

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: P323432

Luminaire Tested: **GAN-SA8A-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323432
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-SA8A-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA 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: 26683 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

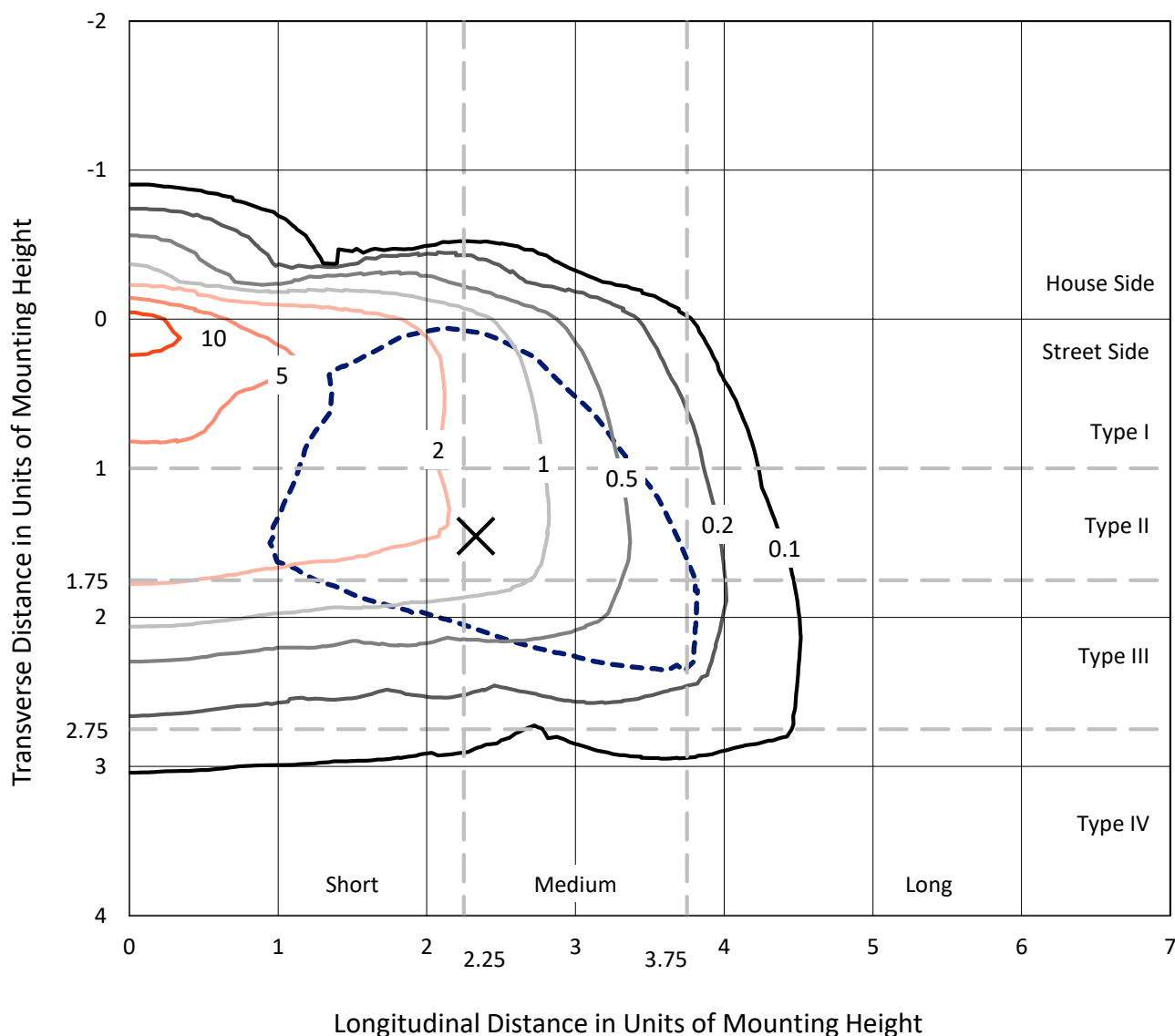
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

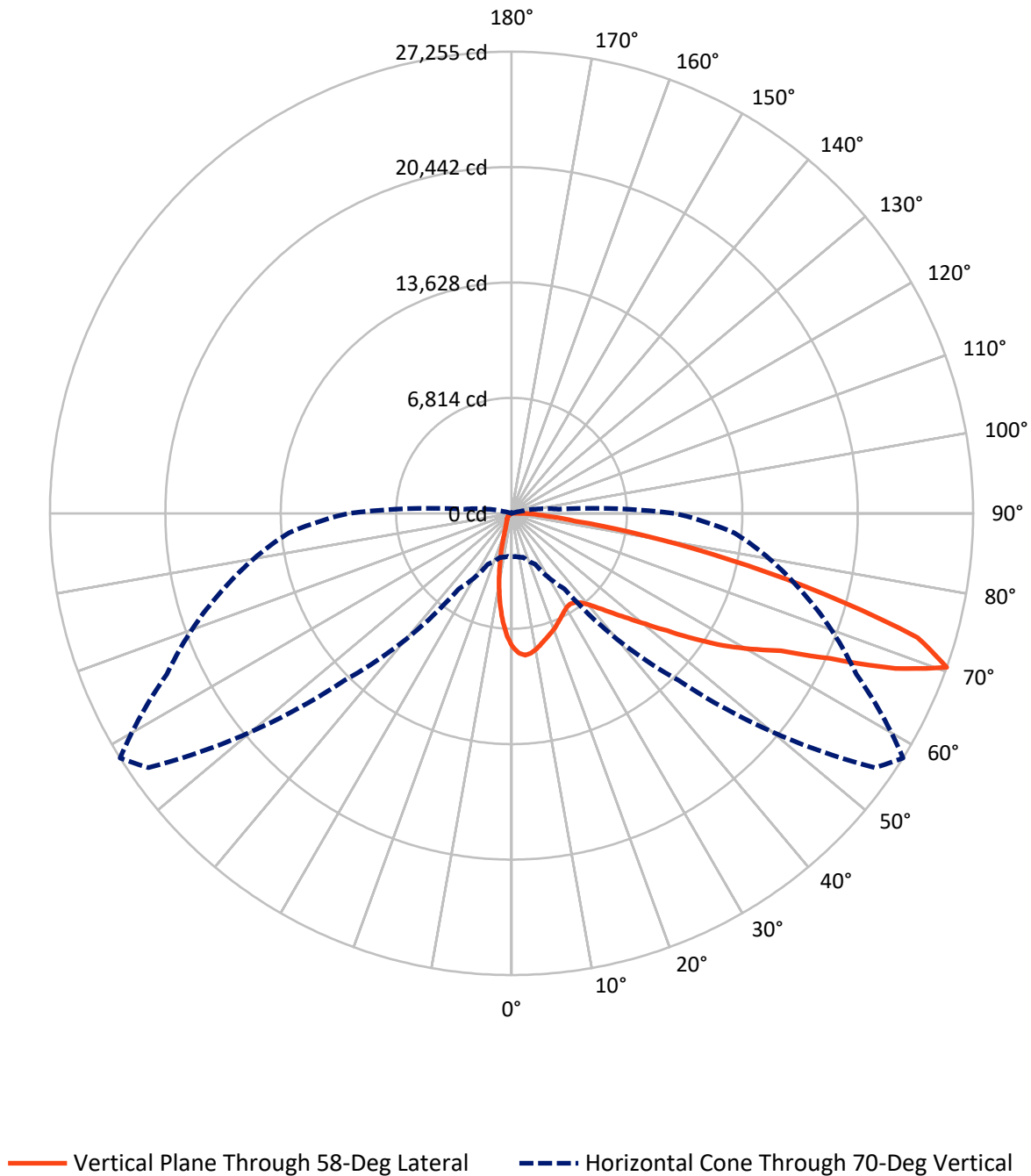
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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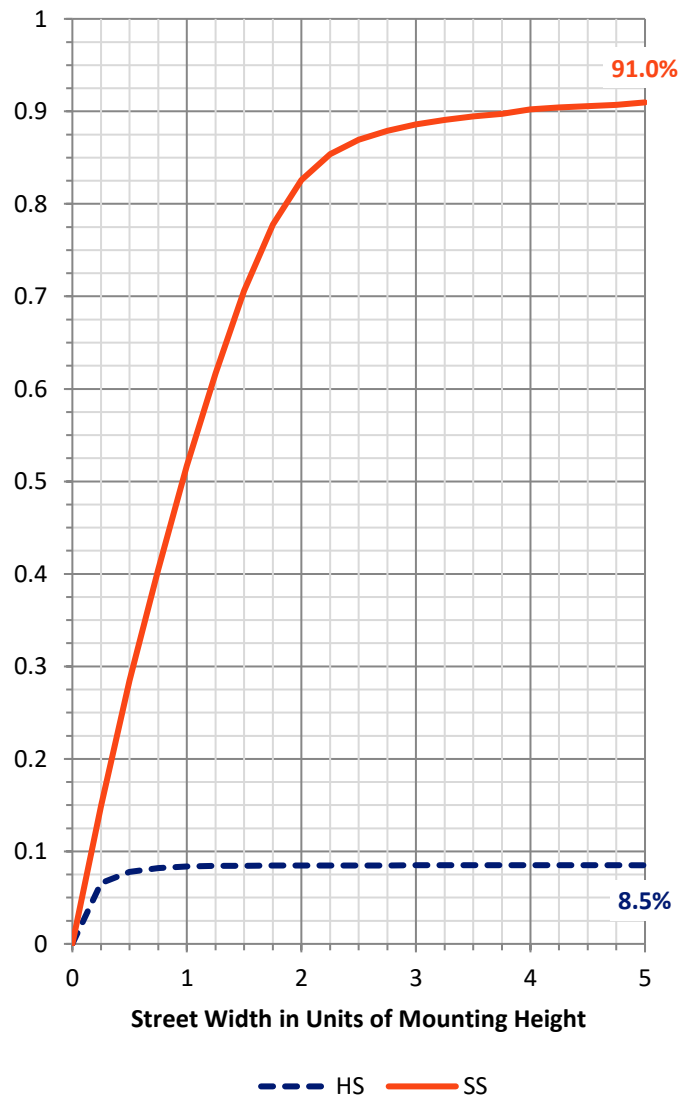
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2283.5	0.0	2283.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	24399.5	0.0	24399.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	26683.0	0.0	26683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	644.5	2.4
10°-20°	1352.8	5.1
20°-30°	1778.4	6.7
30°-40°	2355.3	8.8
40°-50°	3520.4	13.2
50°-60°	5639.6	21.1
60°-70°	7108.7	26.6
70°-80°	3834.4	14.4
80°-90°	448.8	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°	26683.0	100.0
0°-180°	26683.0	100.0

Coefficient of Utilization



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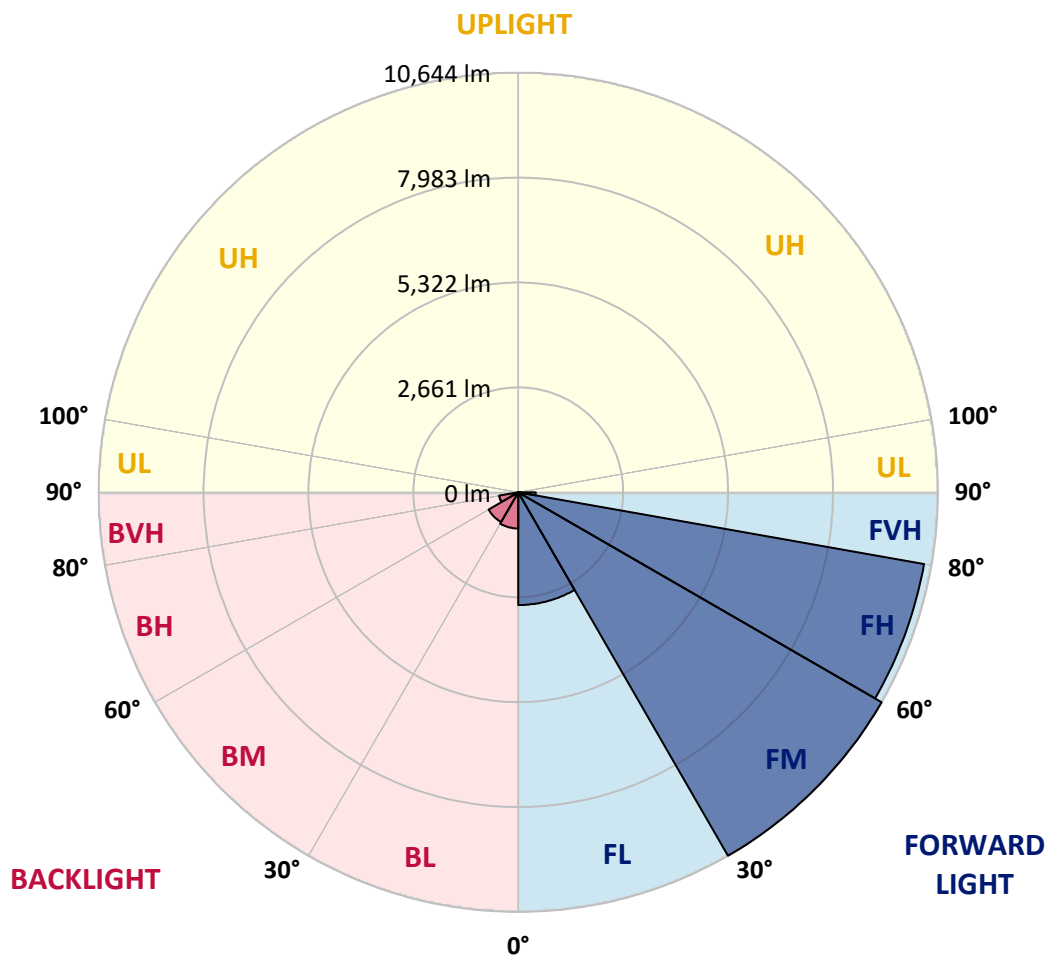
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2858.3	10.7			
FM	(30°-60°)	10644.3	39.9			
FH	(60°-80°)	10452.0	39.2			G4/12000
FVH	(80°-90°)	445.0	1.7			G3/500
BL	(0°-30°)	917.4	3.4	B2/1000		
BM	(30°-60°)	871.1	3.3	B1/1000		
BH	(60°-80°)	491.1	1.8	B1/500		G1/500
BVH	(80°-90°)	3.9	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°	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0
2.5°	8535.5	8514.5	8506.7	8493.4	8442.3	8392.4	8293.7	8265.9	8203.8	8056.2	7899.8
5°	8542.2	8541.1	8564.4	8558.8	8541.1	8517.8	8446.8	8410.2	8304.8	8094.0	7807.7
7.5°	8130.6	8151.6	8203.8	8246.0	8294.8	8358.0	8366.9	8331.4	8244.8	8017.4	7637.9
10°	7578.0	7611.3	7684.5	7767.8	7895.3	8021.8	8135.0	8130.6	8100.6	7876.5	7433.8
12.5°	7024.4	7063.2	7147.5	7270.7	7451.5	7657.9	7859.8	7887.6	7937.5	7750.0	7245.2
15°	6539.5	6572.8	6656.0	6806.9	7031.0	7308.4	7604.7	7655.7	7784.4	7651.3	7087.6
17.5°	6127.9	6149.0	6210.0	6377.5	6637.2	6973.3	7358.3	7458.2	7650.1	7573.6	6951.1
20°	5840.5	5843.8	5883.8	6001.4	6261.0	6637.2	7103.1	7246.3	7508.1	7507.0	6810.2
22.5°	5698.5	5687.4	5695.2	5762.8	5953.7	6316.5	6848.0	7017.7	7380.5	7450.4	6667.1
25°	5671.9	5663.0	5640.8	5649.7	5765.1	6035.8	6590.6	6786.9	7268.5	7416.0	6542.8
27.5°	5755.1	5764.0	5726.2	5686.3	5695.2	5853.8	6362.0	6589.4	7177.5	7416.0	6455.2
30°	5922.6	5927.1	5899.3	5847.2	5777.3	5802.8	6203.3	6430.8	7132.0	7467.1	6399.7
32.5°	6107.9	6132.3	6129.0	6086.8	5987.0	5883.8	6165.6	6373.1	7128.7	7580.2	6394.2
35°	6337.6	6365.3	6411.9	6403.0	6298.7	6129.0	6294.3	6457.4	7194.1	7766.6	6454.1
37.5°	6581.7	6623.8	6723.7	6771.4	6703.7	6511.8	6582.8	6699.3	7369.4	8068.4	6606.1
40°	6818.0	6865.7	7047.7	7235.2	7184.1	6986.6	7019.9	7113.1	7681.2	8502.3	6894.6
42.5°	7049.9	7120.9	7388.3	7696.7	7757.8	7600.2	7618.0	7692.3	8143.9	9099.2	7366.1
45°	7327.3	7407.2	7803.3	8183.8	8346.9	8278.1	8353.6	8402.4	8748.6	9888.0	8001.9
47.5°	7734.5	7826.6	8312.5	8746.3	9032.6	9077.0	9229.0	9261.2	9513.0	10806.7	8830.7
50°	8528.9	8554.4	8993.8	9387.7	9800.4	10066.7	10239.8	10264.2	10438.4	11810.8	9865.9
52.5°	9528.6	9545.2	9793.7	10057.8	10527.1	11070.8	11475.8	11510.2	11546.8	12789.4	10887.7
55°	10521.6	10519.4	10683.6	10838.9	11375.9	12165.9	13044.6	13065.7	12802.8	13718.1	11668.8
57.5°	11141.8	11201.7	11451.4	11651.1	12401.1	13414.1	14633.5	14711.1	14122.0	14406.0	12441.1
60°	10944.3	10973.2	11526.8	12265.7	13678.2	15188.2	16241.2	16261.1	15113.9	15092.8	13417.4
62.5°	9324.4	9339.9	10209.8	11733.2	14325.0	17489.4	18180.6	17855.5	16254.5	16045.9	14585.8
65°	6390.8	6491.8	7218.5	9101.4	13136.7	18932.9	21183.0	20644.8	17993.1	17419.5	15642.0
67.5°	3763.5	3742.4	4101.9	5488.8	9648.4	17974.2	24980.8	24446.1	20364.1	18339.3	15332.5
70°	2570.8	2556.3	2693.9	3323.0	5446.6	13943.3	26175.8	27255.4	22457.8	17720.1	13195.5
72.5°	1835.1	1842.9	2046.0	2581.9	3419.5	8123.9	22509.9	25065.2	21802.1	15447.9	10030.1
75°	1246.0	1267.1	1557.8	2118.1	2997.9	4133.0	15973.8	19053.8	17753.4	11227.2	5765.1
77.5°	670.2	693.5	1036.3	1706.4	2710.6	2871.4	10275.3	13113.4	11151.8	5047.2	1670.9
80°	279.6	292.9	484.9	1240.4	2342.2	2521.9	6045.8	7951.9	4752.1	995.2	372.8
82.5°	120.9	127.6	201.9	740.1	1750.8	2129.2	3201.0	3825.6	1440.2	218.6	187.5
85°	23.3	24.4	83.2	391.7	1117.3	1201.6	2074.8	2033.8	646.9	94.3	136.5
87.5°	0.0	0.0	20.0	123.2	328.4	654.6	1266.0	1250.4	219.7	45.5	51.0
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°	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0	7882.0
2.5°	7819.9	7743.3	7582.5	7383.9	7231.9	7064.3	6931.2	6762.5	6689.3	6692.6	6652.7
5°	7644.6	7487.0	7130.9	6681.5	6335.4	5978.1	5670.8	5364.5	5183.7	5124.9	5069.4
7.5°	7393.8	7144.2	6576.1	5883.8	5298.0	4725.4	4227.3	3789.0	3511.6	3376.3	3326.3
10°	7110.9	6760.3	5938.2	5026.1	4189.5	3415.1	2769.4	2207.9	1983.8	1831.8	1793.0
12.5°	6862.4	6387.5	5314.6	4146.3	3153.3	2219.0	1603.3	1253.8	1101.8	1041.8	1031.9
15°	6628.3	6039.1	4714.4	3349.6	2183.5	1365.8	1019.6	900.9	865.4	855.4	855.4
17.5°	6407.5	5707.4	4127.4	2565.2	1444.6	957.5	844.3	817.7	806.6	805.5	806.6
20°	6176.7	5375.6	3550.5	1879.5	1008.6	811.1	780.0	765.6	762.2	762.2	762.2
22.5°	5955.9	5043.9	2989.0	1342.5	808.8	740.1	724.5	714.5	711.2	710.1	707.9
25°	5744.0	4728.8	2440.9	948.6	710.1	677.9	664.6	651.3	641.3	635.8	632.4
27.5°	5569.8	4448.1	1930.6	761.1	641.3	613.6	596.9	577.0	552.5	541.4	537.0
30°	5431.1	4191.8	1487.9	642.4	577.0	549.2	523.7	489.3	453.8	434.9	433.8
32.5°	5322.4	3939.9	1129.5	568.1	519.3	484.9	448.2	405.0	363.9	342.8	341.7
35°	5269.1	3718.0	863.2	513.7	468.2	424.9	379.5	331.7	291.8	271.8	269.6
37.5°	5304.6	3530.5	673.5	468.2	424.9	375.0	321.8	271.8	236.3	218.6	217.5
40°	5434.4	3410.7	547.0	429.4	388.3	327.3	269.6	223.0	193.1	178.6	177.5
42.5°	5710.7	3366.3	467.1	397.2	352.8	282.9	224.1	184.2	156.4	146.5	144.2
45°	6172.3	3431.7	412.7	366.1	316.2	240.8	185.3	150.9	126.5	118.7	117.6
47.5°	6786.9	3603.7	373.9	336.2	282.9	203.0	154.2	122.0	103.2	95.4	94.3
50°	7579.1	3876.7	341.7	306.2	251.9	172.0	127.6	96.5	79.9	74.3	74.3
52.5°	8441.2	4201.8	312.9	278.5	220.8	143.1	103.2	74.3	63.2	56.6	56.6
55°	9153.5	4485.8	281.8	257.4	183.1	118.7	78.8	56.6	46.6	43.3	43.3
57.5°	9864.7	4788.7	246.3	220.8	146.5	96.5	59.9	42.2	34.4	32.2	32.2
60°	10786.8	5159.3	211.9	179.7	115.4	73.2	44.4	30.0	25.5	24.4	24.4
62.5°	11800.9	5376.7	180.9	144.2	89.9	54.4	32.2	20.0	18.9	18.9	17.8
65°	12421.1	5069.4	152.0	115.4	69.9	41.1	21.1	14.4	16.6	15.5	13.3
67.5°	11630.0	3968.8	124.3	89.9	54.4	31.1	13.3	10.0	17.8	14.4	11.1
70°	9629.5	2778.2	96.5	63.2	43.3	26.6	8.9	6.7	18.9	14.4	8.9
72.5°	7206.3	1859.6	76.6	42.2	32.2	23.3	7.8	3.3	16.6	12.2	7.8
75°	3937.7	748.9	61.0	26.6	20.0	16.6	5.5	2.2	11.1	8.9	5.5
77.5°	1036.3	197.5	44.4	17.8	11.1	6.7	3.3	1.1	5.5	4.4	2.2
80°	264.1	76.6	28.8	12.2	7.8	3.3	0.0	0.0	1.1	0.0	0.0
82.5°	140.9	32.2	17.8	8.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	106.5	21.1	10.0	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	41.1	6.7	3.3	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)