

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: P323439

Luminaire Tested: **GAN-SA5B-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20405 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

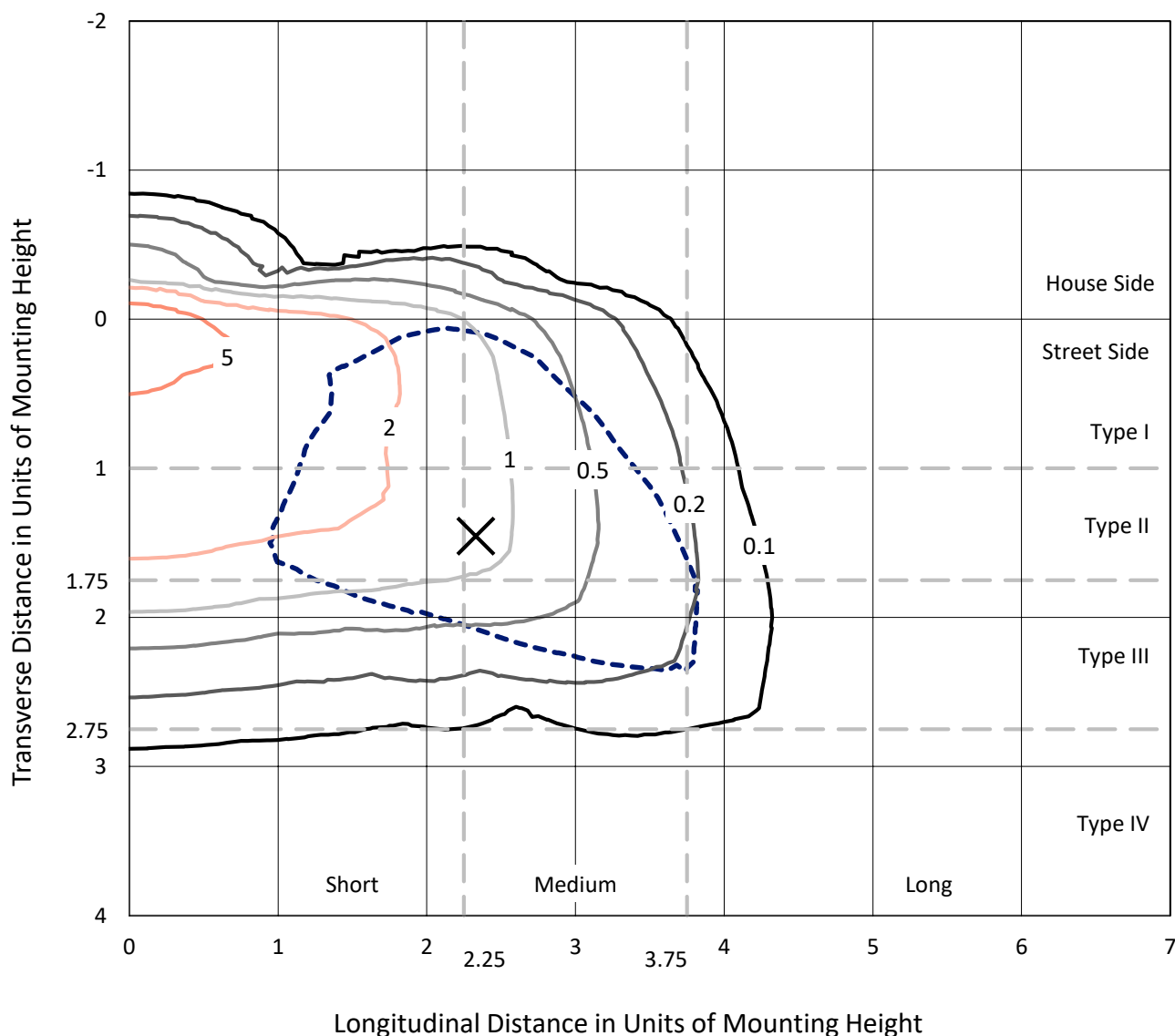
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

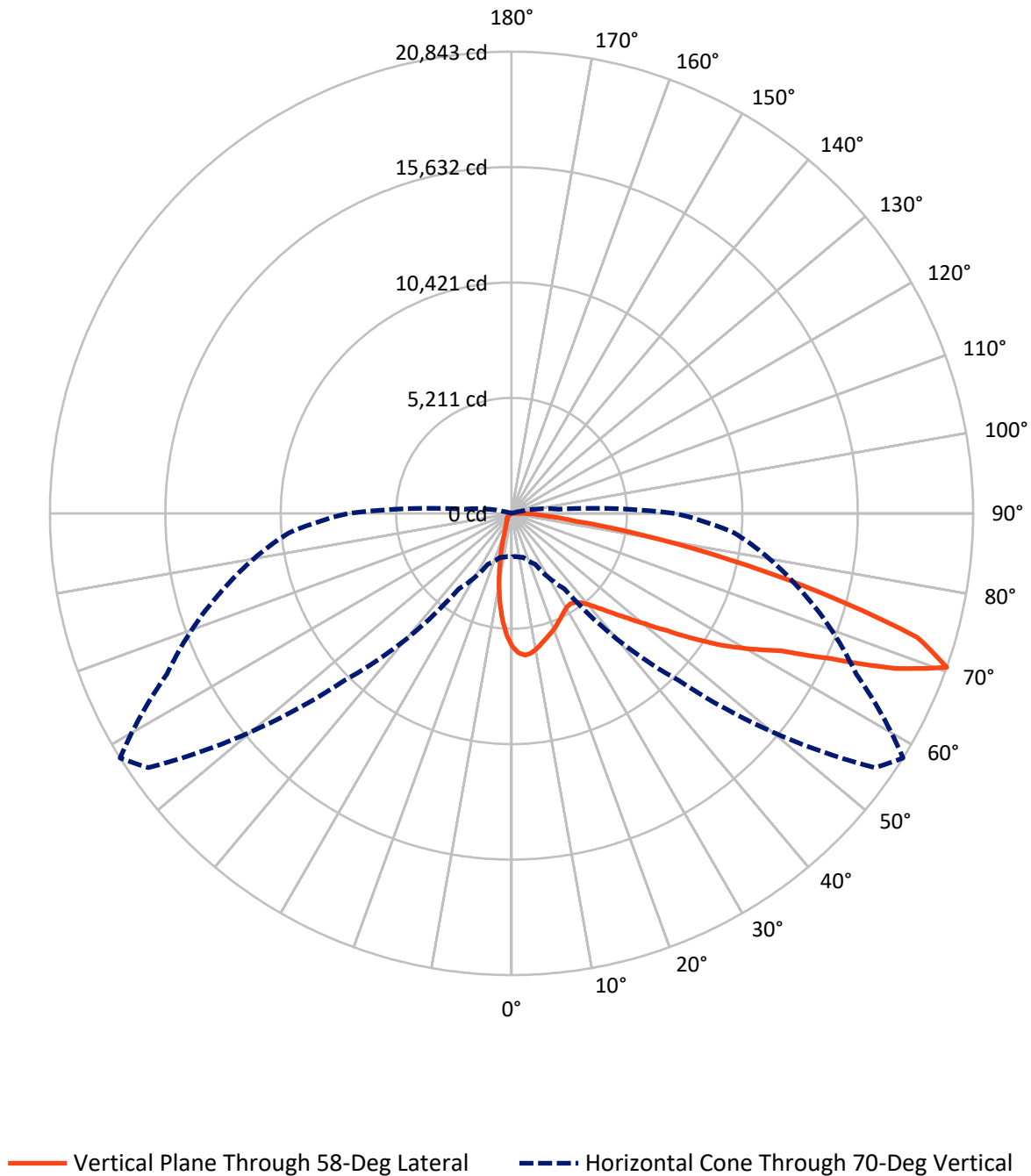
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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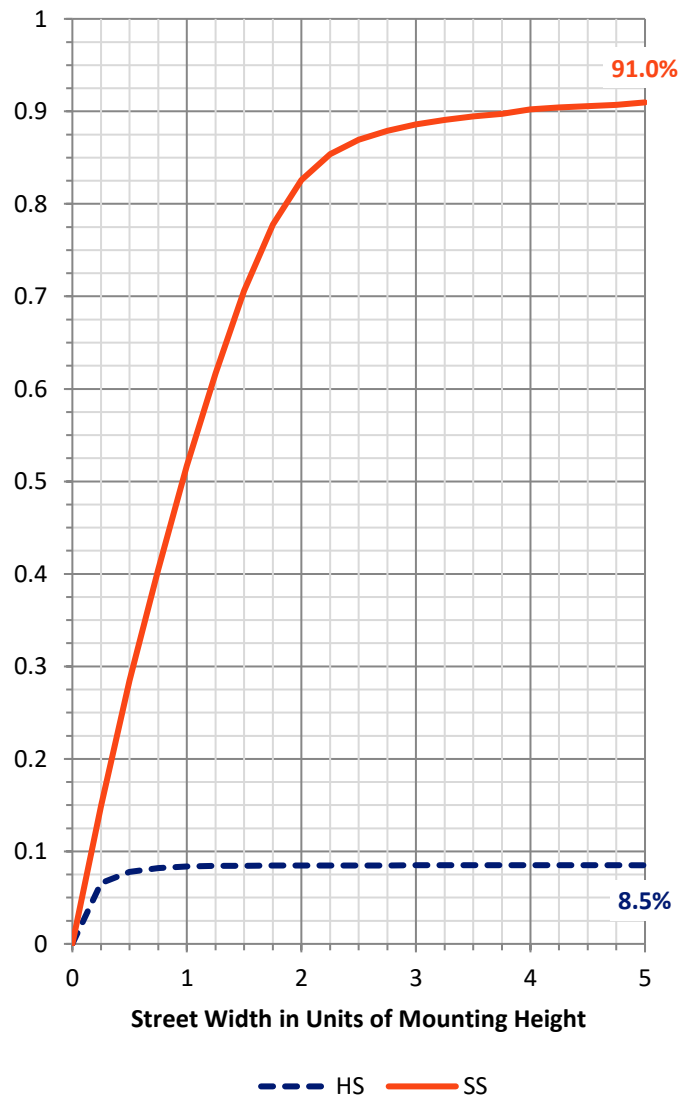
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1746.2	0.0	1746.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	18658.8	0.0	18658.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	20405.0	0.0	20405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.9	2.4
10°-20°	1034.5	5.1
20°-30°	1360.0	6.7
30°-40°	1801.1	8.8
40°-50°	2692.2	13.2
50°-60°	4312.7	21.1
60°-70°	5436.2	26.6
70°-80°	2932.2	14.4
80°-90°	343.2	1.7
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°	20405.0	100.0
0°-180°	20405.0	100.0

Coefficient of Utilization



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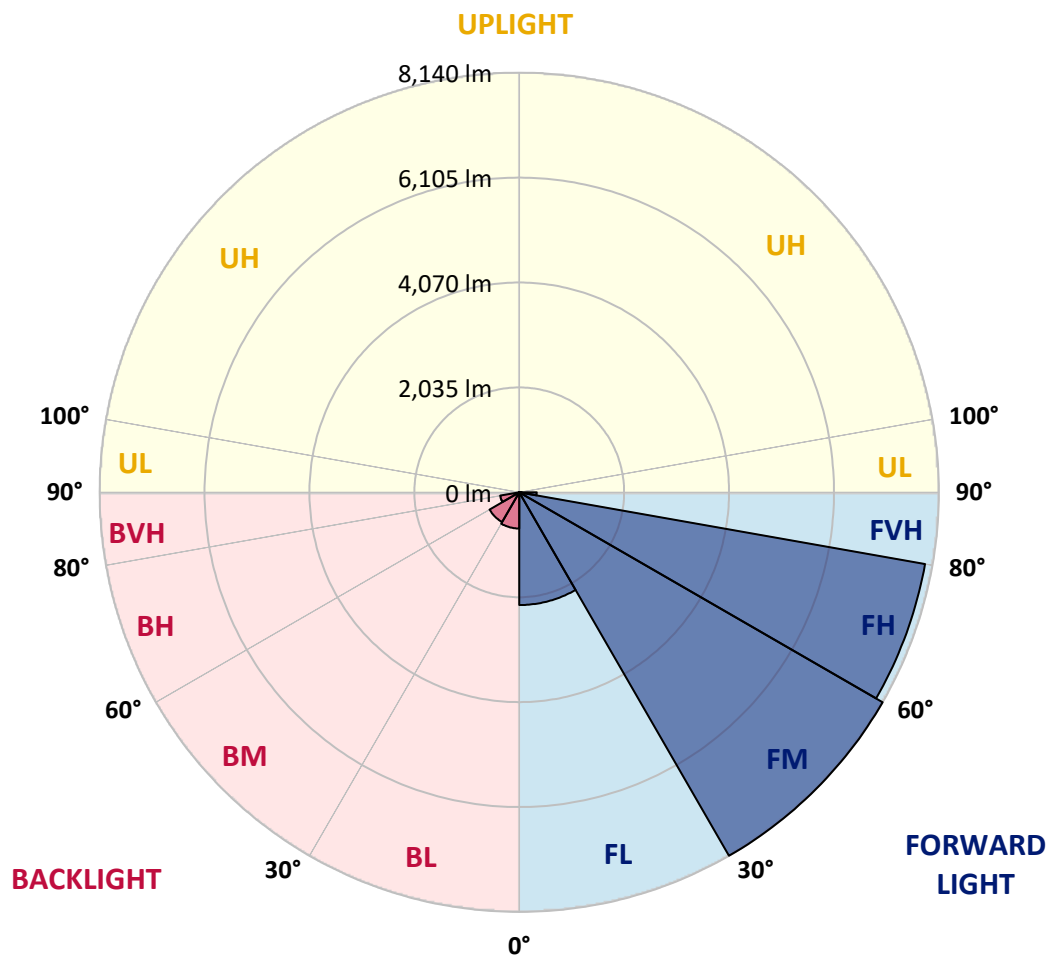
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2185.8	10.7			
FM	(30°-60°)	8139.9	39.9			
FH	(60°-80°)	7992.9	39.2			G4/12000
FVH	(80°-90°)	340.3	1.7			G3/500
BL	(0°-30°)	701.6	3.4	B2/1000		
BM	(30°-60°)	666.2	3.3	B1/1000		
BH	(60°-80°)	375.5	1.8	B1/500		G1/500
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5
2.5°	6527.3	6511.2	6505.2	6495.0	6456.0	6417.8	6342.3	6321.1	6273.6	6160.8	6041.1
5°	6532.4	6531.5	6549.4	6545.1	6531.5	6513.7	6459.4	6431.4	6350.8	6189.6	5970.7
7.5°	6217.6	6233.7	6273.6	6305.8	6343.2	6391.5	6398.3	6371.2	6305.0	6131.1	5840.9
10°	5795.1	5820.5	5876.5	5940.1	6037.7	6134.4	6221.0	6217.6	6194.7	6023.3	5684.8
12.5°	5371.7	5401.4	5465.9	5560.0	5698.3	5856.1	6010.6	6031.8	6070.0	5926.6	5540.5
15°	5000.9	5026.3	5090.0	5205.4	5376.8	5588.9	5815.4	5854.5	5952.9	5851.1	5420.0
17.5°	4686.1	4702.2	4748.9	4877.0	5075.6	5332.6	5627.1	5703.4	5850.2	5791.7	5315.7
20°	4466.4	4468.9	4499.4	4589.4	4787.9	5075.6	5431.9	5541.4	5741.6	5740.8	5207.9
22.5°	4357.7	4349.3	4355.2	4407.0	4552.9	4830.3	5236.8	5366.6	5644.0	5697.5	5098.5
25°	4337.4	4330.6	4313.6	4320.4	4408.7	4615.7	5039.9	5190.1	5558.3	5671.2	5003.4
27.5°	4401.0	4407.8	4379.0	4348.4	4355.2	4476.5	4865.1	5039.1	5488.8	5671.2	4936.4
30°	4529.1	4532.5	4511.3	4471.4	4418.0	4437.5	4743.8	4917.7	5454.0	5710.2	4894.0
32.5°	4670.8	4689.5	4687.0	4654.7	4578.4	4499.4	4715.0	4873.6	5451.4	5796.8	4889.7
35°	4846.5	4867.7	4903.3	4896.5	4816.8	4687.0	4813.4	4938.1	5501.5	5939.3	4935.6
37.5°	5033.1	5065.4	5141.7	5178.2	5126.5	4979.7	5034.0	5123.1	5635.5	6170.1	5051.8
40°	5213.9	5250.3	5389.5	5532.9	5493.9	5342.8	5368.3	5439.5	5874.0	6501.8	5272.4
42.5°	5391.2	5445.5	5650.0	5885.8	5932.5	5812.0	5825.6	5882.5	6227.8	6958.3	5633.0
45°	5603.3	5664.4	5967.3	6258.3	6383.0	6330.4	6388.1	6425.5	6690.2	7561.6	6119.2
47.5°	5914.7	5985.1	6356.7	6688.5	6907.4	6941.3	7057.6	7082.2	7274.8	8264.1	6753.0
50°	6522.2	6541.7	6877.7	7178.9	7494.5	7698.2	7830.5	7849.2	7982.4	9032.0	7544.6
52.5°	7286.7	7299.4	7489.5	7691.4	8050.3	8466.0	8775.7	8802.0	8830.0	9780.3	8326.0
55°	8046.1	8044.4	8169.9	8288.7	8699.4	9303.5	9975.5	9991.6	9790.5	10490.5	8923.4
57.5°	8520.3	8566.2	8757.1	8909.8	9483.4	10258.0	11190.5	11249.9	10799.3	11016.6	9513.9
60°	8369.3	8391.4	8814.8	9379.9	10460.0	11614.7	12419.9	12435.2	11557.9	11541.8	10260.6
62.5°	7130.6	7142.4	7807.6	8972.6	10954.6	13374.5	13903.1	13654.4	12430.1	12270.6	11154.0
65°	4887.2	4964.4	5520.2	6960.0	10045.9	14478.3	16199.0	15787.5	13759.7	13321.0	11961.7
67.5°	2878.0	2861.9	3136.8	4197.4	7378.3	13745.2	19103.3	18694.4	15572.8	14024.4	11725.0
70°	1965.9	1954.9	2060.1	2541.2	4165.1	10662.7	20017.1	20842.7	17173.9	13550.9	10090.9
72.5°	1403.4	1409.3	1564.6	1974.4	2615.0	6212.5	17213.8	19167.8	16672.5	11813.3	7670.2
75°	952.8	969.0	1191.3	1619.7	2292.6	3160.6	12215.4	14570.8	13576.4	8585.7	4408.7
77.5°	512.5	530.3	792.5	1304.9	2072.8	2195.8	7857.7	10028.1	8528.0	3859.7	1277.8
80°	213.8	224.0	370.8	948.6	1791.1	1928.6	4623.3	6081.0	3634.0	761.1	285.1
82.5°	92.5	97.6	154.4	565.9	1338.9	1628.2	2447.8	2925.5	1101.3	167.1	143.4
85°	17.8	18.7	63.6	299.5	854.4	918.9	1586.6	1555.2	494.7	72.1	104.4
87.5°	0.0	0.0	15.3	94.2	251.1	500.6	968.1	956.2	168.0	34.8	39.0
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°	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5	6027.5
2.5°	5980.0	5921.5	5798.5	5646.6	5530.3	5402.2	5300.4	5171.4	5115.4	5118.0	5087.4
5°	5846.0	5725.5	5453.1	5109.5	4844.8	4571.6	4336.5	4102.4	3964.1	3919.1	3876.7
7.5°	5654.2	5463.3	5028.9	4499.4	4051.5	3613.6	3232.7	2897.5	2685.4	2581.9	2543.7
10°	5437.9	5169.7	4541.0	3843.6	3203.8	2611.6	2117.8	1688.5	1517.1	1400.8	1371.1
12.5°	5247.8	4884.6	4064.2	3170.7	2411.4	1696.9	1226.0	958.8	842.5	796.7	789.1
15°	5068.8	4618.2	3605.2	2561.5	1669.8	1044.5	779.7	689.0	661.8	654.2	654.2
17.5°	4899.9	4364.5	3156.3	1961.7	1104.7	732.2	645.7	625.3	616.8	616.0	616.8
20°	4723.4	4110.8	2715.1	1437.3	771.3	620.2	596.5	585.4	582.9	582.9	582.9
22.5°	4554.6	3857.2	2285.8	1026.7	618.5	565.9	554.1	546.4	543.9	543.0	541.3
25°	4392.5	3616.2	1866.6	725.4	543.0	518.4	508.2	498.1	490.4	486.2	483.6
27.5°	4259.3	3401.5	1476.3	582.1	490.4	469.2	456.5	441.2	422.5	414.1	410.7
30°	4153.3	3205.5	1137.8	491.3	441.2	420.0	400.5	374.2	347.0	332.6	331.8
32.5°	4070.1	3012.9	863.7	434.4	397.1	370.8	342.8	309.7	278.3	262.2	261.3
35°	4029.4	2843.2	660.1	392.8	358.1	325.0	290.2	253.7	223.1	207.9	206.2
37.5°	4056.5	2699.8	515.0	358.1	325.0	286.8	246.1	207.9	180.7	167.1	166.3
40°	4155.8	2608.2	418.3	328.4	297.0	250.3	206.2	170.5	147.6	136.6	135.8
42.5°	4367.1	2574.3	357.2	303.8	269.8	216.4	171.4	140.8	119.6	112.0	110.3
45°	4720.0	2624.3	315.6	280.0	241.8	184.1	141.7	115.4	96.7	90.8	89.9
47.5°	5190.1	2755.8	285.9	257.1	216.4	155.3	117.9	93.3	78.9	73.0	72.1
50°	5795.9	2964.6	261.3	234.2	192.6	131.5	97.6	73.8	61.1	56.8	56.8
52.5°	6455.2	3213.2	239.3	213.0	168.8	109.5	78.9	56.8	48.4	43.3	43.3
55°	6999.9	3430.4	215.5	196.8	140.0	90.8	60.2	43.3	35.6	33.1	33.1
57.5°	7543.8	3662.0	188.4	168.8	112.0	73.8	45.8	32.2	26.3	24.6	24.6
60°	8248.8	3945.4	162.1	137.5	88.2	56.0	33.9	22.9	19.5	18.7	18.7
62.5°	9024.3	4111.7	138.3	110.3	68.7	41.6	24.6	15.3	14.4	14.4	13.6
65°	9498.6	3876.7	116.2	88.2	53.5	31.4	16.1	11.0	12.7	11.9	10.2
67.5°	8893.7	3035.0	95.0	68.7	41.6	23.8	10.2	7.6	13.6	11.0	8.5
70°	7363.9	2124.6	73.8	48.4	33.1	20.4	6.8	5.1	14.4	11.0	6.8
72.5°	5510.8	1422.0	58.5	32.2	24.6	17.8	5.9	2.5	12.7	9.3	5.9
75°	3011.2	572.7	46.7	20.4	15.3	12.7	4.2	1.7	8.5	6.8	4.2
77.5°	792.5	151.0	33.9	13.6	8.5	5.1	2.5	0.8	4.2	3.4	1.7
80°	201.9	58.5	22.1	9.3	5.9	2.5	0.0	0.0	0.8	0.0	0.0
82.5°	107.8	24.6	13.6	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	81.5	16.1	7.6	4.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	31.4	5.1	2.5	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)