	3285.2	6635.1	22816.5	23278.6	21819.7	16464.6
77.5°	779.2	777.3	915.6	1326.4	2662.6	3285.2	3890.4	17065.0	17572.6	17361.8	12693.1
80°	536.6	532.7	630.4	915.6	2015.8	3324.8	3007.7	11959.3	12113.0	9376.0	5158.8
82.5°	328.7	331.6	411.9	646.8	1371.9	2992.2	2839.5	6521.1	6353.8	2629.7	1288.7
85°	188.5	187.6	263.0	438.0	880.8	2525.3	2768.9	2806.6	2574.6	791.8	466.0
87.5°	67.7	72.5	141.2	242.7	504.7	1758.6	2349.3	1459.9	1315.8	357.7	210.8
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°	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7	6414.7
2.5°	6407.0	6412.8	6406.0	6367.3	6334.5	6281.3	6251.3	6209.8	6197.2	6191.4	6206.9
5°	6431.2	6433.1	6376.0	6274.5	6160.4	6026.1	5929.4	5810.5	5754.4	5730.2	5745.7
7.5°	6453.4	6444.7	6320.0	6125.6	5914.9	5680.9	5473.1	5282.6	5171.4	5126.0	5129.8
10°	6456.3	6419.6	6219.4	5918.7	5592.0	5248.8	4929.7	4635.8	4450.2	4329.3	4366.1
12.5°	6426.3	6364.4	6071.5	5650.9	5197.5	4729.6	4298.4	3857.5	3592.6	3469.8	3473.7
15°	6403.1	6291.0	5889.7	5335.8	4726.7	4107.0	3518.2	3000.0	2717.7	2592.0	2533.0
17.5°	6383.8	6211.7	5679.0	4981.0	4170.8	3384.8	2677.1	2214.9	2060.3	2023.5	2008.0
20°	6356.7	6127.6	5444.0	4570.1	3537.5	2576.5	1954.9	1726.7	1727.7	1770.2	1776.0
22.5°	6319.0	6031.9	5193.6	4108.9	2857.9	1876.6	1532.4	1466.6	1533.3	1614.6	1629.1
25°	6262.9	5918.7	4915.2	3599.4	2179.2	1442.5	1309.0	1306.1	1387.4	1472.4	1485.0
27.5°	6183.7	5770.8	4605.8	3052.2	1605.9	1225.9	1172.7	1193.0	1253.0	1314.8	1319.7
30°	6077.3	5598.7	4264.6	2475.0	1258.8	1091.5	1085.7	1104.1	1140.8	1184.3	1188.2
32.5°	5960.3	5423.7	3900.1	1916.2	1078.0	1019.0	1024.8	1033.5	1050.9	1068.3	1072.2
35°	5854.0	5244.9	3526.9	1456.0	991.9	971.6	967.8	965.8	967.8	962.0	962.9
37.5°	5785.3	5097.0	3138.2	1159.2	942.6	930.1	918.5	904.0	887.5	877.9	879.8
40°	5760.2	4986.8	2744.7	1001.6	902.0	893.3	871.1	840.1	820.8	815.0	815.0
42.5°	5827.9	4929.7	2364.8	922.3	868.2	853.7	816.9	781.2	766.7	765.7	764.7
45°	6034.8	4952.9	2003.2	878.8	837.2	809.2	760.9	730.9	721.2	723.2	722.2
47.5°	6406.0	5098.9	1693.8	849.8	806.3	769.6	715.4	691.3	679.7	679.7	680.6
50°	7037.3	5440.2	1447.3	825.6	780.2	732.8	682.6	652.6	637.1	636.2	636.2
52.5°	7956.8	6051.2	1293.6	805.3	751.2	700.0	649.7	612.0	593.6	589.7	587.8
55°	9109.2	6927.1	1251.0	791.8	712.5	664.2	610.1	572.3	552.0	543.3	542.4
57.5°	10397.9	7992.5	1335.2	775.4	672.9	621.7	566.5	530.8	509.5	498.9	497.9
60°	11702.1	9155.6	1678.4	752.2	640.0	575.2	522.1	489.2	467.9	456.3	454.4
62.5°	13008.3	10381.5	2379.3	750.2	616.8	530.8	476.6	448.6	428.3	415.7	412.8
65°	14481.7	11723.4	3175.9	801.5	609.1	490.2	430.2	408.0	390.6	379.0	378.0
67.5°	16173.6	13238.4	3099.6	906.9	635.2	453.4	386.7	369.3	356.7	347.1	346.1
70°	16967.3	13001.5	1926.8	981.3	671.9	417.7	345.1	332.6	322.9	316.1	313.2
71°	16634.8	12345.1	1615.5	972.6	668.1	402.2	328.7	319.0	309.4	303.6	300.7
72.5°	15727.9	11258.4	1347.7	904.9	624.6	374.2	307.4	297.8	289.1	282.3	280.4
75°	14113.3	10054.7	1078.9	723.2	497.9	316.1	269.7	259.1	252.3	248.5	244.6
77.5°	10374.7	7175.6	834.3	571.4	366.4	258.1	230.1	222.4	215.6	209.8	206.9
80°	3974.5	2779.5	561.7	426.4	268.8	204.0	185.6	181.8	175.0	171.1	171.1
82.5°	1070.2	830.5	299.7	258.1	179.8	148.9	142.1	140.2	134.4	126.7	127.6
85°	433.1	366.4	168.2	142.1	110.2	88.0	95.7	96.7	89.9	80.2	81.2
87.5°	190.5	155.7	93.8	62.8	48.3	33.8	43.5	43.5	39.6	32.9	30.0
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)