

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: P323663

Luminaire Tested: **GAN-SA9D-827-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323663
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-SA9D-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA 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: 43564 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

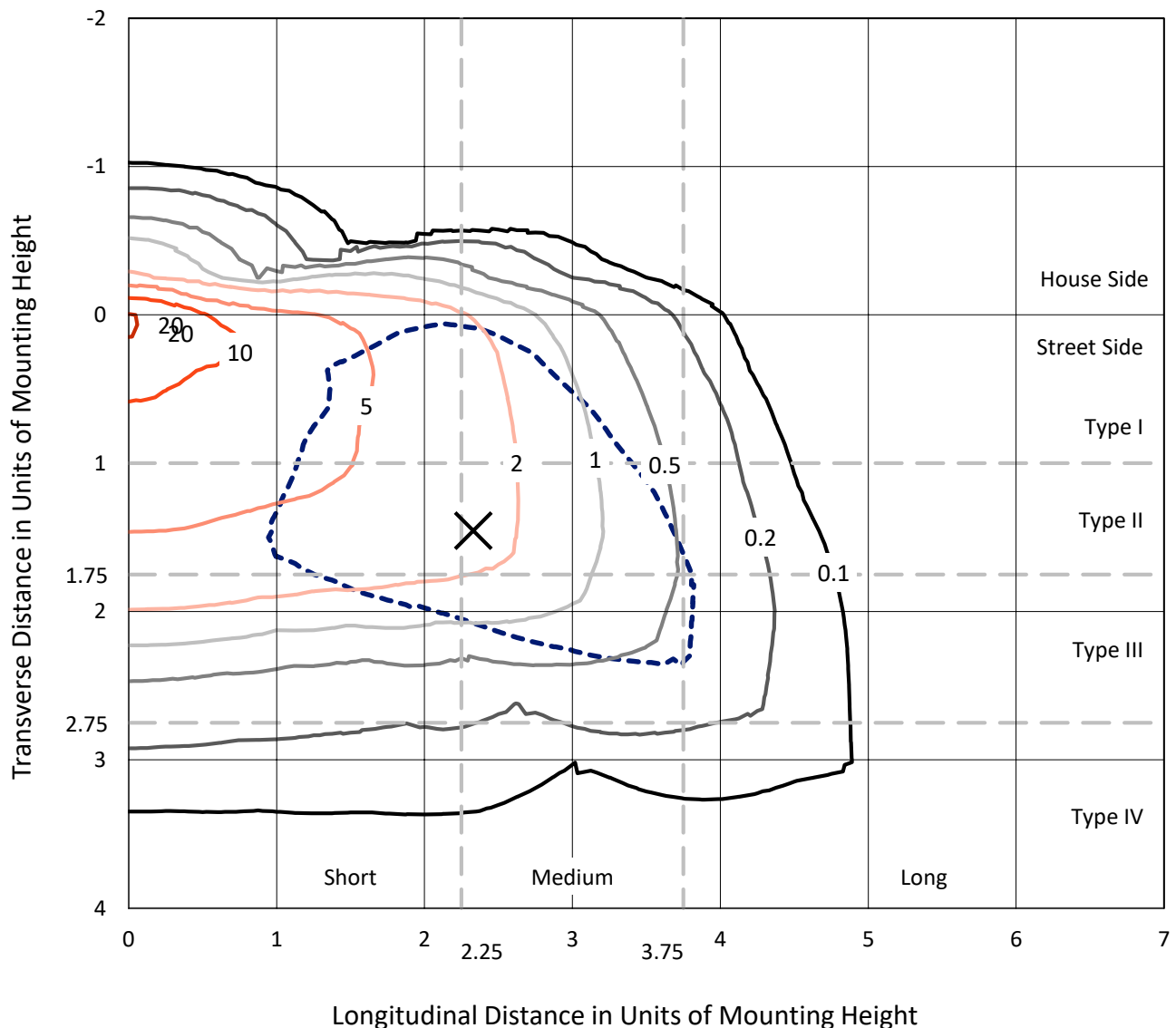
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

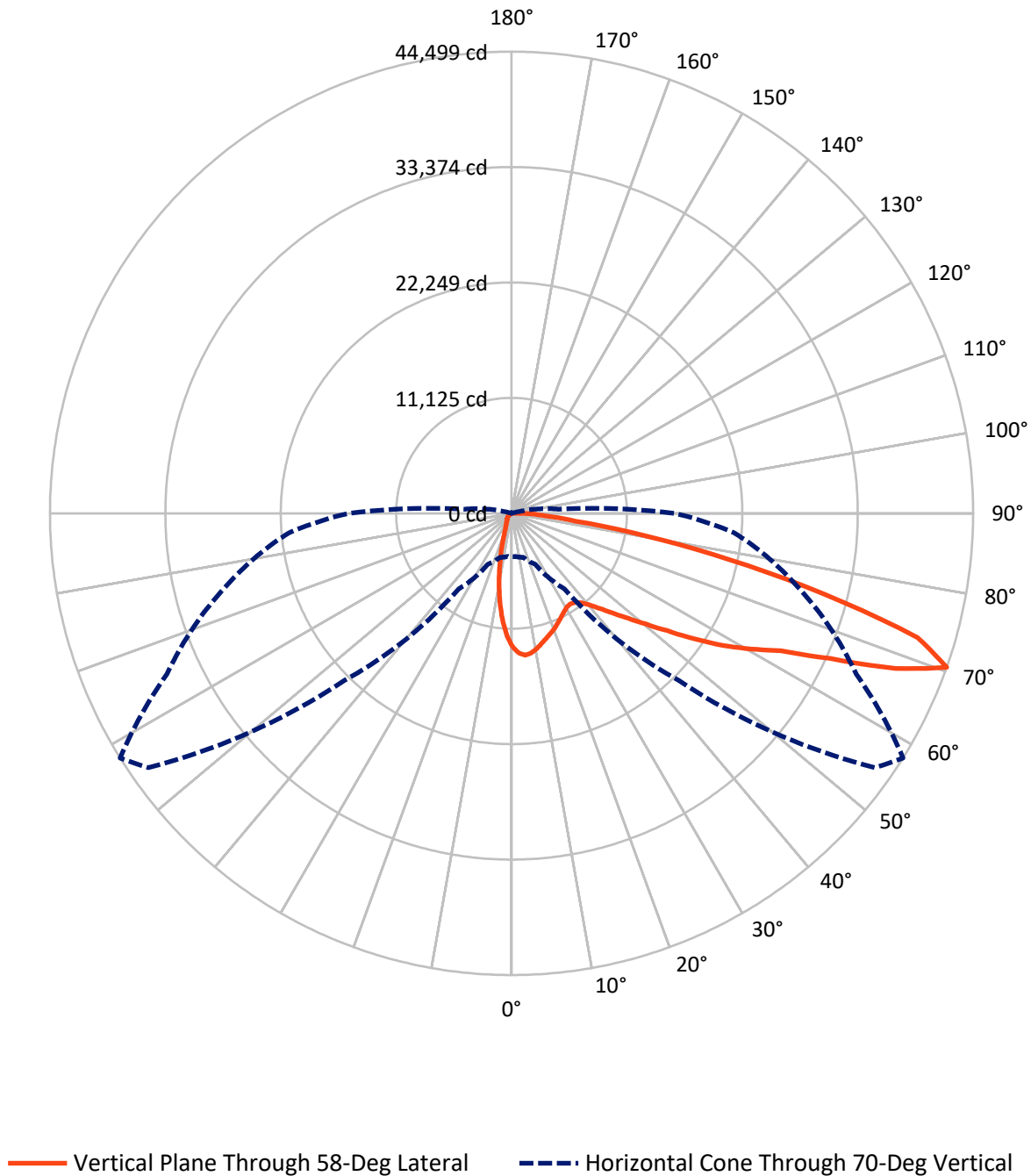
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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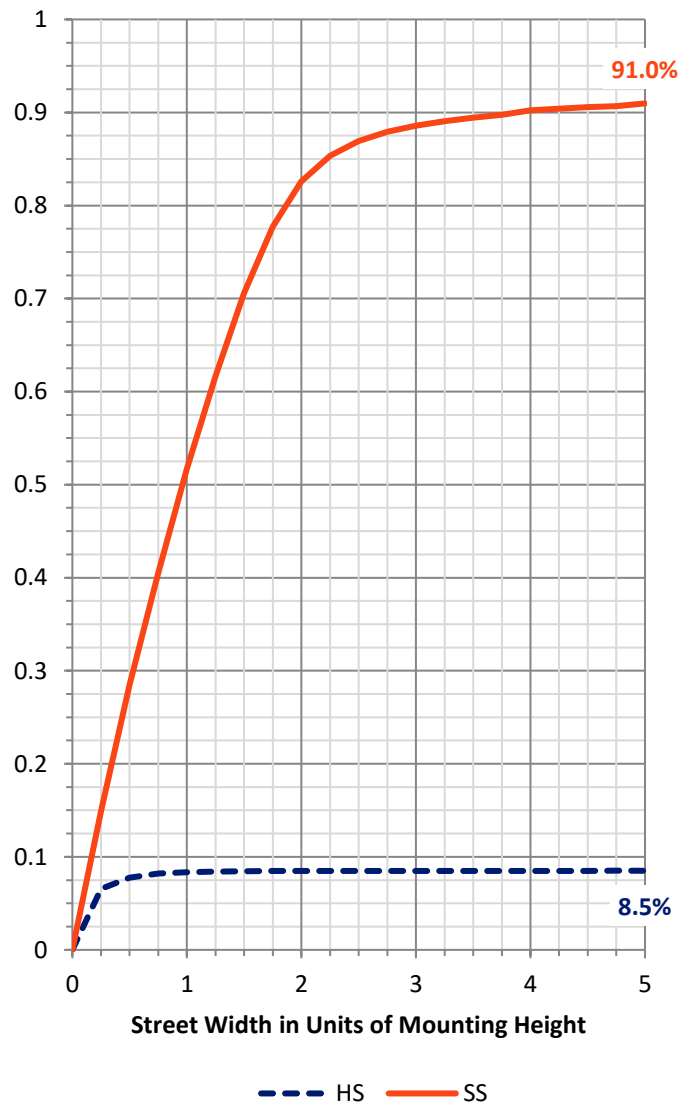
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3728.1	0.0	3728.1
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	39835.9	0.0	39835.9
	% Fixture	91.4	0.0	91.4
Total	Lumens	43564.0	0.0	43564.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1052.3	2.4
10°-20°	2208.6	5.1
20°-30°	2903.5	6.7
30°-40°	3845.4	8.8
40°-50°	5747.7	13.2
50°-60°	9207.5	21.1
60°-70°	11606.0	26.6
70°-80°	6260.2	14.4
80°-90°	732.8	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°	43564.0	100.0
0°-180°	43564.0	100.0

Coefficient of Utilization



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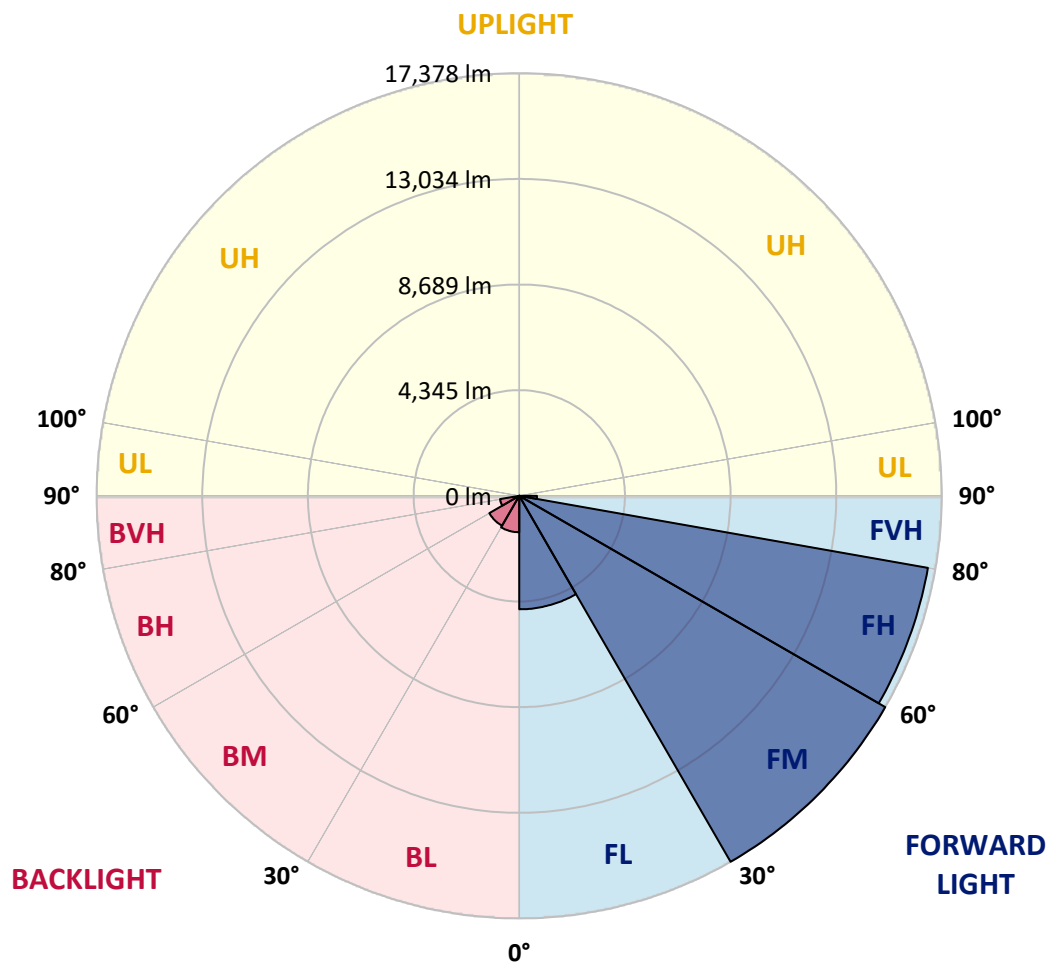
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4666.6	10.7			
FM	(30°-60°)	17378.3	39.9			
FH	(60°-80°)	17064.5	39.2			G5
FVH	(80°-90°)	726.5	1.7			G4/750
BL	(0°-30°)	1497.8	3.4	B3/2500		
BM	(30°-60°)	1422.2	3.3	B2/2500		
BH	(60°-80°)	801.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.3	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°	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6
2.5°	13935.5	13901.1	13888.5	13866.7	13783.4	13701.9	13540.7	13495.4	13393.9	13153.0	12897.6
5°	13946.4	13944.6	13982.6	13973.6	13944.6	13906.6	13790.6	13730.9	13558.8	13214.6	12747.2
7.5°	13274.4	13308.8	13393.9	13462.8	13542.5	13645.7	13660.2	13602.2	13460.9	13089.6	12470.1
10°	12372.3	12426.6	12546.2	12682.0	12890.3	13096.8	13281.6	13274.4	13225.5	12859.5	12136.8
12.5°	11468.3	11531.7	11669.4	11870.5	12165.8	12502.7	12832.4	12877.7	12959.2	12653.0	11828.8
15°	10676.7	10731.1	10866.9	11113.3	11479.2	11932.1	12415.7	12499.1	12709.2	12491.8	11571.6
17.5°	10004.7	10039.1	10138.7	10412.3	10836.1	11385.0	12013.6	12176.6	12490.0	12365.0	11348.8
20°	9535.5	9541.0	9606.2	9798.2	10222.1	10836.1	11597.0	11830.6	12258.1	12256.3	11118.7
22.5°	9303.6	9285.5	9298.2	9408.7	9720.3	10312.6	11180.3	11457.5	12049.8	12163.9	10885.1
25°	9260.2	9245.7	9209.5	9223.9	9412.3	9854.3	10760.1	11080.7	11866.9	12107.8	10682.2
27.5°	9396.0	9410.5	9348.9	9283.7	9298.2	9557.3	10386.9	10758.3	11718.3	12107.8	10539.1
30°	9669.6	9676.8	9631.5	9546.4	9432.3	9473.9	10127.9	10499.2	11644.1	12191.1	10448.5
32.5°	9972.1	10011.9	10006.5	9937.7	9774.6	9606.2	10066.3	10405.0	11638.6	12375.9	10439.4
35°	10347.0	10392.3	10468.4	10453.9	10283.6	10006.5	10276.4	10542.7	11745.5	12680.2	10537.3
37.5°	10745.6	10814.4	10977.4	11055.3	10944.8	10631.4	10747.4	10937.6	12031.7	13172.9	10785.4
40°	11131.4	11209.3	11506.4	11812.5	11729.2	11406.8	11461.1	11613.3	12540.7	13881.2	11256.4
42.5°	11510.0	11625.9	12062.5	12566.1	12665.7	12408.5	12437.5	12558.8	13296.1	14855.8	12026.3
45°	11962.9	12093.3	12740.0	13361.3	13627.6	13515.3	13638.5	13718.2	14283.3	16143.7	13064.2
47.5°	12627.7	12778.0	13571.4	14279.7	14747.1	14819.5	15067.7	15120.2	15531.4	17643.6	14417.4
50°	13924.7	13966.3	14683.7	15326.7	16000.6	16435.4	16717.9	16757.8	17042.2	19283.0	16107.5
52.5°	15556.8	15584.0	15989.7	16420.9	17187.1	18074.7	18735.9	18792.1	18851.8	20880.7	17775.8
55°	17178.1	17174.4	17442.5	17696.1	18572.9	19862.6	21297.3	21331.7	20902.4	22396.9	19051.1
57.5°	18190.7	18288.5	18696.1	19022.1	20246.7	21900.5	23891.3	24018.1	23056.2	23520.0	20311.9
60°	17868.2	17915.3	18819.2	20025.7	22331.7	24797.1	26516.1	26548.7	24675.7	24641.3	21906.0
62.5°	15223.5	15248.9	16669.0	19156.2	23387.7	28554.0	29682.6	29151.8	26537.9	26197.3	23813.4
65°	10434.0	10598.8	11785.3	14859.4	21447.7	30910.7	34584.4	33705.8	29376.4	28439.9	25537.9
67.5°	6144.5	6110.0	6697.0	8961.3	15752.4	29345.6	40785.0	39911.9	33247.5	29941.6	25032.5
70°	4197.1	4173.6	4398.2	5425.3	8892.4	22764.6	42735.9	44498.5	36665.7	28930.8	21543.7
72.5°	2996.2	3008.8	3340.3	4215.3	5582.9	13263.5	36750.9	40922.7	35595.2	25220.9	16375.6
75°	2034.3	2068.7	2543.3	3458.1	4894.6	6747.7	26079.6	31108.2	28985.1	18330.1	9412.3
77.5°	1094.1	1132.2	1691.9	2786.0	4425.4	4688.1	16775.9	21409.6	18207.0	8240.3	2728.1
80°	456.5	478.2	791.6	2025.2	3824.0	4117.4	9870.6	12982.7	7758.5	1624.9	608.6
82.5°	197.4	208.3	329.7	1208.2	2858.5	3476.2	5226.1	6245.9	2351.3	356.9	306.1
85°	38.0	39.9	135.9	639.4	1824.1	1961.8	3387.4	3320.4	1056.1	154.0	222.8
87.5°	0.0	0.0	32.6	201.1	536.2	1068.8	2066.9	2041.5	358.7	74.3	83.3
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°	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6	12868.6
2.5°	12767.2	12642.2	12379.5	12055.3	11807.1	11533.6	11316.2	11040.8	10921.3	10926.7	10861.5
5°	12480.9	12223.7	11642.2	10908.6	10343.4	9760.1	9258.4	8758.4	8463.1	8367.1	8276.6
7.5°	12071.6	11664.0	10736.5	9606.2	8649.7	7715.0	6901.7	6186.1	5733.3	5512.3	5430.8
10°	11609.6	11037.2	9694.9	8205.9	6840.1	5575.7	4521.4	3604.8	3238.9	2990.7	2927.3
12.5°	11203.9	10428.6	8676.9	6769.4	5148.2	3622.9	2617.6	2046.9	1798.8	1701.0	1684.7
15°	10821.7	9859.8	7696.9	5468.8	3564.9	2229.9	1664.7	1470.9	1412.9	1396.6	1396.6
17.5°	10461.2	9318.1	6738.6	4188.1	2358.5	1563.3	1378.5	1335.0	1316.9	1315.1	1316.9
20°	10084.4	8776.5	5796.7	3068.6	1646.6	1324.2	1273.5	1249.9	1244.5	1244.5	1244.5
22.5°	9723.9	8234.9	4880.1	2191.9	1320.6	1208.2	1182.9	1166.6	1161.1	1159.3	1155.7
25°	9377.9	7720.4	3985.2	1548.8	1159.3	1106.8	1085.1	1063.3	1047.0	1038.0	1032.5
27.5°	9093.5	7262.1	3151.9	1242.7	1047.0	1001.7	974.6	942.0	902.1	884.0	876.7
30°	8867.1	6843.7	2429.2	1048.8	942.0	896.7	855.0	798.9	740.9	710.1	708.3
32.5°	8689.6	6432.5	1844.1	927.5	847.8	791.6	731.8	661.2	594.2	559.7	557.9
35°	8602.6	6070.2	1409.3	838.7	764.4	693.8	619.5	541.6	476.4	443.8	440.2
37.5°	8660.6	5764.1	1099.6	764.4	693.8	612.3	525.3	443.8	385.8	356.9	355.0
40°	8872.5	5568.4	893.0	701.0	634.0	534.4	440.2	364.1	315.2	291.6	289.8
42.5°	9323.6	5496.0	762.6	648.5	576.0	461.9	365.9	300.7	255.4	239.1	235.5
45°	10077.1	5602.8	673.9	597.8	516.3	393.1	302.5	246.4	206.5	193.8	192.0
47.5°	11080.7	5883.6	610.5	548.9	461.9	331.5	251.8	199.3	168.5	155.8	154.0
50°	12374.1	6329.2	557.9	500.0	411.2	280.8	208.3	157.6	130.4	121.4	121.4
52.5°	13781.6	6860.0	510.8	454.7	360.5	233.7	168.5	121.4	103.3	92.4	92.4
55°	14944.5	7323.7	460.1	420.3	298.9	193.8	128.6	92.4	76.1	70.6	70.6
57.5°	16105.7	7818.3	402.1	360.5	239.1	157.6	97.8	68.8	56.2	52.5	52.5
60°	17611.0	8423.3	346.0	293.5	188.4	119.6	72.5	48.9	41.7	39.9	39.9
62.5°	19266.7	8778.3	295.3	235.5	146.7	88.8	52.5	32.6	30.8	30.8	29.0
65°	20279.3	8276.6	248.2	188.4	114.1	67.0	34.4	23.5	27.2	25.4	21.7
67.5°	18987.7	6479.6	202.9	146.7	88.8	50.7	21.7	16.3	29.0	23.5	18.1
70°	15721.6	4535.9	157.6	103.3	70.6	43.5	14.5	10.9	30.8	23.5	14.5
72.5°	11765.4	3036.0	125.0	68.8	52.5	38.0	12.7	5.4	27.2	19.9	12.7
75°	6428.9	1222.7	99.6	43.5	32.6	27.2	9.1	3.6	18.1	14.5	9.1
77.5°	1691.9	322.4	72.5	29.0	18.1	10.9	5.4	1.8	9.1	7.2	3.6
80°	431.1	125.0	47.1	19.9	12.7	5.4	0.0	0.0	1.8	0.0	0.0
82.5°	230.1	52.5	29.0	14.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	173.9	34.4	16.3	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	67.0	10.9	5.4	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)