

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: P322183

Luminaire Tested: **GAN-SA9D-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42273 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

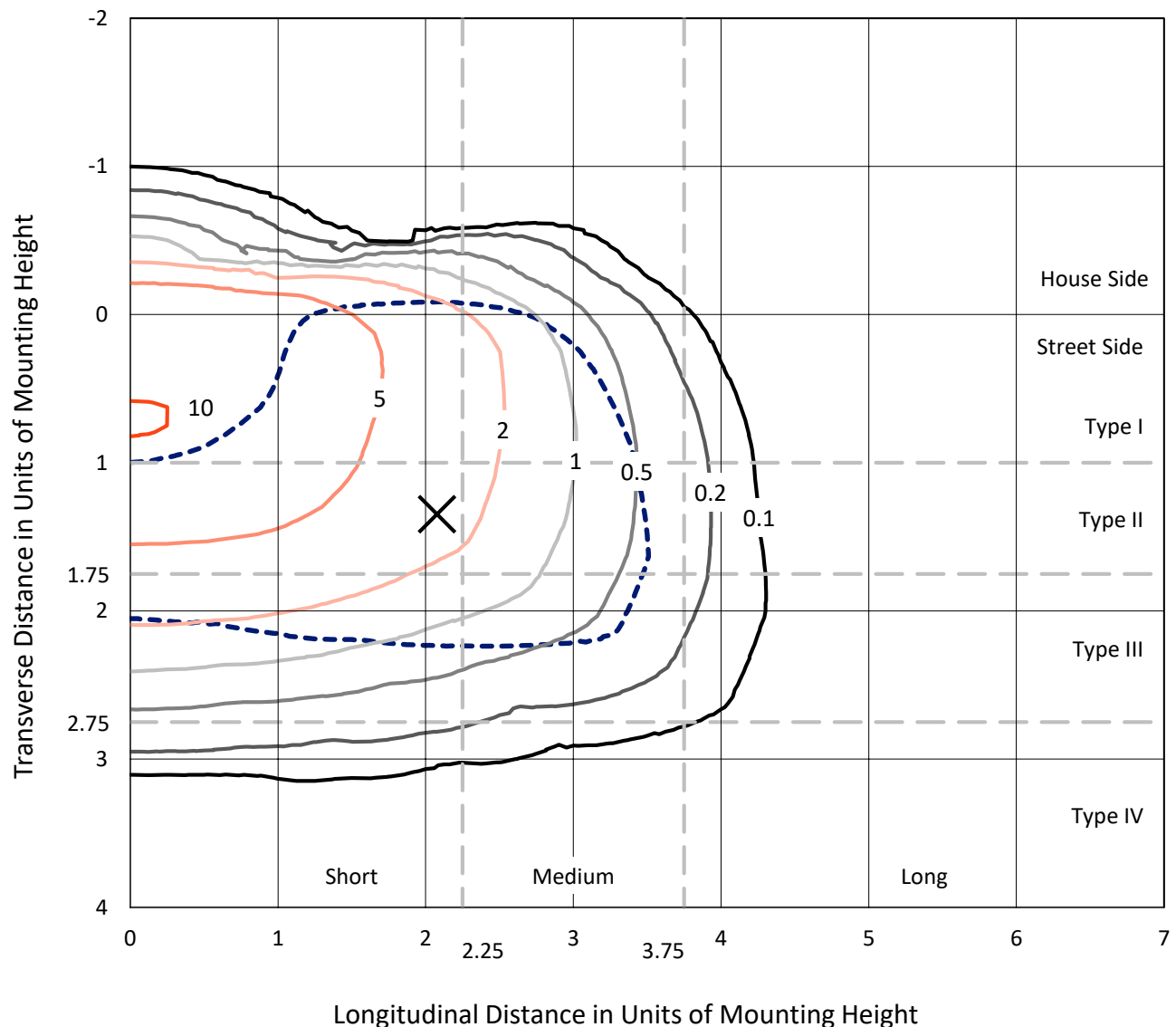


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Iso-Footcandle Lines of Horizontal Illumination

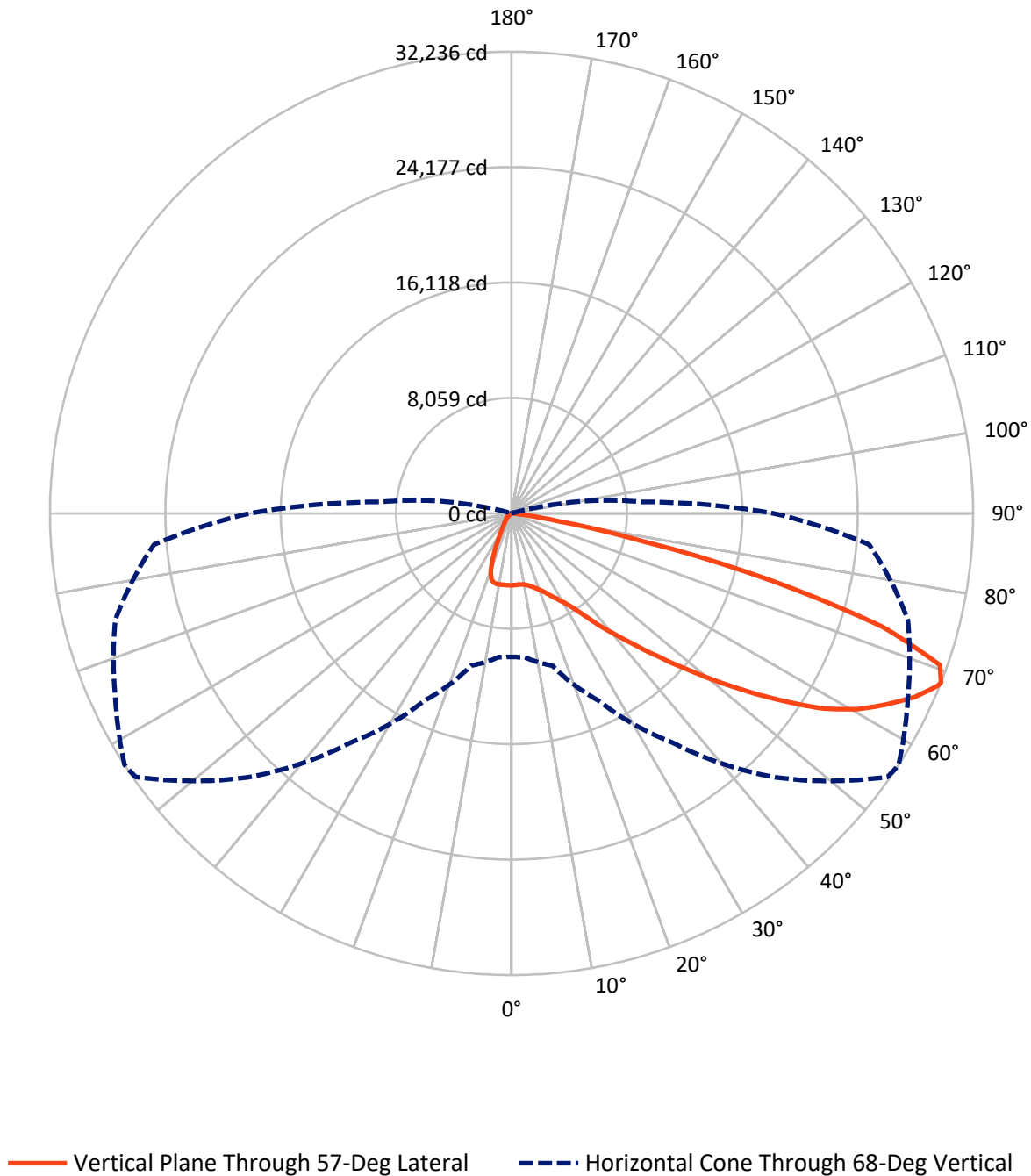
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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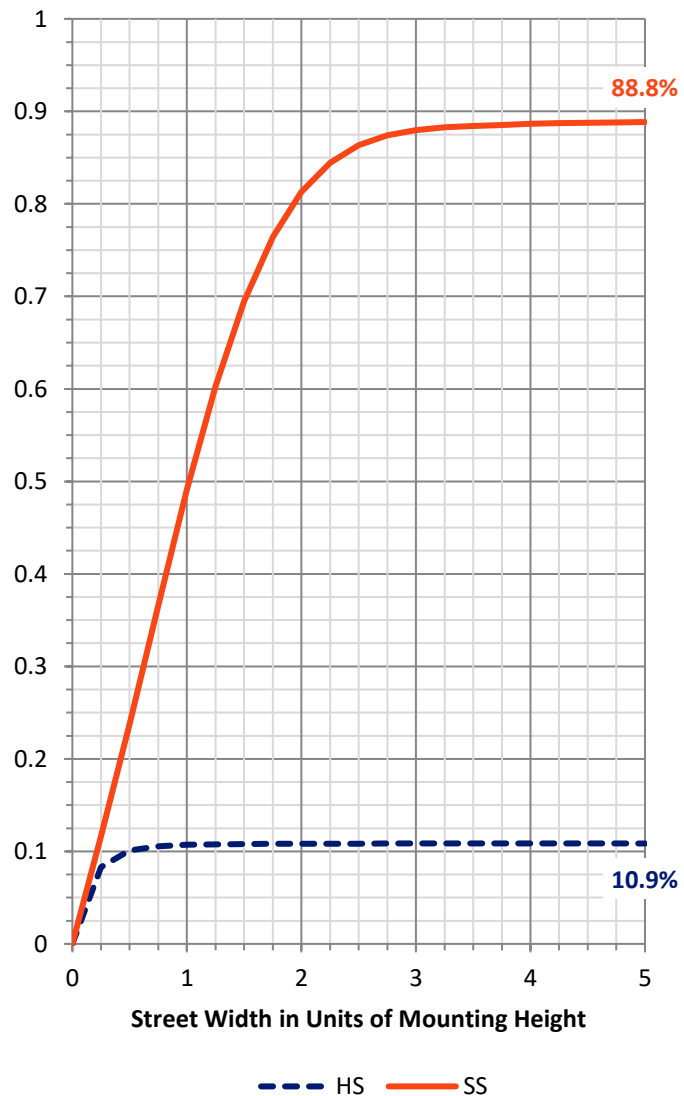
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4635.5	0.0	4635.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	37637.5	0.0	37637.5
	% Fixture	89.0	0.0	89.0
Total	Lumens	42273.0	0.0	42273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	470.1	1.1
10°-20°	1302.7	3.1
20°-30°	2247.2	5.3
30°-40°	3878.6	9.2
40°-50°	6634.4	15.7
50°-60°	10614.4	25.1
60°-70°	12263.8	29.0
70°-80°	4686.2	11.1
80°-90°	175.7	0.4
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°	42273.0	100.0
0°-180°	42273.0	100.0

Coefficient of Utilization



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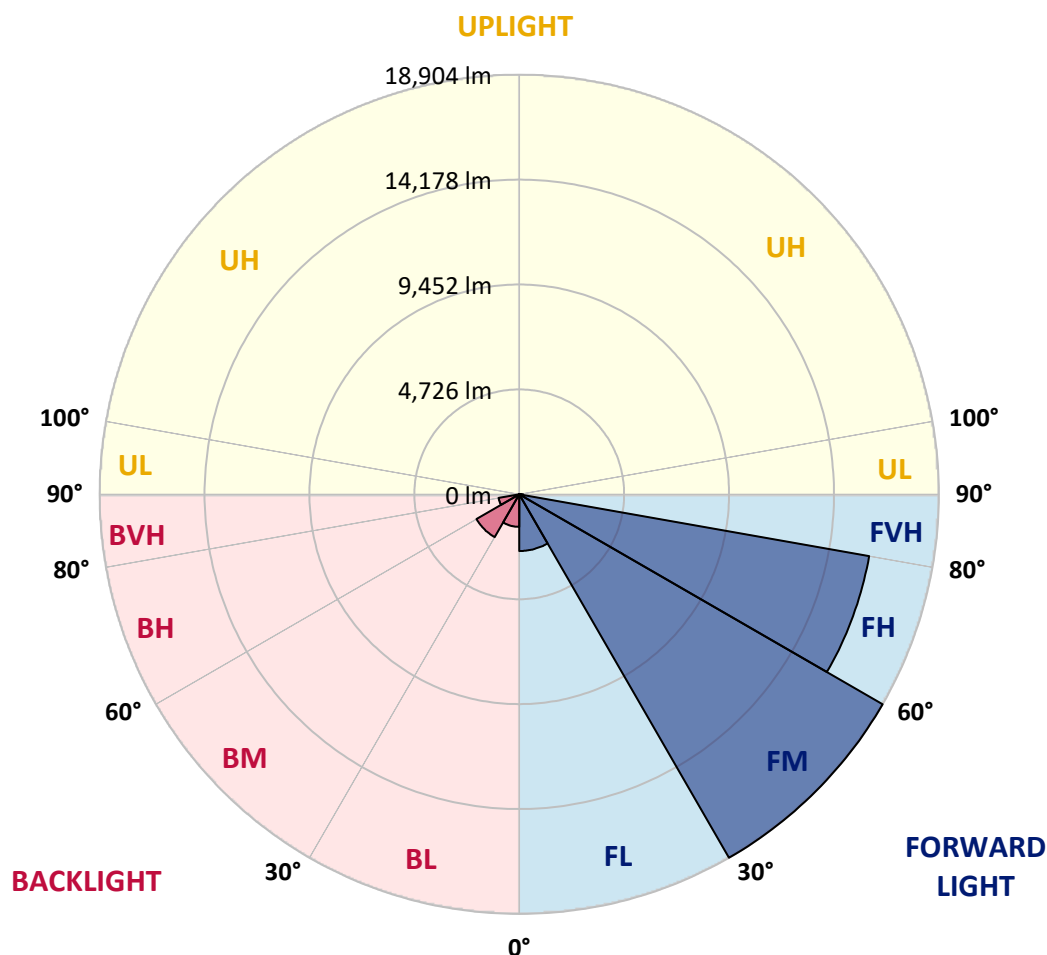
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2555.0	6.0			
FM	(30°-60°)	18904.1	44.7			
FH	(60°-80°)	16005.9	37.9			G5
FVH	(80°-90°)	172.5	0.4			G2/225
BL	(0°-30°)	1465.0	3.5	B3/2500		
BM	(30°-60°)	2223.3	5.3	B2/2500		
BH	(60°-80°)	944.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	3.2	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1
2.5°	4905.2	4927.2	4943.2	4953.2	4965.2	4991.2	4999.2	5011.2	5017.2	5017.2	5031.1
5°	4711.3	4735.3	4769.3	4797.3	4853.2	4925.2	4977.2	4997.2	5033.1	5065.1	5083.1
7.5°	4531.4	4559.4	4599.4	4665.4	4761.3	4877.2	4985.2	5013.2	5083.1	5151.1	5185.1
10°	4415.5	4437.5	4489.5	4583.4	4709.3	4871.2	5023.1	5057.1	5177.1	5291.0	5355.0
12.5°	4375.5	4395.5	4449.5	4555.4	4711.3	4901.2	5111.1	5161.1	5337.0	5502.9	5592.8
15°	4433.5	4437.5	4495.4	4595.4	4749.3	4975.2	5257.0	5317.0	5538.9	5754.7	5866.7
17.5°	4657.4	4639.4	4669.3	4713.3	4835.3	5073.1	5410.9	5500.9	5796.7	6050.6	6156.5
20°	5217.0	5217.0	5149.1	5029.1	5031.1	5225.0	5618.8	5720.8	6082.5	6376.4	6472.3
22.5°	6174.5	6156.5	6020.6	5726.7	5456.9	5486.9	5872.7	6004.6	6426.3	6740.2	6772.2
25°	7325.8	7303.9	7094.0	6680.2	6212.5	5910.6	6216.5	6368.4	6836.1	7114.0	7048.0
27.5°	8545.1	8527.2	8319.3	7805.6	7139.9	6586.3	6626.2	6770.2	7253.9	7527.7	7317.8
30°	9726.5	9732.5	9526.6	8998.9	8245.3	7447.8	7145.9	7229.9	7659.6	7937.5	7637.7
32.5°	10849.8	10857.8	10679.9	10090.3	9386.7	8449.2	7865.5	7843.5	8131.4	8405.2	8061.4
35°	11851.3	11871.3	11749.3	11291.6	10546.0	9564.6	8799.0	8747.0	8801.0	9110.8	8711.1
37.5°	12816.7	12828.7	12736.8	12351.0	11727.3	10789.9	9978.3	9904.4	9788.4	10026.3	9568.6
40°	13874.1	13844.1	13738.2	13388.4	12852.7	12143.1	11245.6	11117.7	10915.8	11127.7	10695.9
42.5°	14857.6	14823.6	14841.6	14445.8	13994.1	13534.3	12722.8	12502.9	12385.0	12628.8	12079.1
45°	16086.9	16068.9	16128.8	15785.0	15419.2	15085.4	14415.8	14175.9	14124.0	14409.8	13752.2
47.5°	17300.2	17344.1	17530.0	17384.1	17236.2	16942.4	16208.8	16100.9	16132.8	16478.6	15517.2
50°	18311.6	18363.6	18873.3	19041.2	19255.1	19083.2	18347.6	18281.6	18407.5	18719.4	17416.1
52.5°	19043.2	19149.1	19782.8	20556.3	21335.9	21451.8	20718.2	20658.3	20828.2	20876.1	18883.3
55°	19550.9	19644.8	20362.4	21777.6	23364.7	23864.4	23408.7	23176.8	23144.9	22671.1	20426.4
57.5°	19640.8	19630.8	20662.3	22567.2	24955.8	26245.1	25957.3	25729.4	25073.8	24330.2	22195.4
60°	19133.1	19191.1	20388.4	22841.0	25955.3	28046.1	28068.1	27772.2	26750.8	25943.3	23910.4
62.5°	17570.0	17805.9	19015.2	22123.4	25943.3	28771.7	29615.2	29389.3	28168.0	27264.5	25649.4
65°	15035.5	15119.4	16272.8	19664.8	24190.3	28467.8	31008.4	30924.4	29445.3	28547.8	26542.9
67.5°	10979.8	10797.9	12009.2	15485.2	20480.4	26696.8	32007.8	32113.8	30430.7	28811.6	25591.5
68°	10020.3	10074.3	11017.7	14451.8	19508.9	26071.2	32073.8	32235.7	30528.7	28639.7	25071.8
70°	5972.6	6076.5	6918.1	9950.3	14841.6	22531.2	31362.2	31732.0	29945.0	26866.7	21685.7
72.5°	1525.1	1649.1	2444.6	4453.5	8477.2	15875.0	26475.0	27100.6	25999.2	21795.6	14639.7
75°	627.6	659.6	873.5	1467.2	3158.2	7151.9	17450.1	18789.3	18023.8	13048.6	6616.2
77.5°	433.8	455.7	561.7	813.5	1367.2	2424.6	8555.1	9522.6	8579.1	4453.5	1443.2
80°	311.8	329.8	401.8	541.7	785.6	865.5	2788.4	3224.2	2560.5	977.4	357.8
82.5°	185.9	199.9	299.8	385.8	477.7	413.8	693.6	787.6	741.6	485.7	159.9
85°	91.9	107.9	201.9	275.8	257.9	173.9	211.9	235.9	291.8	295.8	86.0
87.5°	6.0	12.0	117.9	165.9	72.0	40.0	62.0	76.0	103.9	145.9	36.0
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°	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1	5023.1
2.5°	5037.1	5039.1	5025.1	5019.1	5023.1	4999.2	4989.2	4993.2	4993.2	4999.2	4989.2
5°	5087.1	5087.1	5063.1	5031.1	5013.2	4967.2	4937.2	4929.2	4923.2	4919.2	4911.2
7.5°	5195.0	5183.1	5141.1	5071.1	5011.2	4911.2	4835.3	4795.3	4775.3	4767.3	4761.3
10°	5369.0	5347.0	5277.0	5147.1	5009.2	4831.3	4665.4	4547.4	4449.5	4409.5	4385.5
12.5°	5602.8	5570.8	5452.9	5237.0	4995.2	4667.3	4307.6	3961.7	3639.9	3508.0	3442.0
15°	5872.7	5826.7	5640.8	5313.0	4913.2	4297.6	3516.0	2910.3	2464.6	2296.7	2224.7
17.5°	6146.5	6086.5	5804.7	5361.0	4667.3	3532.0	2466.6	1862.9	1565.1	1485.2	1457.2
20°	6422.4	6334.4	5946.6	5325.0	4111.7	2546.6	1627.1	1361.2	1275.3	1251.3	1243.3
22.5°	6684.2	6548.3	6074.5	5185.1	3256.2	1709.0	1287.3	1203.3	1175.3	1161.3	1157.3
25°	6912.1	6722.2	6186.5	4753.3	2304.7	1291.3	1159.3	1131.4	1095.4	1069.4	1071.4
27.5°	7126.0	6896.1	6254.4	4041.7	1537.1	1103.4	1073.4	1035.4	969.4	931.5	931.5
30°	7383.8	7128.0	6304.4	3110.2	1131.4	975.4	951.5	893.5	803.5	753.6	753.6
32.5°	7771.6	7479.8	6272.4	2182.8	937.5	857.5	801.5	721.6	623.6	575.7	573.7
35°	8365.2	8023.4	6044.6	1431.2	827.5	745.6	655.6	557.7	471.7	431.8	429.8
37.5°	9164.8	8751.0	5532.9	1023.4	741.6	641.6	533.7	425.8	361.8	335.8	333.8
40°	10202.2	9596.5	4801.3	829.5	661.6	541.7	411.8	329.8	285.8	265.8	267.8
42.5°	11447.5	10502.0	3923.8	715.6	583.7	445.7	321.8	259.9	231.9	217.9	213.9
45°	12830.7	11395.5	3004.3	637.6	505.7	359.8	251.9	205.9	183.9	175.9	175.9
47.5°	14351.8	12265.0	2198.8	569.7	421.8	277.8	201.9	167.9	149.9	143.9	141.9
50°	15733.1	12868.7	1585.1	497.7	345.8	219.9	163.9	139.9	127.9	119.9	119.9
52.5°	16884.4	13058.6	1167.3	419.8	279.8	175.9	135.9	119.9	107.9	101.9	101.9
55°	17897.8	12980.6	867.5	345.8	225.9	143.9	115.9	101.9	91.9	86.0	86.0
57.5°	18869.3	12728.8	647.6	281.8	181.9	115.9	97.9	86.0	76.0	72.0	72.0
60°	19662.8	12309.0	481.7	227.9	145.9	93.9	82.0	70.0	62.0	56.0	56.0
62.5°	20306.5	11845.3	353.8	187.9	115.9	74.0	64.0	58.0	46.0	40.0	40.0
65°	20310.5	11075.7	265.8	155.9	89.9	58.0	48.0	46.0	30.0	24.0	22.0
67.5°	18841.3	9548.6	203.9	133.9	70.0	44.0	36.0	38.0	16.0	10.0	8.0
68°	18307.6	9160.8	191.9	131.9	66.0	42.0	34.0	38.0	14.0	8.0	6.0
70°	15435.2	7287.9	153.9	127.9	58.0	32.0	28.0	38.0	12.0	6.0	4.0
72.5°	9872.4	4229.6	113.9	101.9	44.0	24.0	18.0	34.0	12.0	4.0	2.0
75°	4201.6	1311.3	78.0	72.0	26.0	18.0	12.0	22.0	8.0	2.0	0.0
77.5°	885.5	295.8	46.0	44.0	18.0	12.0	8.0	6.0	2.0	0.0	0.0
80°	227.9	86.0	24.0	22.0	10.0	6.0	4.0	0.0	0.0	0.0	0.0
82.5°	72.0	34.0	14.0	10.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.0	20.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	6.0	2.0	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)