

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: P323443

Luminaire Tested: **GAN-SA9B-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323443
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-SA9B-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 36498 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

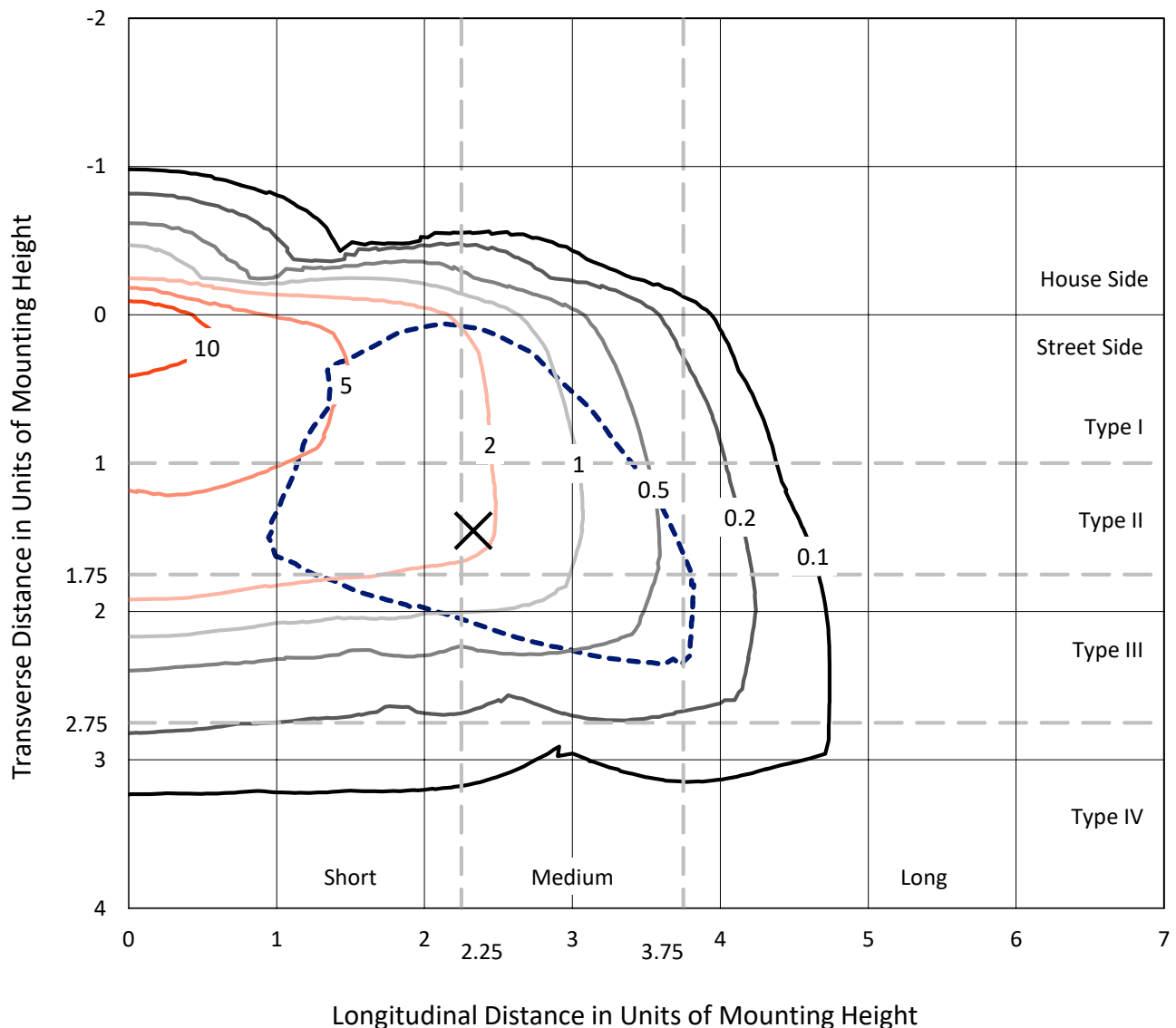
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

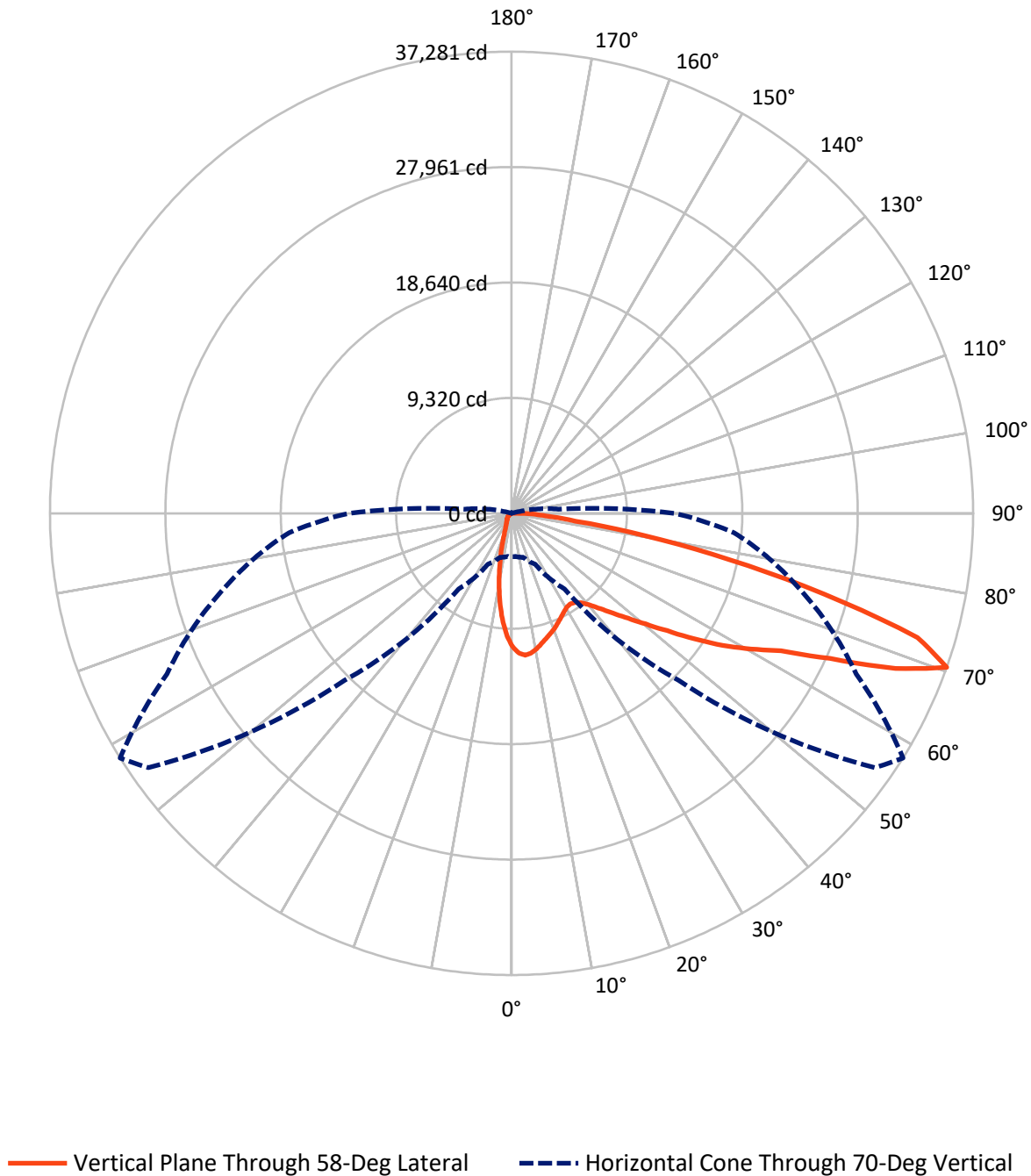
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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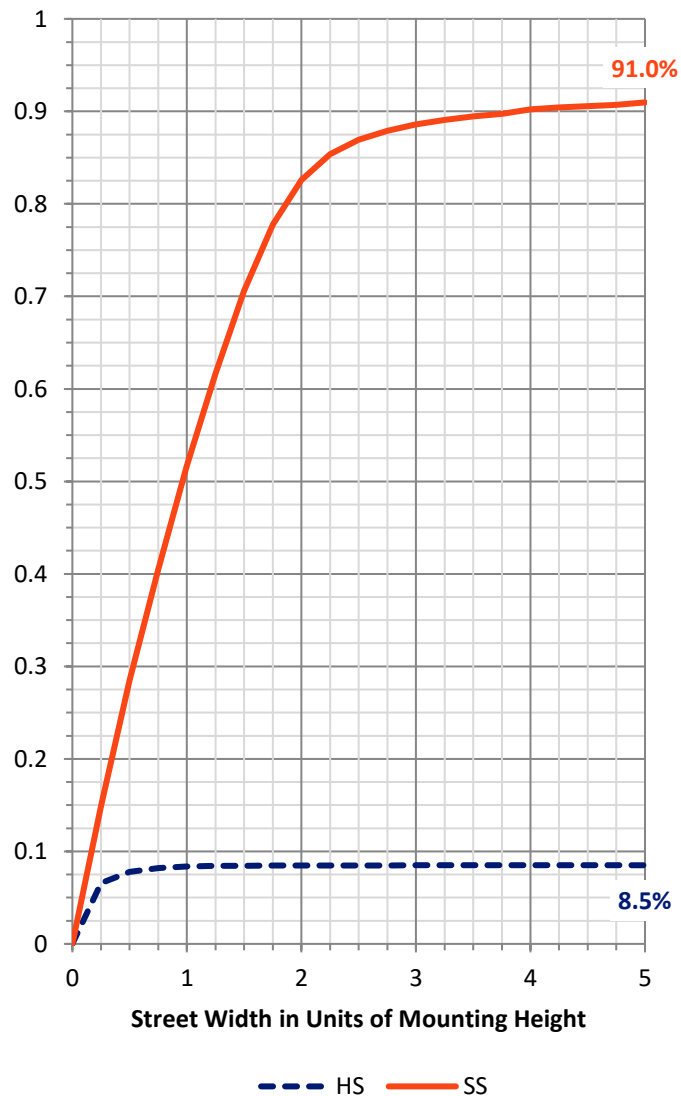
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3123.4	0.0	3123.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	33374.6	0.0	33374.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	36498.0	0.0	36498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	881.6	2.4
10°-20°	1850.3	5.1
20°-30°	2432.6	6.7
30°-40°	3221.7	8.8
40°-50°	4815.4	13.2
50°-60°	7714.1	21.1
60°-70°	9723.5	26.6
70°-80°	5244.8	14.4
80°-90°	613.9	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°	36498.0	100.0
0°-180°	36498.0	100.0

Coefficient of Utilization



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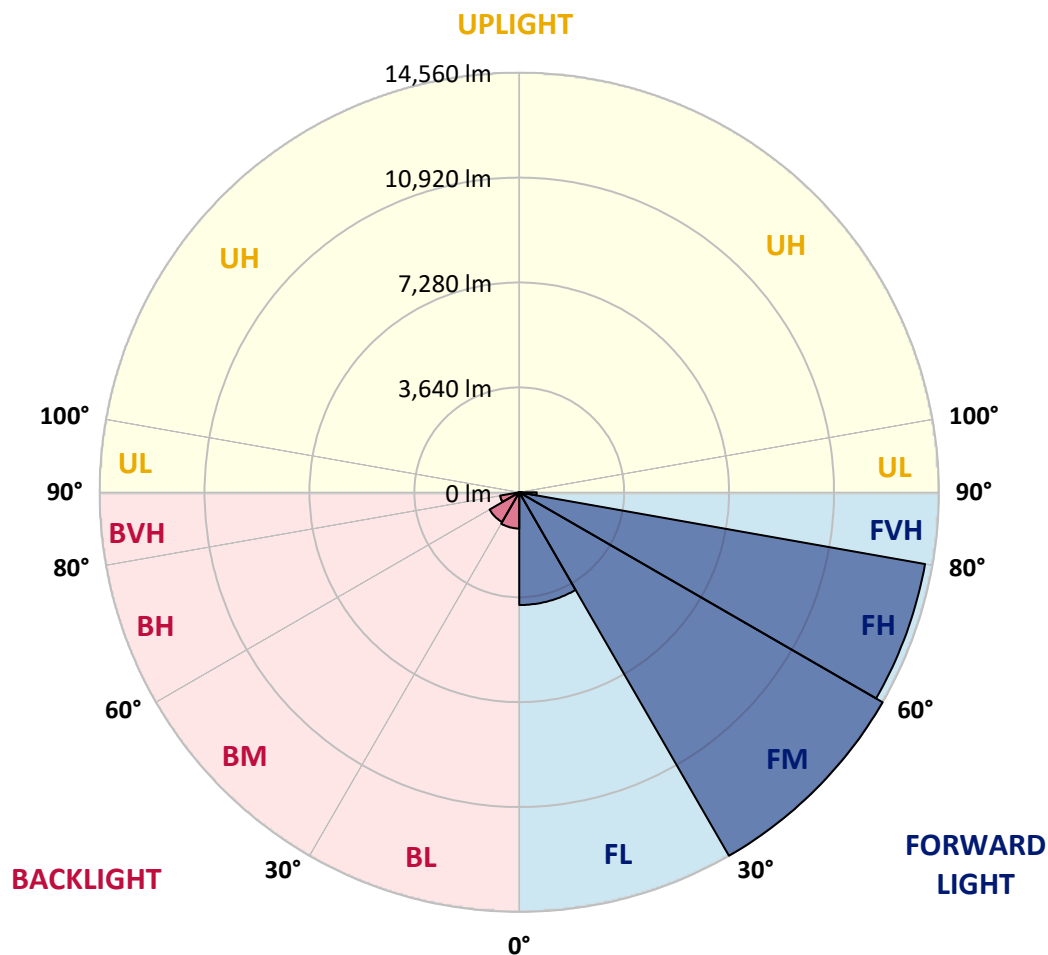
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3909.7	10.7			
FM	(30°-60°)	14559.6	39.9			
FH	(60°-80°)	14296.6	39.2			G5
FVH	(80°-90°)	608.6	1.7			G4/750
BL	(0°-30°)	1254.9	3.4	B3/2500		
BM	(30°-60°)	1191.5	3.3	B2/2500		
BH	(60°-80°)	671.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.3	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3
2.5°	11675.2	11646.4	11635.8	11617.6	11547.7	11479.5	11344.4	11306.4	11221.5	11019.6	10805.6
5°	11684.3	11682.8	11714.7	11707.1	11682.8	11650.9	11553.8	11503.7	11359.6	11071.2	10679.7
7.5°	11121.3	11150.1	11221.5	11279.1	11345.9	11432.4	11444.5	11396.0	11277.6	10966.5	10447.5
10°	10365.5	10411.0	10511.2	10625.0	10799.5	10972.6	11127.4	11121.3	11080.3	10773.7	10168.2
12.5°	9608.2	9661.3	9776.7	9945.1	10192.5	10474.8	10751.0	10788.9	10857.2	10600.7	9910.2
15°	8945.0	8990.5	9104.3	9310.7	9617.3	9996.7	10401.9	10471.7	10647.8	10465.7	9694.7
17.5°	8381.9	8410.8	8494.2	8723.4	9078.5	9538.4	10065.0	10201.6	10464.1	10359.4	9508.0
20°	7988.9	7993.4	8048.1	8208.9	8564.1	9078.5	9716.0	9911.7	10269.9	10268.4	9315.3
22.5°	7794.6	7779.4	7790.1	7882.6	8143.7	8639.9	9366.9	9599.1	10095.4	10191.0	9119.5
25°	7758.2	7746.1	7715.7	7727.8	7885.7	8256.0	9014.8	9283.4	9942.1	10143.9	8949.5
27.5°	7872.0	7884.2	7832.6	7777.9	7790.1	8007.1	8702.2	9013.3	9817.6	10143.9	8829.6
30°	8101.2	8107.2	8069.3	7998.0	7902.4	7937.3	8485.1	8796.3	9755.4	10213.7	8753.8
32.5°	8354.6	8388.0	8383.5	8325.8	8189.2	8048.1	8433.5	8717.3	9750.9	10368.5	8746.2
35°	8668.8	8706.7	8770.5	8758.3	8615.7	8383.5	8609.6	8832.7	9840.4	10623.5	8828.1
37.5°	9002.7	9060.3	9196.9	9262.2	9169.6	8907.0	9004.2	9163.5	10080.2	11036.3	9036.0
40°	9325.9	9391.2	9640.1	9896.6	9826.7	9556.6	9602.1	9729.6	10506.6	11629.7	9430.6
42.5°	9643.1	9740.2	10106.0	10527.9	10611.4	10395.9	10420.1	10521.8	11139.5	12446.2	10075.6
45°	10022.5	10131.8	10673.6	11194.1	11417.2	11323.1	11426.3	11493.1	11966.6	13525.2	10945.2
47.5°	10579.5	10705.5	11370.2	11963.6	12355.1	12415.8	12623.8	12667.8	13012.3	14781.8	12078.9
50°	11666.1	11701.0	12302.0	12840.8	13405.3	13769.6	14006.3	14039.7	14278.0	16155.3	13494.9
52.5°	13033.5	13056.3	13396.2	13757.4	14399.4	15143.0	15697.0	15744.0	15794.1	17493.9	14892.6
55°	14391.8	14388.8	14613.4	14825.9	15560.4	16641.0	17842.9	17871.8	17512.1	18764.1	15961.1
57.5°	15240.2	15322.1	15663.6	15936.8	16962.7	18348.3	20016.2	20122.4	19316.6	19705.1	17017.3
60°	14970.0	15009.5	15766.8	16777.5	18709.5	20775.0	22215.3	22242.6	20673.3	20644.5	18352.9
62.5°	12754.3	12775.5	13965.4	16049.1	19594.3	23922.6	24868.1	24423.4	22233.5	21948.2	19950.9
65°	8741.6	8879.7	9873.8	12449.2	17968.9	25897.1	28974.8	28238.8	24611.6	23827.0	21395.7
67.5°	5147.8	5119.0	5610.7	7507.8	13197.4	24585.8	34169.7	33438.2	27854.8	25085.1	20972.3
70°	3516.4	3496.6	3684.8	4545.3	7450.1	19072.2	35804.2	37280.9	30718.6	24238.3	18049.3
72.5°	2510.2	2520.8	2798.5	3531.6	4677.4	11112.2	30789.9	34285.1	29821.7	21130.1	13719.5
75°	1704.3	1733.1	2130.8	2897.2	4100.7	5653.2	21849.5	26062.5	24283.8	15357.0	7885.7
77.5°	916.7	948.5	1417.5	2334.1	3707.6	3927.7	14054.9	17937.0	15253.8	6903.8	2285.6
80°	382.4	400.7	663.2	1696.7	3203.7	3449.6	8269.6	10876.9	6500.1	1361.3	509.9
82.5°	165.4	174.5	276.2	1012.3	2394.8	2912.4	4378.4	5232.8	1969.9	299.0	256.5
85°	31.9	33.4	113.8	535.7	1528.3	1643.6	2838.0	2781.8	884.8	129.0	186.7
87.5°	0.0	0.0	27.3	168.5	449.2	895.4	1731.6	1710.4	300.5	62.2	69.8
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°	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3	10781.3
2.5°	10696.3	10591.6	10371.6	10099.9	9892.0	9662.8	9480.7	9250.0	9149.9	9154.4	9099.8
5°	10456.6	10241.1	9753.9	9139.2	8665.7	8177.1	7756.7	7337.8	7090.4	7010.0	6934.1
7.5°	10113.6	9772.1	8995.1	8048.1	7246.7	6463.6	5782.2	5182.8	4803.3	4618.2	4549.9
10°	9726.6	9247.0	8122.4	6874.9	5730.6	4671.3	3788.0	3020.1	2713.5	2505.6	2452.5
12.5°	9386.6	8737.1	7269.5	5671.4	4313.1	3035.3	2193.0	1714.9	1507.0	1425.1	1411.4
15°	9066.4	8260.5	6448.5	4581.8	2986.7	1868.2	1394.7	1232.3	1183.8	1170.1	1170.1
17.5°	8764.4	7806.8	5645.6	3508.8	1976.0	1309.7	1154.9	1118.5	1103.3	1101.8	1103.3
20°	8448.7	7353.0	4856.5	2570.9	1379.5	1109.4	1066.9	1047.2	1042.6	1042.6	1042.6
22.5°	8146.7	6899.2	4088.5	1836.3	1106.4	1012.3	991.0	977.4	972.8	971.3	968.3
25°	7856.8	6468.2	3338.8	1297.6	971.3	927.3	909.1	890.9	877.2	869.6	865.1
27.5°	7618.6	6084.2	2640.7	1041.1	877.2	839.3	816.5	789.2	755.8	740.6	734.5
30°	7428.9	5733.7	2035.2	878.7	789.2	751.2	716.3	669.3	620.7	594.9	593.4
32.5°	7280.1	5389.2	1545.0	777.0	710.3	663.2	613.1	553.9	497.8	469.0	467.4
35°	7207.3	5085.6	1180.7	702.7	640.4	581.3	519.0	453.8	399.1	371.8	368.8
37.5°	7255.9	4829.1	921.2	640.4	581.3	513.0	440.1	371.8	323.3	299.0	297.5
40°	7433.4	4665.2	748.2	587.3	531.2	447.7	368.8	305.0	264.1	244.3	242.8
42.5°	7811.3	4604.5	638.9	543.3	482.6	387.0	306.6	251.9	214.0	200.3	197.3
45°	8442.6	4694.1	564.6	500.8	432.5	329.3	253.4	206.4	173.0	162.4	160.9
47.5°	9283.4	4929.3	511.4	459.8	387.0	277.7	211.0	166.9	141.1	130.5	129.0
50°	10367.0	5302.6	467.4	418.9	344.5	235.2	174.5	132.0	109.3	101.7	101.7
52.5°	11546.2	5747.3	428.0	380.9	302.0	195.8	141.1	101.7	86.5	77.4	77.4
55°	12520.6	6135.8	385.5	352.1	250.4	162.4	107.8	77.4	63.7	59.2	59.2
57.5°	13493.4	6550.1	336.9	302.0	200.3	132.0	82.0	57.7	47.0	44.0	44.0
60°	14754.5	7057.0	289.9	245.9	157.8	100.2	60.7	41.0	34.9	33.4	33.4
62.5°	16141.7	7354.5	247.4	197.3	122.9	74.4	44.0	27.3	25.8	25.8	24.3
65°	16990.0	6934.1	207.9	157.8	95.6	56.2	28.8	19.7	22.8	21.2	18.2
67.5°	15907.9	5428.6	170.0	122.9	74.4	42.5	18.2	13.7	24.3	19.7	15.2
70°	13171.6	3800.2	132.0	86.5	59.2	36.4	12.1	9.1	25.8	19.7	12.1
72.5°	9857.1	2543.6	104.7	57.7	44.0	31.9	10.6	4.6	22.8	16.7	10.6
75°	5386.1	1024.4	83.5	36.4	27.3	22.8	7.6	3.0	15.2	12.1	7.6
77.5°	1417.5	270.1	60.7	24.3	15.2	9.1	4.6	1.5	7.6	6.1	3.0
80°	361.2	104.7	39.5	16.7	10.6	4.6	0.0	0.0	1.5	0.0	0.0
82.5°	192.7	44.0	24.3	12.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	145.7	28.8	13.7	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	56.2	9.1	4.6	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)