

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: P319930

Luminaire Tested: **GAN-SA6C-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6C-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33617 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

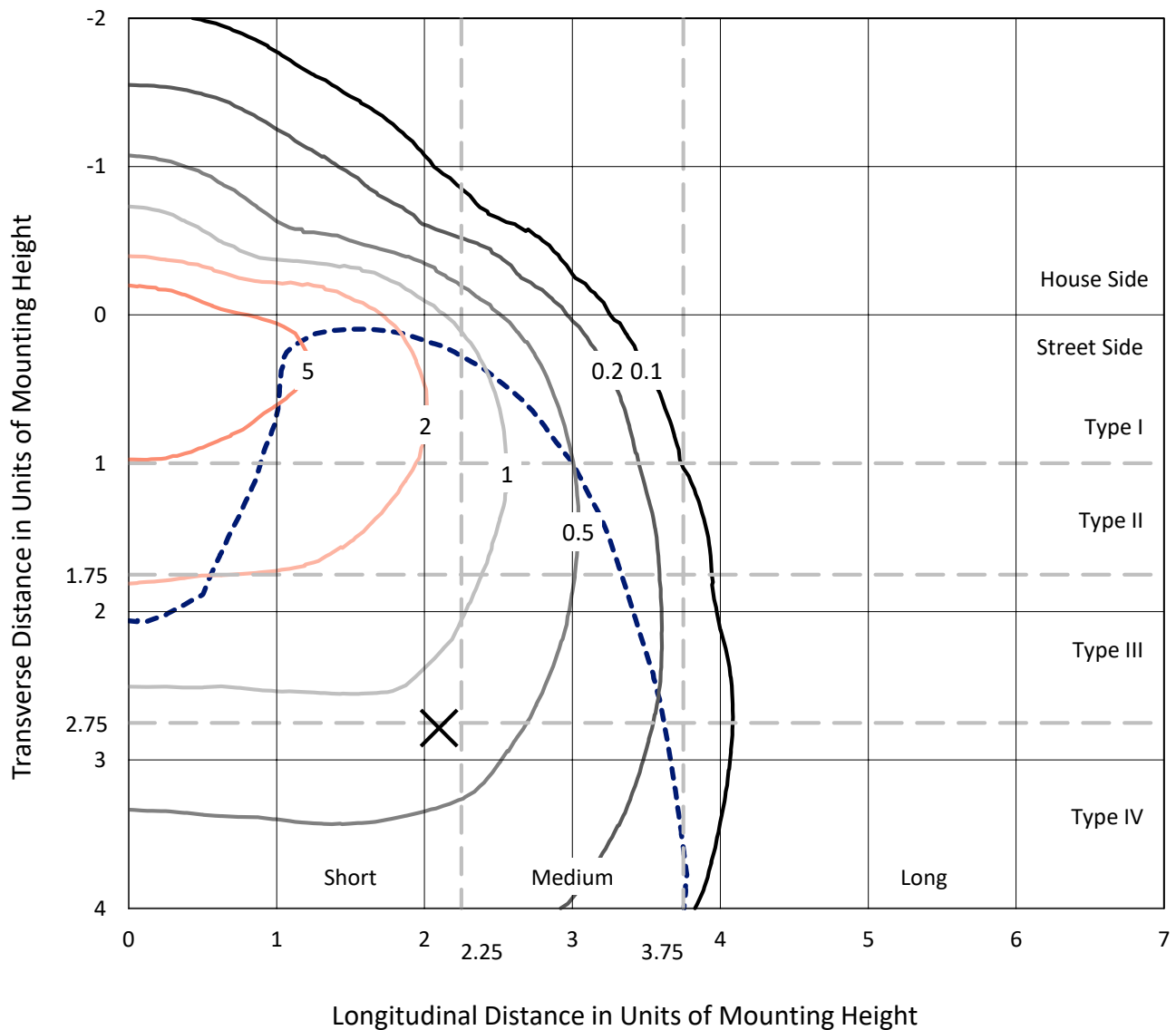
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

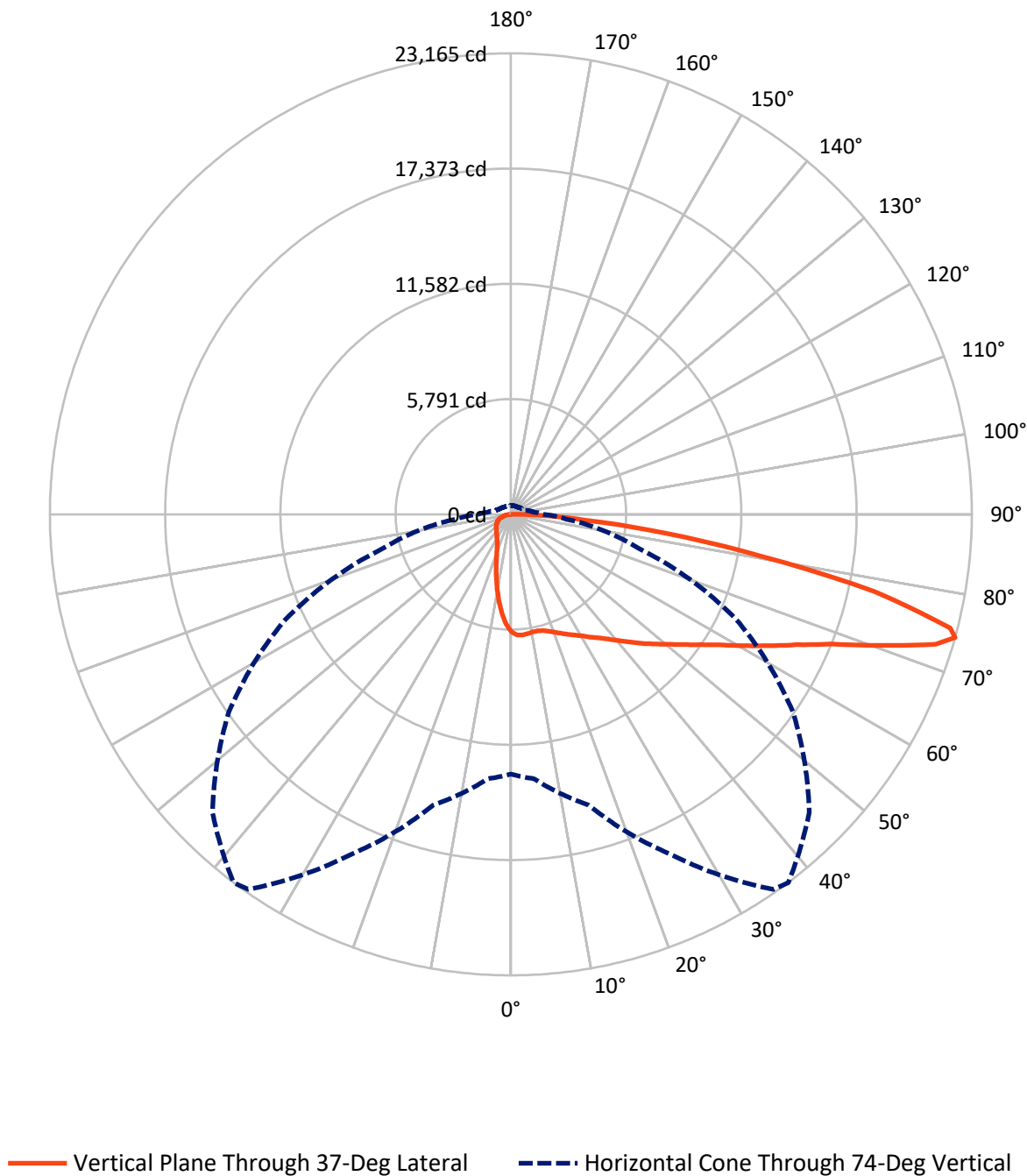
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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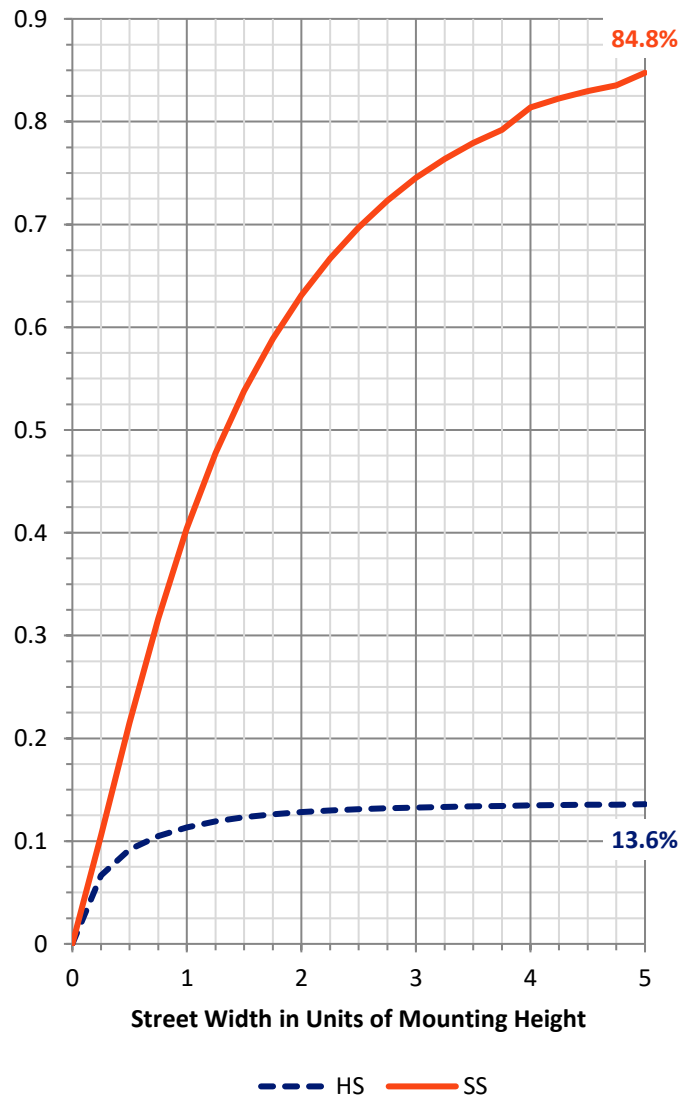
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4625.5	0.0	4625.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	28991.5	0.0	28991.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	33617.0	0.0	33617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.6	1.6
10°-20°	1337.0	4.0
20°-30°	2060.1	6.1
30°-40°	2995.6	8.9
40°-50°	4409.1	13.1
50°-60°	6191.7	18.4
60°-70°	7836.8	23.3
70°-80°	6900.6	20.5
80°-90°	1364.4	4.1
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°	33617.0	100.0
0°-180°	33617.0	100.0

Coefficient of Utilization



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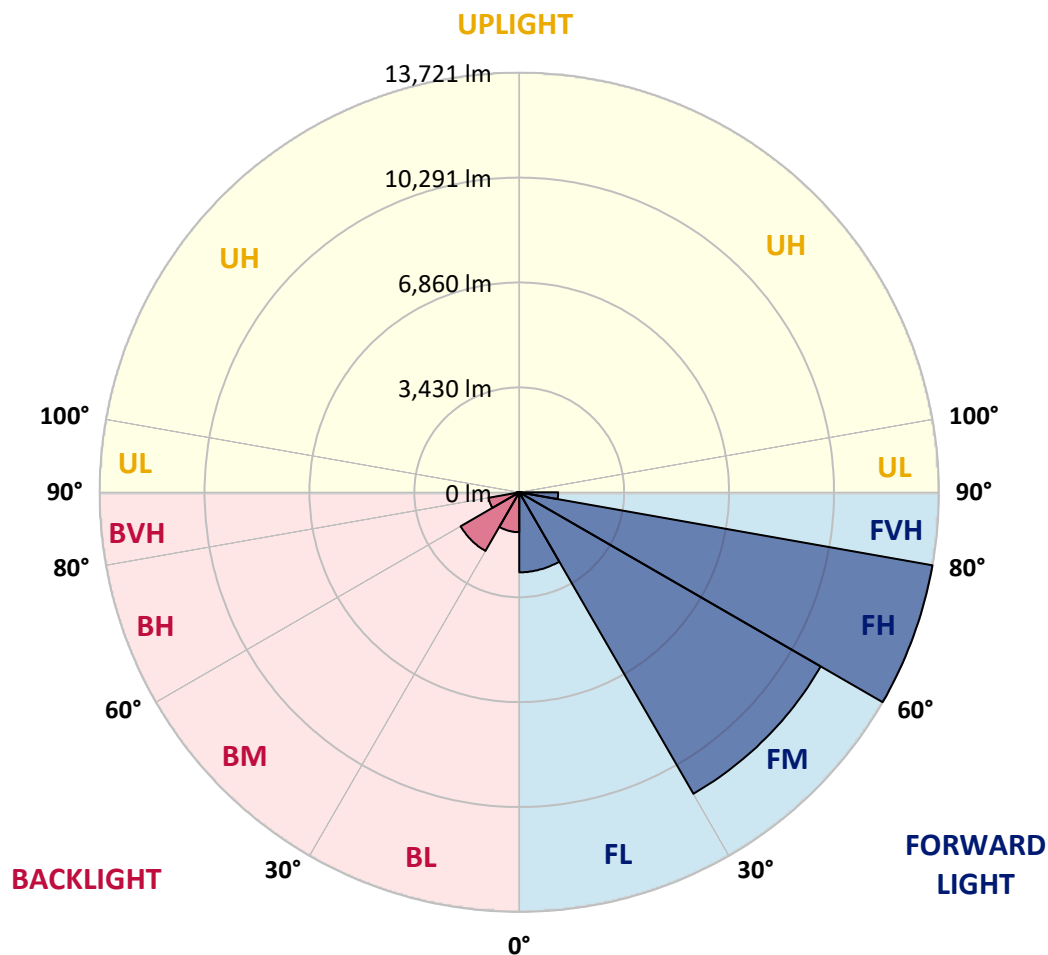
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2615.8	7.8			
FM	(30°-60°)	11383.0	33.9			
FH	(60°-80°)	13720.7	40.8			G5
FVH	(80°-90°)	1272.0	3.8			G5
BL	(0°-30°)	1302.9	3.9	B3/2500		
BM	(30°-60°)	2213.5	6.6	B2/2500		
BH	(60°-80°)	1016.7	3.0	B3/2500		G3/2500
BVH	(80°-90°)	92.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2
2.5°	6125.7	6126.9	6125.7	6116.2	6093.7	6074.8	6059.4	6036.9	5987.1	5949.2	5892.4
5°	6183.7	6176.6	6171.9	6154.1	6118.6	6097.3	6067.7	6025.0	5943.3	5867.5	5775.2
7.5°	6156.5	6148.2	6137.5	6116.2	6075.9	6058.2	6016.7	5961.1	5862.8	5763.3	5630.7
10°	6072.4	6070.0	6065.3	6060.5	6026.2	6012.0	5974.1	5914.9	5817.8	5697.0	5541.9
12.5°	5978.8	5984.8	6003.7	6028.6	6013.2	6006.1	5982.4	5942.1	5842.7	5712.4	5525.3
15°	5919.6	5936.2	5987.1	6052.3	6065.3	6062.9	6057.0	6030.9	5925.6	5781.1	5563.2
17.5°	5899.5	5926.7	6023.8	6131.6	6169.5	6177.8	6180.1	6135.2	6017.9	5865.2	5602.3
20°	5936.2	5970.6	6112.7	6260.7	6321.1	6325.8	6315.1	6237.0	6105.5	5937.4	5623.6
22.5°	6047.5	6078.3	6255.9	6422.9	6491.6	6498.7	6466.7	6348.3	6197.9	6022.7	5653.2
25°	6261.9	6299.7	6477.4	6644.3	6679.9	6681.0	6634.9	6488.0	6318.7	6142.3	5717.1
27.5°	6541.3	6579.2	6739.1	6902.5	6883.5	6872.9	6810.1	6663.3	6476.2	6306.9	5830.8
30°	6852.8	6894.2	7045.8	7161.8	7116.8	7095.5	7044.6	6855.1	6695.3	6531.8	6004.9
32.5°	7174.8	7212.7	7345.4	7424.7	7367.9	7358.4	7281.4	7108.5	6980.6	6875.3	6286.7
35°	7505.2	7532.5	7662.7	7707.7	7631.9	7629.6	7608.2	7449.6	7369.0	7418.8	6696.4
37.5°	7842.7	7849.8	7961.1	7963.5	7941.0	7950.5	7973.0	7873.5	7896.0	8051.1	7229.3
40°	8143.5	8162.4	8243.0	8267.8	8306.9	8340.1	8452.6	8387.4	8561.5	8836.2	7892.4
42.5°	8366.1	8402.8	8531.9	8595.8	8722.5	8774.7	8933.3	8993.7	9344.2	9756.3	8681.1
45°	8554.4	8611.2	8818.5	8949.9	9164.2	9255.4	9482.8	9685.3	10228.8	10754.6	9511.2
47.5°	8758.1	8830.3	9089.6	9340.7	9632.0	9735.0	10148.3	10451.4	11172.6	11758.7	10293.9
50°	9057.7	9113.3	9366.7	9761.1	10124.6	10257.2	10829.2	11263.8	12131.8	12715.5	10972.5
52.5°	9475.7	9454.4	9668.7	10221.7	10709.6	10873.0	11556.3	12128.2	13104.0	13581.2	11545.6
55°	9896.1	9860.5	10010.9	10703.7	11391.7	11563.4	12356.7	12996.2	14028.8	14360.3	11984.9
57.5°	10363.8	10296.3	10423.0	11247.2	12168.5	12373.3	13253.2	13918.7	14938.2	14990.3	12264.4
60°	10845.8	10754.6	10896.7	11921.0	13154.9	13396.4	14302.3	14818.6	15795.6	15494.8	12354.4
62.5°	11267.3	11203.4	11422.4	12672.9	14266.8	14532.1	15332.5	15775.4	16641.0	15704.4	12029.9
65°	11635.6	11646.2	12025.2	13518.4	15506.6	15789.6	16514.3	16954.9	17306.5	15580.0	11270.9
67.5°	12074.9	12135.3	12781.9	14631.5	17067.3	17377.6	18233.7	18240.9	17678.4	14850.6	9776.5
70°	12715.5	12839.9	13822.7	16175.7	19286.5	19712.8	20373.5	18996.3	17156.2	12873.0	7692.3
72.5°	13283.9	13516.0	14929.9	17942.4	21991.1	22314.4	21625.2	18560.6	14973.7	9647.4	4792.3
74°	13053.0	13340.8	15131.2	18812.8	23009.5	23164.6	21202.4	17288.8	12484.6	6681.0	2785.2
75°	12555.7	12868.3	14837.6	18804.5	22880.4	22794.0	20181.7	15835.8	10282.1	4556.7	1853.2
77.5°	10132.9	10463.3	12502.4	16116.5	18760.7	18679.0	15503.1	10623.1	4503.4	1494.4	941.4
80°	5891.2	6143.4	7761.0	10234.7	12650.4	12798.4	10195.6	5256.5	1771.5	839.6	638.3
82.5°	2617.0	2791.1	3749.1	5224.5	7634.3	7825.0	5339.4	2754.4	1094.2	510.4	383.7
85°	1717.0	1846.1	2276.0	2487.9	3635.4	3765.6	2613.4	2144.5	722.3	280.6	281.8
87.5°	1235.1	1359.4	1691.0	1476.7	1668.5	1579.7	1422.2	1984.7	290.1	159.9	94.7
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°	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2	5923.2
2.5°	5867.5	5848.6	5806.0	5725.4	5680.4	5642.5	5579.8	5543.1	5526.5	5525.3	5532.4
5°	5721.9	5678.1	5567.9	5432.9	5325.2	5226.9	5104.9	5031.5	4979.4	4948.6	4956.9
7.5°	5552.5	5483.9	5311.0	5095.5	4922.6	4731.9	4543.6	4431.1	4343.5	4278.4	4290.2
10°	5436.5	5341.8	5089.5	4779.3	4491.5	4214.4	3955.1	3800.0	3676.8	3582.1	3589.2
12.5°	5397.4	5269.5	4920.2	4505.7	4101.9	3723.0	3384.3	3146.3	3019.6	2911.9	2920.1
15°	5403.3	5231.6	4778.1	4259.4	3751.4	3274.2	2863.3	2585.0	2413.3	2338.7	2339.9
17.5°	5408.1	5187.8	4628.9	3995.4	3404.5	2855.0	2408.6	2126.8	1964.5	1895.8	1897.0
20°	5392.7	5116.8	4444.2	3692.2	3042.1	2470.2	2037.9	1798.7	1675.6	1622.3	1622.3
22.5°	5372.5	5032.7	4235.8	3387.9	2684.5	2136.2	1772.7	1590.3	1519.3	1483.8	1482.6
25°	5382.0	4969.9	4022.6	3075.3	2355.3	1869.8	1596.3	1475.5	1428.1	1405.6	1404.4
27.5°	5432.9	4940.3	3826.0	2763.8	2067.5	1669.7	1477.8	1392.6	1361.8	1347.6	1347.6
30°	5525.3	4940.3	3621.2	2498.6	1828.3	1521.6	1386.7	1328.6	1307.3	1297.8	1297.8
32.5°	5686.4	4967.6	3423.4	2235.7	1637.7	1405.6	1310.9	1271.8	1255.2	1250.5	1250.5
35°	5963.4	5059.9	3230.4	1987.0	1483.8	1310.9	1238.6	1216.1	1204.3	1203.1	1206.7
37.5°	6353.0	5248.2	3049.2	1803.5	1374.8	1233.9	1178.2	1160.5	1153.4	1159.3	1164.0
40°	6843.3	5504.0	2884.6	1637.7	1291.9	1172.3	1122.6	1110.7	1107.2	1115.5	1122.6
42.5°	7435.4	5849.8	2749.6	1518.1	1228.0	1120.2	1075.2	1061.0	1057.5	1066.9	1076.4
45°	8076.0	6221.6	2654.9	1429.3	1178.2	1081.1	1033.8	1018.4	1011.3	1016.0	1026.7
47.5°	8658.6	6573.3	2617.0	1366.5	1130.9	1048.0	997.1	978.1	966.3	963.9	972.2
50°	9150.0	6835.0	2634.8	1328.6	1093.0	1011.3	961.5	940.2	922.5	911.8	917.7
52.5°	9507.6	6999.6	2651.3	1312.1	1063.4	971.0	922.5	902.3	878.6	860.9	860.9
55°	9767.0	7037.5	2614.6	1299.0	1040.9	927.2	878.6	859.7	836.0	815.9	813.5
57.5°	9868.8	6930.9	2478.5	1280.1	1025.5	885.8	832.5	818.3	798.1	774.4	773.3
60°	9731.5	6601.7	2215.6	1239.8	1005.4	851.4	786.3	776.8	767.3	744.8	743.7
62.5°	9179.6	5879.4	1875.7	1158.1	965.1	814.7	743.7	748.4	749.6	734.2	731.8
65°	8179.0	4887.0	1544.1	1051.5	904.7	770.9	699.8	722.3	735.4	733.0	729.4
67.5°	6724.9	3803.5	1308.5	939.0	825.4	710.5	652.5	678.5	689.2	697.5	695.1
70°	4991.2	2682.1	1082.3	820.6	729.4	639.4	590.9	603.9	596.8	606.3	609.8
72.5°	2782.8	1609.3	882.2	702.2	630.0	556.6	522.2	519.8	504.5	504.5	504.5
74°	1669.7	1180.6	775.6	628.8	569.6	502.1	472.5	461.8	447.6	448.8	447.6
75°	1342.8	1014.8	711.7	580.2	527.0	470.1	440.5	426.3	415.6	415.6	414.5
77.5°	847.9	770.9	573.1	461.8	421.6	387.2	367.1	348.1	348.1	347.0	345.8
80°	640.6	613.4	446.4	349.3	323.3	297.2	284.2	275.9	275.9	279.5	278.3
82.5°	439.3	461.8	313.8	243.9	230.9	212.0	209.6	210.8	207.2	202.5	201.3
85°	320.9	347.0	212.0	153.9	140.9	129.1	138.5	143.3	137.4	126.7	122.0
87.5°	123.2	227.4	113.7	63.9	59.2	50.9	59.2	61.6	66.3	52.1	53.3
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)