

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: P319298

Luminaire Tested: **GAN-SA4D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319298
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-SA4D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 25643 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

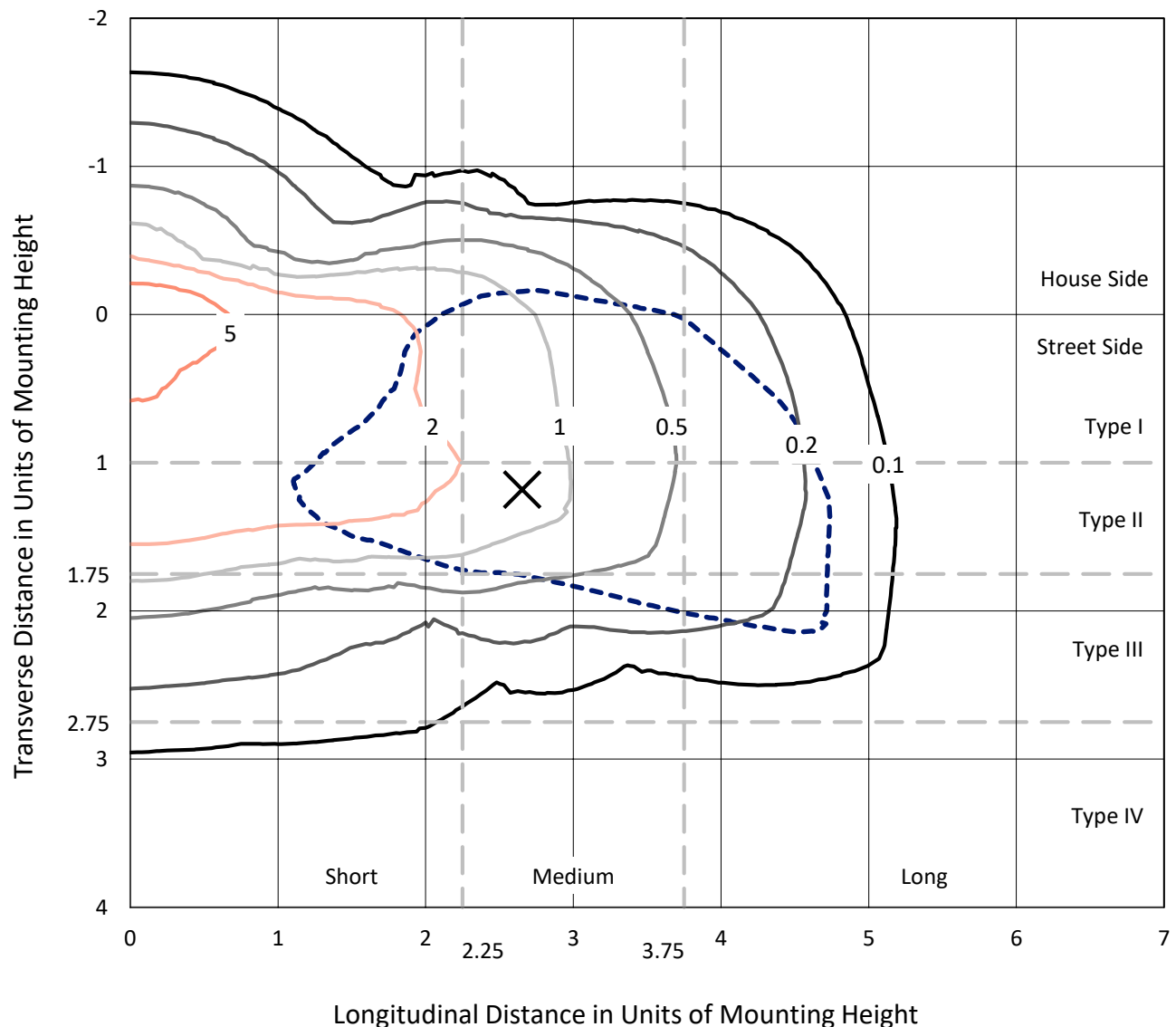
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

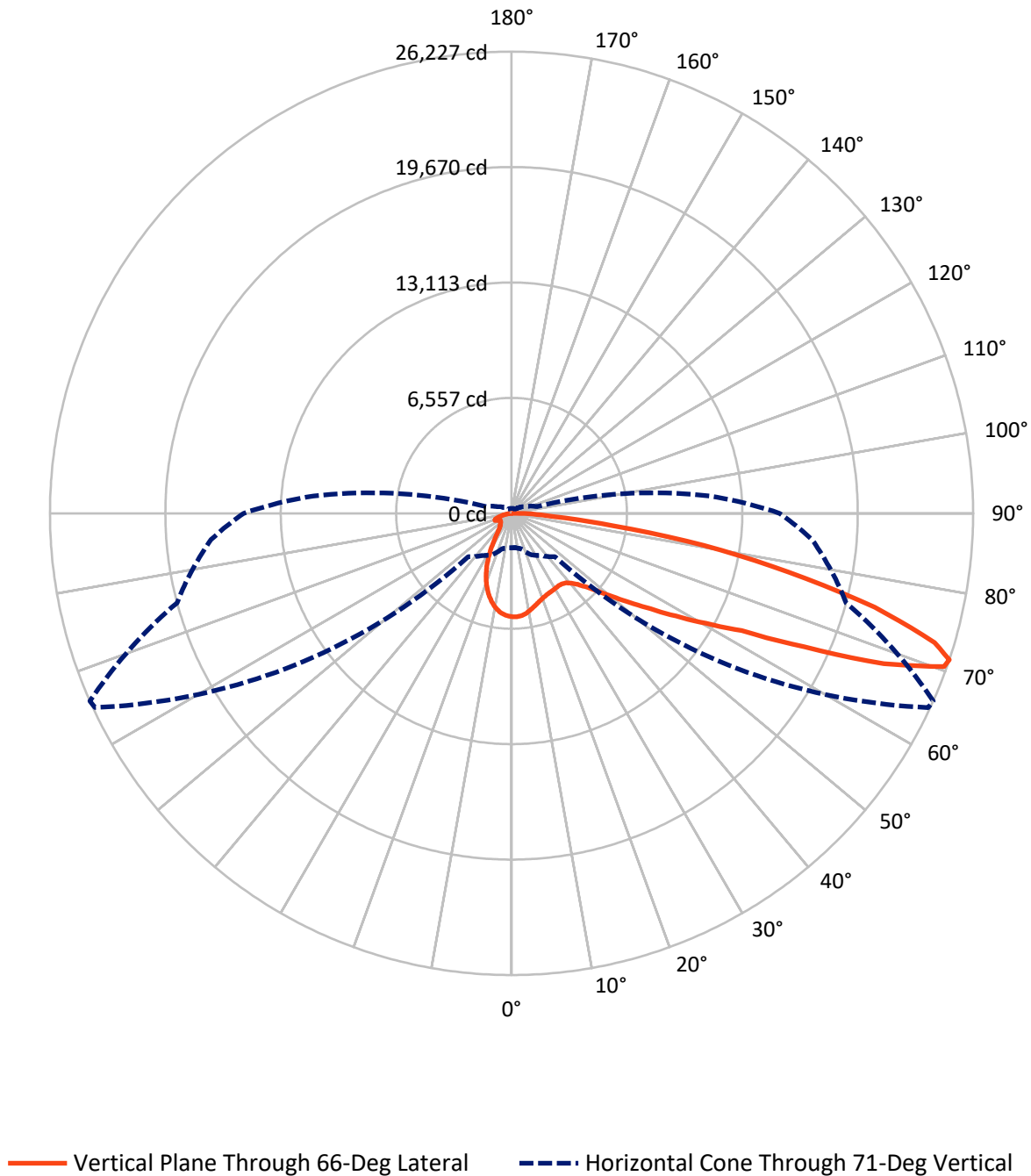
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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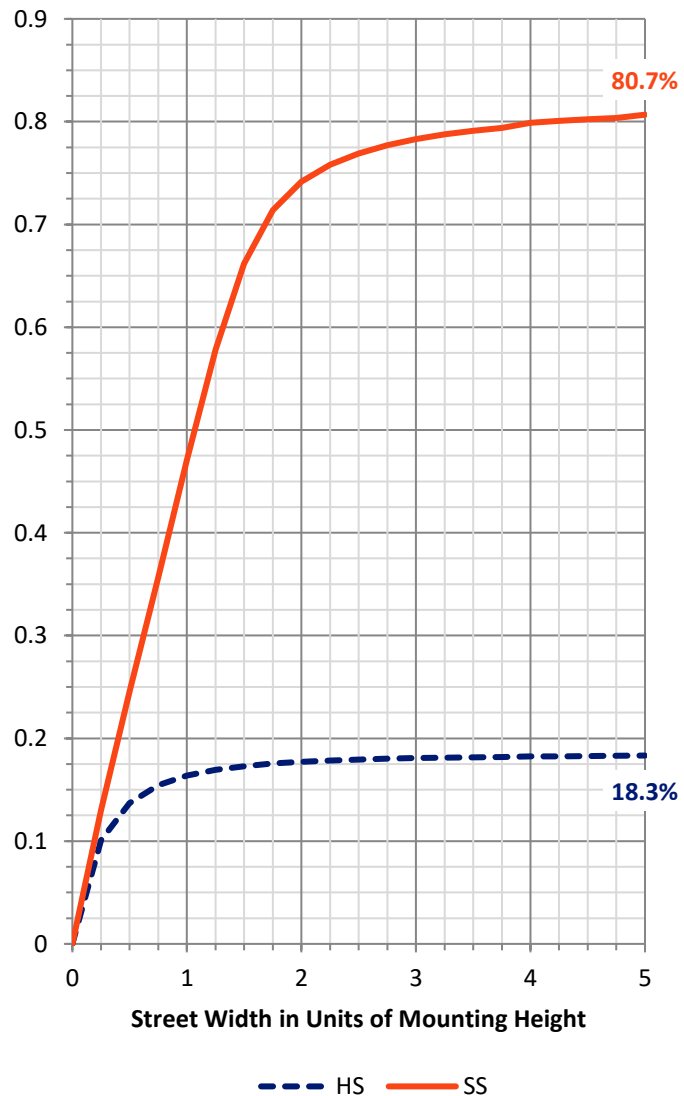
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4752.3	0.0	4752.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	20890.7	0.0	20890.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	25643.0	0.0	25643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.1	2.0
10°-20°	1240.2	4.8
20°-30°	1665.9	6.5
30°-40°	2191.4	8.5
40°-50°	3188.0	12.4
50°-60°	4979.9	19.4
60°-70°	6238.2	24.3
70°-80°	4758.3	18.6
80°-90°	864.1	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°	25643.0	100.0
0°-180°	25643.0	100.0

Coefficient of Utilization



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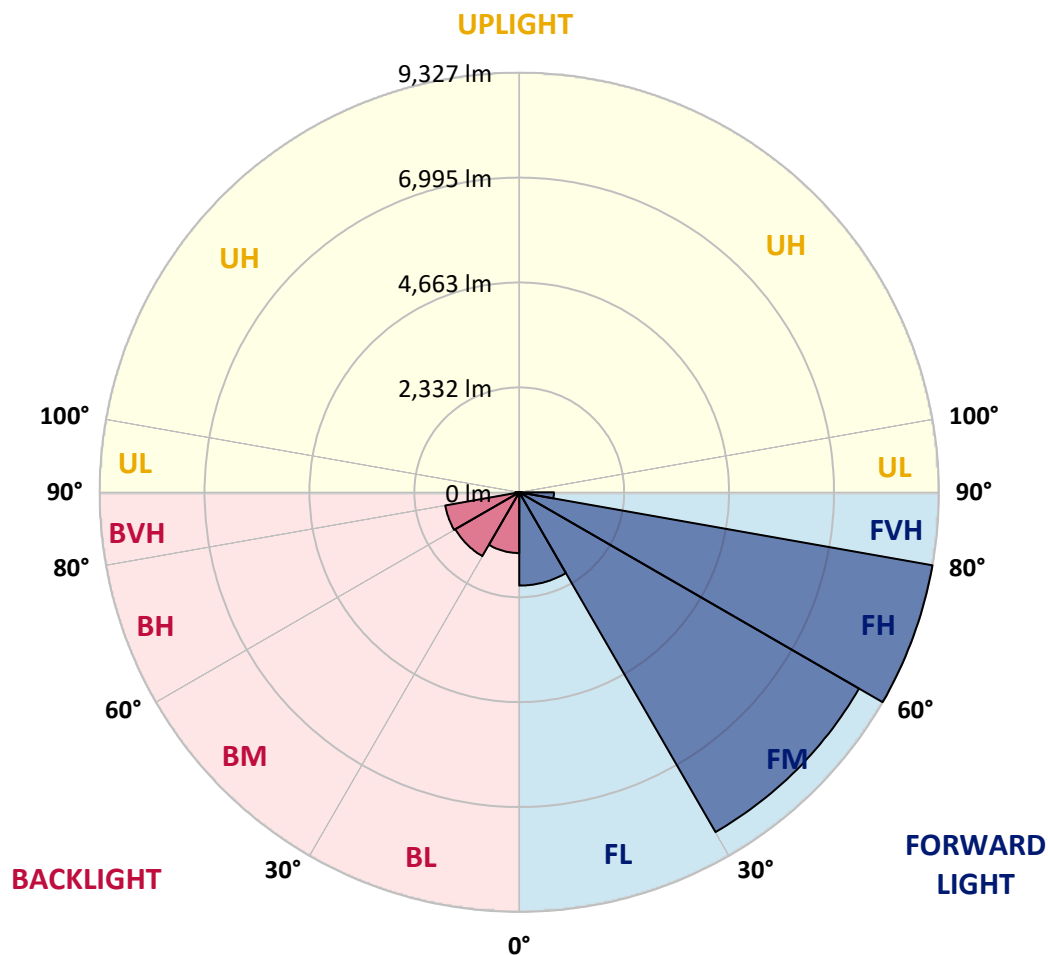
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2073.6	8.1			
FM	(30°-60°)	8719.9	34.0			
FH	(60°-80°)	9326.6	36.4			G4/12000
FVH	(80°-90°)	770.5	3.0			G5
BL	(0°-30°)	1349.5	5.3	B3/2500		
BM	(30°-60°)	1639.4	6.4	B2/2500		
BH	(60°-80°)	1669.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	93.5	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3
2.5°	5765.4	5756.6	5783.1	5810.6	5821.2	5838.9	5865.5	5880.5	5879.6	5882.3	5873.4
5°	5382.9	5371.4	5424.6	5467.9	5551.2	5645.0	5759.2	5840.7	5842.4	5888.5	5900.9
7.5°	5020.8	5012.9	5074.0	5143.9	5240.4	5383.8	5568.9	5744.2	5754.8	5879.6	5923.0
10°	4730.4	4728.7	4788.0	4864.1	4976.6	5136.8	5349.3	5606.1	5622.0	5837.1	5926.6
12.5°	4503.8	4507.3	4558.7	4645.4	4764.1	4931.4	5161.6	5451.1	5476.8	5769.8	5906.2
15°	4336.5	4350.6	4392.2	4479.9	4596.8	4766.7	5003.1	5307.7	5346.6	5694.6	5894.7
17.5°	4240.8	4256.8	4286.0	4358.6	4468.4	4632.2	4856.2	5189.9	5225.4	5637.0	5895.6
20°	4212.5	4225.8	4242.6	4286.9	4379.8	4528.6	4740.2	5083.7	5121.8	5591.0	5904.4
22.5°	4268.3	4278.0	4279.8	4276.3	4332.9	4454.2	4656.1	5005.8	5046.5	5560.9	5910.6
25°	4387.8	4401.1	4391.3	4358.6	4340.0	4414.4	4612.7	4954.4	4995.2	5538.8	5898.2
27.5°	4567.5	4569.3	4561.3	4518.8	4431.2	4418.8	4599.4	4924.3	4963.3	5513.1	5872.5
30°	4811.9	4823.4	4809.2	4751.7	4608.3	4489.6	4615.3	4895.1	4930.5	5480.3	5830.9
32.5°	5097.9	5126.2	5125.3	5065.1	4859.7	4648.1	4680.9	4877.4	4904.9	5445.8	5780.5
35°	5394.5	5433.4	5506.0	5480.3	5226.2	4898.7	4806.6	4905.7	4924.3	5441.4	5745.1
37.5°	5702.6	5741.5	5891.1	5960.2	5662.7	5257.2	5004.9	5005.8	5014.6	5495.4	5742.4
40°	6024.8	6066.4	6291.3	6471.0	6228.5	5711.4	5324.5	5214.7	5205.0	5628.2	5794.6
42.5°	6476.4	6513.5	6783.6	7012.9	6856.2	6293.1	5766.3	5537.0	5516.6	5888.5	5962.0
45°	7047.4	7079.3	7366.1	7611.4	7530.8	6957.1	6321.4	5980.6	5977.0	6322.3	6301.1
47.5°	7726.5	7751.3	8008.9	8246.2	8275.4	7721.2	7019.1	6664.9	6607.4	6917.3	6826.1
50°	8433.9	8461.3	8636.6	8891.6	9108.5	8743.7	7916.8	7503.4	7426.3	7702.6	7569.8
52.5°	8902.2	8938.5	9090.8	9414.0	10045.2	9864.6	8978.4	8519.7	8402.9	8654.3	8552.5
55°	8693.3	8774.7	9007.6	9525.5	10794.2	11576.9	10287.8	9705.2	9573.3	9782.3	9722.1
57.5°	7743.3	7854.8	8172.7	8972.2	10899.6	13085.5	12267.4	11101.4	11008.5	10948.3	10975.7
60°	6007.1	6114.2	6508.2	7550.3	10165.6	14186.9	15246.7	12822.6	12688.0	12118.7	12143.5
62.5°	4251.5	4197.5	4467.5	5229.8	8260.3	14316.2	18636.7	15124.5	14681.8	13354.7	13245.8
65°	3242.2	3229.8	3351.1	3593.6	5003.1	12769.4	20656.2	18993.5	18302.0	14808.4	14551.7
67.5°	2664.0	2641.9	2761.4	3114.7	3221.8	8238.2	20700.4	23482.2	22803.1	16618.1	16062.1
70°	2190.4	2165.6	2277.1	2733.1	2977.4	4178.0	17422.0	26110.8	26074.5	18909.4	17202.4
71°	1963.7	1946.0	2079.7	2586.1	2925.2	3482.1	15042.1	26117.9	26226.8	19684.9	17135.1
72.5°	1598.9	1605.1	1746.8	2301.9	2886.2	3074.8	11055.4	24900.5	25130.7	20424.2	16523.3
75°	1062.4	1067.7	1253.7	1770.7	2798.6	3008.4	6076.2	20894.3	21317.5	19981.5	15077.6
77.5°	713.6	711.8	838.4	1214.7	2438.3	3008.4	3562.7	15627.4	16092.2	15899.2	11623.8
80°	491.4	487.8	577.2	838.4	1846.0	3044.7	2754.3	10951.8	11092.6	8586.2	4724.2
82.5°	301.0	303.7	377.2	592.3	1256.3	2740.2	2600.3	5971.7	5818.5	2408.2	1180.2
85°	172.6	171.8	240.8	401.1	806.6	2312.5	2535.6	2570.2	2357.7	725.1	426.7
87.5°	62.0	66.4	129.3	222.2	462.2	1610.5	2151.4	1336.9	1205.0	327.6	193.0
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°	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3	5874.3
2.5°	5867.2	5872.5	5866.3	5830.9	5800.8	5752.1	5724.7	5686.6	5675.1	5669.8	5684.0
5°	5889.4	5891.1	5838.9	5745.9	5641.5	5518.4	5429.9	5321.0	5269.6	5247.5	5261.7
7.5°	5909.7	5901.8	5787.6	5609.6	5416.6	5202.3	5012.0	4837.6	4735.8	4694.1	4697.7
10°	5912.4	5878.7	5695.5	5420.1	5120.9	4806.6	4514.4	4245.3	4075.3	3964.6	3998.3
12.5°	5884.9	5828.3	5560.0	5174.9	4759.7	4331.1	3936.3	3532.6	3290.0	3177.5	3181.1
15°	5863.7	5761.0	5393.6	4886.3	4328.5	3761.0	3221.8	2747.2	2488.7	2373.6	2319.6
17.5°	5846.0	5688.4	5200.6	4561.3	3819.4	3099.6	2451.5	2028.3	1886.7	1853.0	1838.9
20°	5821.2	5611.4	4985.4	4185.1	3239.5	2359.5	1790.2	1581.2	1582.1	1621.1	1626.4
22.5°	5786.7	5523.7	4756.1	3762.7	2617.1	1718.5	1403.3	1343.1	1404.2	1478.5	1491.8
25°	5735.3	5420.1	4501.1	3296.2	1995.6	1320.9	1198.8	1196.1	1270.5	1348.4	1359.9
27.5°	5662.7	5284.7	4217.8	2795.1	1470.6	1122.6	1073.9	1092.5	1147.4	1204.1	1208.5
30°	5565.3	5127.1	3905.3	2266.5	1152.7	999.6	994.3	1011.1	1044.7	1084.6	1088.1
32.5°	5458.2	4966.8	3571.5	1754.8	987.2	933.2	938.5	946.4	962.4	978.3	981.9
35°	5360.8	4803.0	3229.8	1333.3	908.4	889.8	886.2	884.5	886.2	880.9	881.8
37.5°	5298.0	4667.6	2873.9	1061.5	863.2	851.7	841.1	827.8	812.8	803.9	805.7
40°	5274.9	4566.6	2513.5	917.2	826.0	818.1	797.7	769.4	751.7	746.4	746.4
42.5°	5336.9	4514.4	2165.6	844.6	795.0	781.8	748.1	715.4	702.1	701.2	700.3
45°	5526.4	4535.7	1834.5	804.8	766.7	741.0	696.8	669.3	660.5	662.2	661.4
47.5°	5866.3	4669.3	1551.1	778.2	738.4	704.7	655.2	633.0	622.4	622.4	623.3
50°	6444.5	4981.9	1325.4	756.1	714.5	671.1	625.1	597.6	583.4	582.6	582.6
52.5°	7286.5	5541.4	1184.6	737.5	687.9	641.0	595.0	560.4	543.6	540.1	538.3
55°	8341.8	6343.6	1145.6	725.1	652.5	608.2	558.7	524.1	505.5	497.6	496.7
57.5°	9522.0	7319.2	1222.7	710.1	616.2	569.3	518.8	486.1	466.6	456.8	456.0
60°	10716.3	8384.3	1537.0	688.8	586.1	526.8	478.1	448.0	428.5	417.9	416.1
62.5°	11912.4	9506.9	2178.9	687.0	564.9	486.1	436.5	410.8	392.2	380.7	378.0
65°	13261.7	10735.8	2908.4	734.0	557.8	448.9	394.0	373.6	357.7	347.1	346.2
67.5°	14811.1	12123.1	2838.4	830.5	581.7	415.2	354.1	338.2	326.7	317.8	317.0
70°	15537.9	11906.2	1764.5	898.6	615.3	382.5	316.1	304.6	295.7	289.5	286.9
71°	15233.4	11305.1	1479.4	890.7	611.8	368.3	301.0	292.2	283.3	278.0	275.3
72.5°	14402.9	10309.9	1234.2	828.7	571.9	342.6	281.5	272.7	264.7	258.5	256.8
75°	12924.4	9207.7	988.1	662.2	456.0	289.5	247.0	237.3	231.1	227.5	224.0
77.5°	9500.7	6571.1	764.1	523.2	335.5	236.4	210.7	203.6	197.4	192.1	189.5
80°	3639.7	2545.4	514.4	390.4	246.1	186.8	170.0	166.4	160.2	156.7	156.7
82.5°	980.1	760.5	274.5	236.4	164.7	136.3	130.1	128.4	123.1	116.0	116.9
85°	396.6	335.5	154.1	130.1	100.9	80.6	87.6	88.5	82.3	73.5	74.4
87.5°	174.4	142.5	85.9	57.5	44.3	31.0	39.8	39.8	36.3	30.1	27.4
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)