

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: P319600

Luminaire Tested: **GAN-SA6B-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28587 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

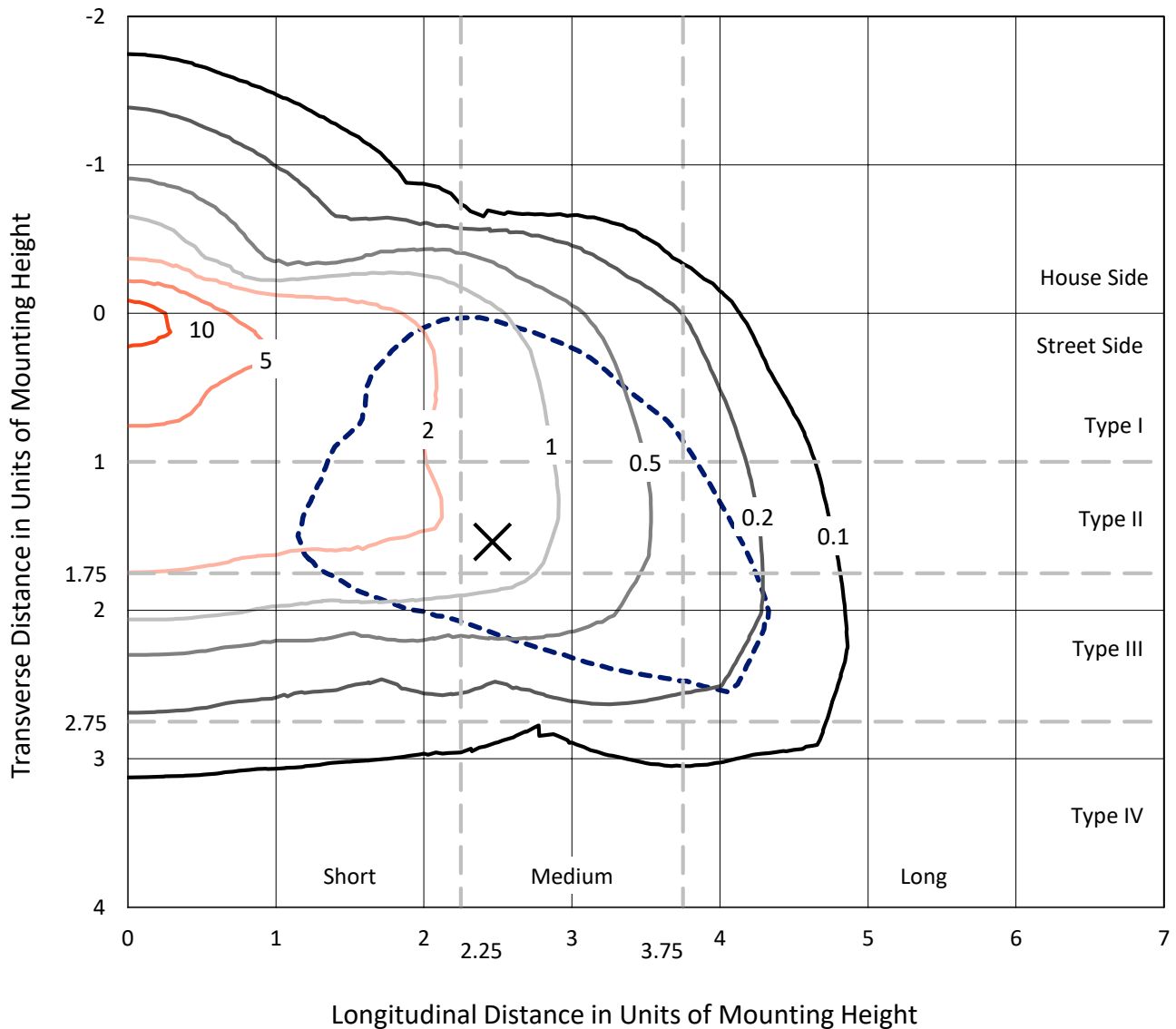
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

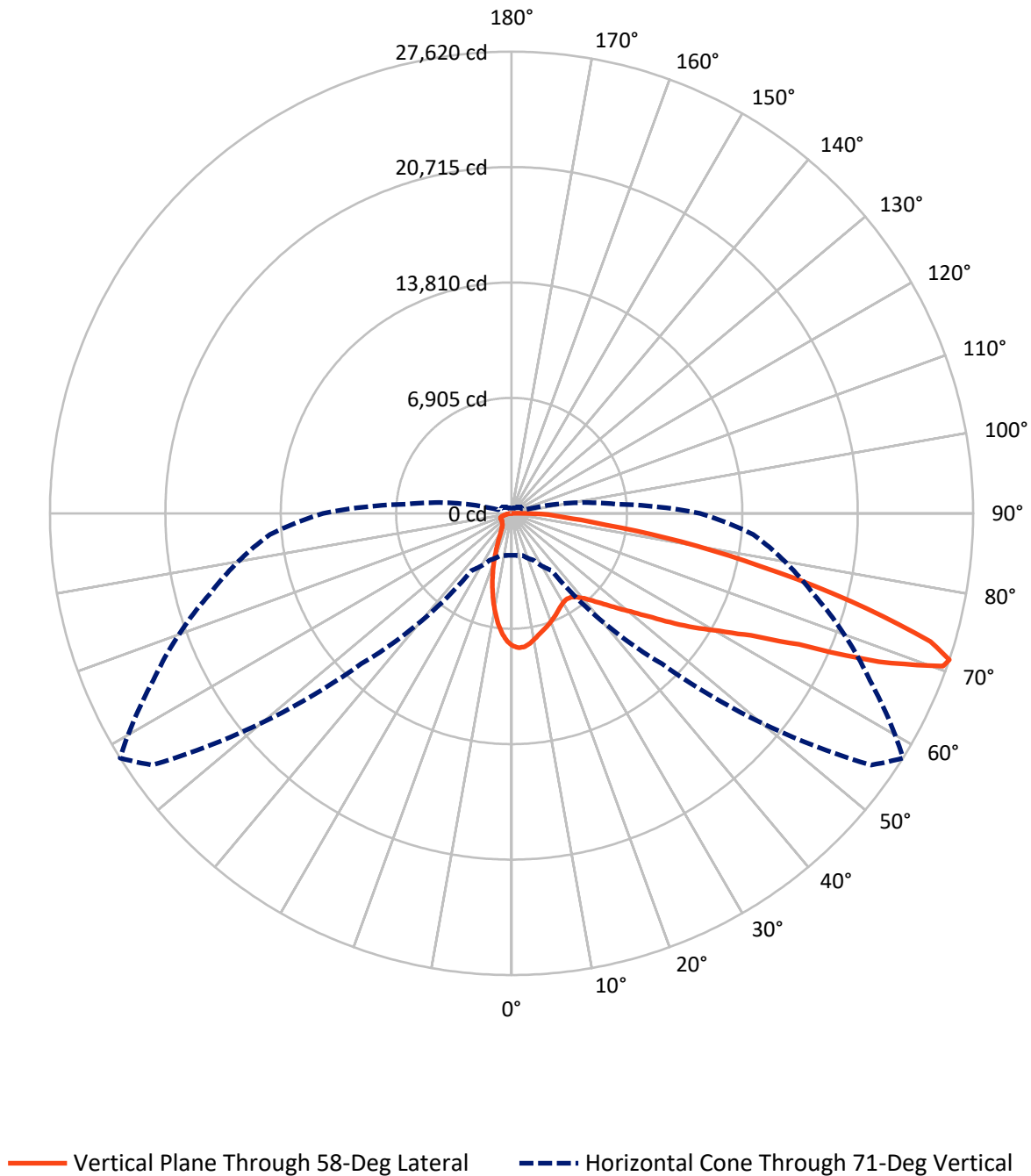
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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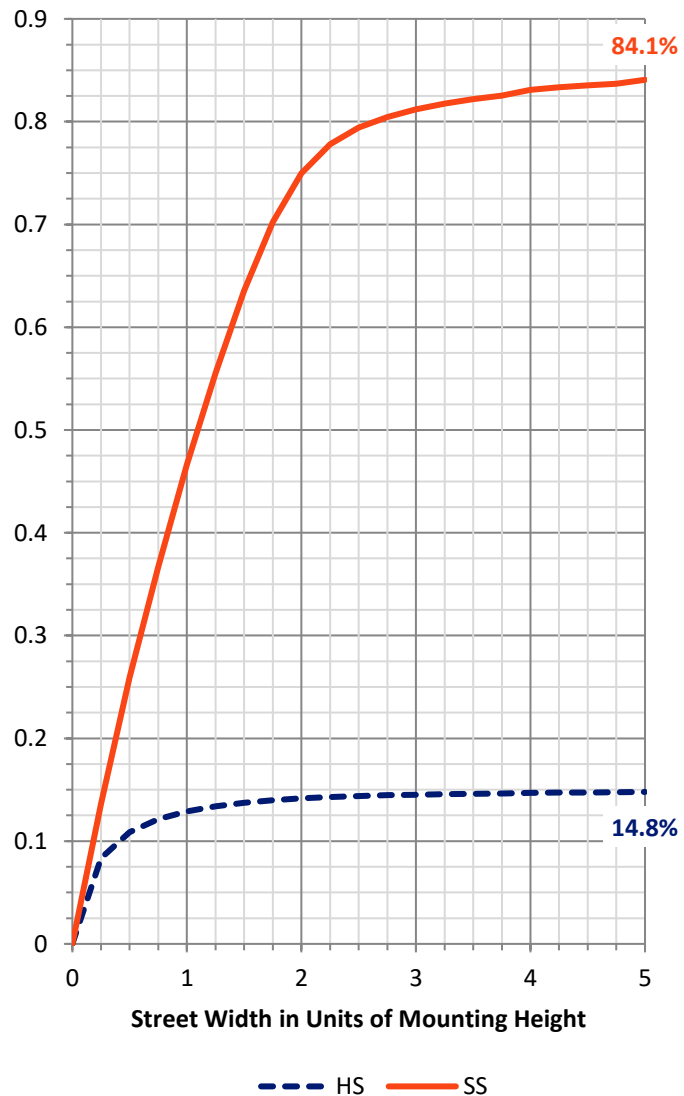
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4274.0	0.0	4274.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	24313.1	0.0	24313.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	28587.0	0.0	28587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.3	2.4
10°-20°	1519.4	5.3
20°-30°	1931.0	6.8
30°-40°	2459.7	8.6
40°-50°	3488.0	12.2
50°-60°	5397.8	18.9
60°-70°	7348.4	25.7
70°-80°	4902.3	17.1
80°-90°	857.1	3.0
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°	28587.0	100.0
0°-180°	28587.0	100.0

Coefficient of Utilization



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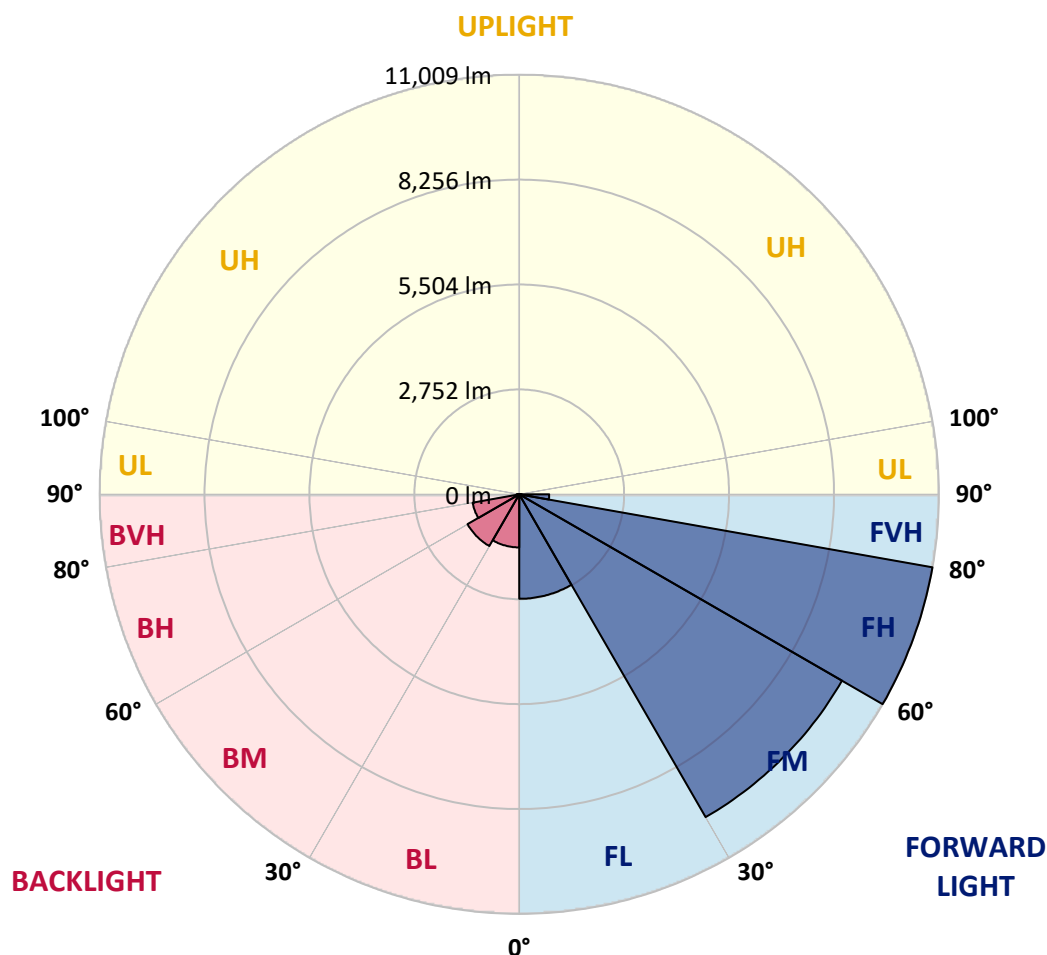
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2740.5	9.6			
FM	(30°-60°)	9778.1	34.2			
FH	(60°-80°)	11008.5	38.5			G4/12000
FVH	(80°-90°)	785.9	2.7			G5
BL	(0°-30°)	1393.2	4.9	B3/2500		
BM	(30°-60°)	1567.4	5.5	B2/2500		
BH	(60°-80°)	1242.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	71.2	0.2			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°	58°	65°	75°	85°
0°	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5
2.5°	8130.6	8119.7	8123.7	8115.7	8096.8	8077.8	8050.0	8054.9	8016.1	7958.4	7886.7
5°	7977.3	7973.3	8003.2	8020.1	8034.0	8023.1	8015.1	8025.1	7968.3	7888.6	7764.2
7.5°	7655.6	7611.8	7649.7	7706.4	7760.2	7801.0	7854.8	7861.8	7825.9	7742.3	7579.0
10°	7198.6	7156.7	7212.5	7301.1	7408.7	7506.3	7614.8	7634.7	7641.7	7566.0	7367.8
12.5°	6724.6	6692.7	6748.5	6872.9	7051.2	7201.5	7374.8	7404.7	7466.4	7415.6	7172.7
15°	6300.4	6288.4	6356.1	6478.6	6683.7	6913.8	7163.7	7218.5	7323.0	7306.1	7020.3
17.5°	5933.9	5930.9	5982.7	6111.2	6338.2	6629.0	6953.6	7046.2	7201.5	7221.5	6894.8
20°	5661.1	5655.1	5690.9	5785.5	6019.5	6349.2	6726.6	6854.0	7078.1	7147.8	6765.4
22.5°	5514.7	5513.7	5514.7	5559.5	5750.7	6057.4	6505.5	6660.8	6957.6	7089.0	6622.0
25°	5489.8	5486.8	5464.9	5459.9	5568.5	5813.4	6286.4	6457.7	6843.1	7048.2	6485.6
27.5°	5554.5	5558.5	5529.6	5482.8	5504.7	5653.1	6096.2	6279.4	6751.5	7040.2	6391.0
30°	5688.9	5687.0	5662.1	5613.3	5570.4	5593.3	5960.8	6144.0	6689.7	7075.1	6326.3
32.5°	5837.3	5848.3	5843.3	5816.4	5752.7	5661.1	5920.0	6099.2	6671.8	7158.7	6298.4
35°	6015.6	6027.5	6063.4	6084.3	6009.6	5862.2	6007.6	6162.9	6723.6	7316.1	6343.2
37.5°	6184.8	6215.7	6316.3	6404.9	6341.2	6176.9	6240.6	6351.1	6883.9	7564.0	6463.7
40°	6380.0	6406.9	6571.2	6759.4	6749.5	6579.2	6616.0	6689.7	7166.7	7919.5	6681.7
42.5°	6572.2	6626.0	6864.0	7130.8	7207.5	7057.2	7115.9	7154.7	7565.0	8390.5	7062.1
45°	6828.1	6885.9	7216.5	7538.1	7717.4	7632.7	7726.3	7741.3	8065.9	9031.8	7614.8
47.5°	7215.5	7281.2	7666.6	8004.2	8278.0	8287.0	8441.3	8435.3	8691.3	9765.7	8310.9
50°	7818.9	7913.5	8229.2	8544.9	8877.5	9062.7	9268.8	9239.9	9441.1	10547.4	9112.5
52.5°	8609.6	8653.4	8887.4	9120.4	9533.7	9948.9	10244.7	10218.8	10291.5	11351.0	10022.6
55°	9429.1	9462.0	9558.6	9686.0	10241.7	10918.8	11544.2	11503.4	11319.1	12185.5	10921.8
57.5°	10166.0	10232.7	10299.5	10352.2	10954.7	11932.5	12873.6	12876.6	12434.4	13085.7	11850.9
60°	10280.5	10339.3	10780.4	11196.7	12174.5	13284.8	14296.6	14266.7	13588.5	14062.5	12886.5
62.5°	9087.6	9220.0	9956.9	11064.2	13349.6	15758.4	16111.9	16075.0	14968.7	15266.4	14092.4
65°	6512.5	6662.8	7552.1	9216.0	12780.0	18483.8	19388.0	18892.1	16850.8	16747.2	15504.4
67.5°	3757.1	3793.0	4178.3	5514.7	9730.9	18626.2	24385.9	23691.8	19773.4	18427.1	16195.5
70°	2778.3	2777.3	2868.9	3393.7	5265.7	15201.7	26762.8	27385.2	22850.4	18979.7	15218.7
71°	2512.4	2515.4	2617.9	3088.9	4170.4	12724.2	26258.0	27620.2	23661.0	18706.9	14511.6
72.5°	2148.9	2158.9	2301.3	2770.3	3508.2	8774.9	24083.2	26210.2	24045.3	18033.7	13405.3
75°	1630.1	1653.0	1850.2	2335.1	3206.4	4450.2	17675.3	20929.5	21360.7	15912.7	9960.9
77.5°	1163.1	1189.0	1412.0	1963.7	3048.1	3353.8	11837.0	15266.4	15719.5	10197.9	4493.0
80°	734.9	765.8	934.1	1562.4	2863.9	3184.5	7438.5	10261.6	8571.8	3263.2	1143.2
82.5°	431.2	455.1	579.5	1020.7	2339.1	3067.0	4376.5	5687.9	3335.9	985.8	519.8
85°	249.9	260.9	361.5	650.3	1698.8	2894.8	3215.4	3179.6	1447.9	482.0	246.0
87.5°	116.5	129.5	214.1	339.6	943.0	2098.1	2541.3	2195.7	900.2	226.0	115.5
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°	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5	7920.5
2.5°	7851.8	7834.9	7764.2	7701.4	7635.7	7550.1	7455.5	7443.5	7385.8	7396.7	7376.8
5°	7696.5	7653.6	7483.4	7329.0	7146.8	6983.5	6806.2	6724.6	6607.1	6599.1	6569.2
7.5°	7474.4	7394.7	7130.8	6838.1	6545.3	6266.5	5990.7	5809.4	5624.2	5545.6	5538.6
10°	7224.5	7089.0	6700.7	6267.5	5845.3	5438.0	5043.7	4751.9	4489.0	4364.5	4359.6
12.5°	6987.5	6787.3	6254.6	5665.0	5087.5	4559.7	4019.0	3635.6	3306.0	3195.5	3148.7
15°	6786.3	6504.5	5820.4	5066.6	4365.5	3632.6	3017.2	2613.9	2309.2	2203.7	2183.8
17.5°	6591.1	6228.7	5375.3	4462.1	3614.7	2809.1	2192.7	1893.0	1730.7	1687.9	1686.9
20°	6397.0	5944.9	4910.2	3843.7	2888.8	2101.1	1685.9	1551.4	1496.7	1491.7	1483.7
22.5°	6176.9	5644.1	4421.3	3223.4	2254.5	1652.0	1432.9	1379.2	1372.2	1390.1	1390.1
25°	5970.8	5345.4	3925.4	2615.9	1753.6	1378.2	1279.6	1268.6	1287.6	1319.4	1322.4
27.5°	5778.6	5057.6	3441.4	2076.2	1405.1	1213.9	1173.0	1186.0	1219.8	1256.7	1257.7
30°	5620.2	4785.8	2971.4	1636.1	1187.0	1091.4	1084.4	1110.3	1147.1	1176.0	1183.0
32.5°	5497.8	4553.7	2517.4	1315.4	1044.6	999.8	1005.7	1027.7	1050.6	1066.5	1077.4
35°	5441.0	4354.6	2098.1	1109.3	954.0	929.1	937.0	949.0	958.9	970.9	979.9
37.5°	5451.0	4200.2	1723.7	980.9	893.2	880.3	880.3	880.3	880.3	886.3	887.2
40°	5543.6	4111.6	1419.0	899.2	852.4	838.5	827.5	817.5	809.6	813.6	811.6
42.5°	5780.6	4103.6	1195.9	847.4	819.5	796.6	774.7	760.8	750.8	754.8	756.8
45°	6182.9	4203.2	1045.6	810.6	788.7	753.8	725.9	711.0	704.0	717.0	719.0
47.5°	6703.7	4420.3	954.0	783.7	759.8	714.0	684.1	670.2	672.2	691.1	696.1
50°	7374.8	4772.8	910.2	766.8	739.9	680.1	649.3	637.3	643.3	670.2	676.1
52.5°	8111.7	5280.7	915.1	761.8	726.9	655.2	622.4	608.4	618.4	643.3	648.3
55°	8962.1	5891.1	997.8	768.7	708.0	639.3	600.5	576.6	584.5	607.4	611.4
57.5°	9907.1	6590.1	1164.1	766.8	684.1	624.4	577.6	541.7	547.7	561.6	565.6
60°	10891.0	7434.6	1422.0	772.7	673.2	606.4	546.7	501.9	499.9	511.8	513.8
62.5°	12072.0	8411.4	1716.7	776.7	680.1	583.5	505.9	462.0	456.1	459.1	461.1
65°	13288.8	9118.4	1606.2	760.8	702.0	564.6	470.0	423.2	412.3	410.3	411.3
67.5°	13326.7	8360.6	1126.2	728.9	711.0	554.7	443.1	390.3	372.4	365.5	364.5
70°	11951.5	6792.3	877.3	695.1	675.1	538.7	418.2	363.5	336.6	325.6	324.6
71°	11280.3	6252.6	831.5	678.1	648.3	522.8	407.3	351.5	323.6	311.7	309.7
72.5°	10227.8	5605.3	775.7	651.2	596.5	482.0	386.4	334.6	305.7	291.8	288.8
75°	7340.0	3665.5	666.2	580.5	493.9	384.4	338.6	300.7	275.8	258.9	256.9
77.5°	2828.0	1458.8	503.9	483.0	378.4	300.7	278.8	259.9	242.0	225.0	224.1
80°	874.3	652.2	367.4	363.5	273.8	224.1	217.1	212.1	205.1	187.2	183.2
82.5°	467.0	374.4	252.9	235.0	179.2	149.4	157.3	159.3	160.3	141.4	139.4
85°	223.1	198.2	142.4	133.4	104.6	83.6	96.6	104.6	105.6	86.6	80.7
87.5°	106.5	103.6	66.7	50.8	38.8	27.9	33.9	41.8	45.8	32.9	28.9
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)