

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: P323461

Luminaire Tested: **GAN-SA7D-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323461
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-SA7D-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 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: 39210 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

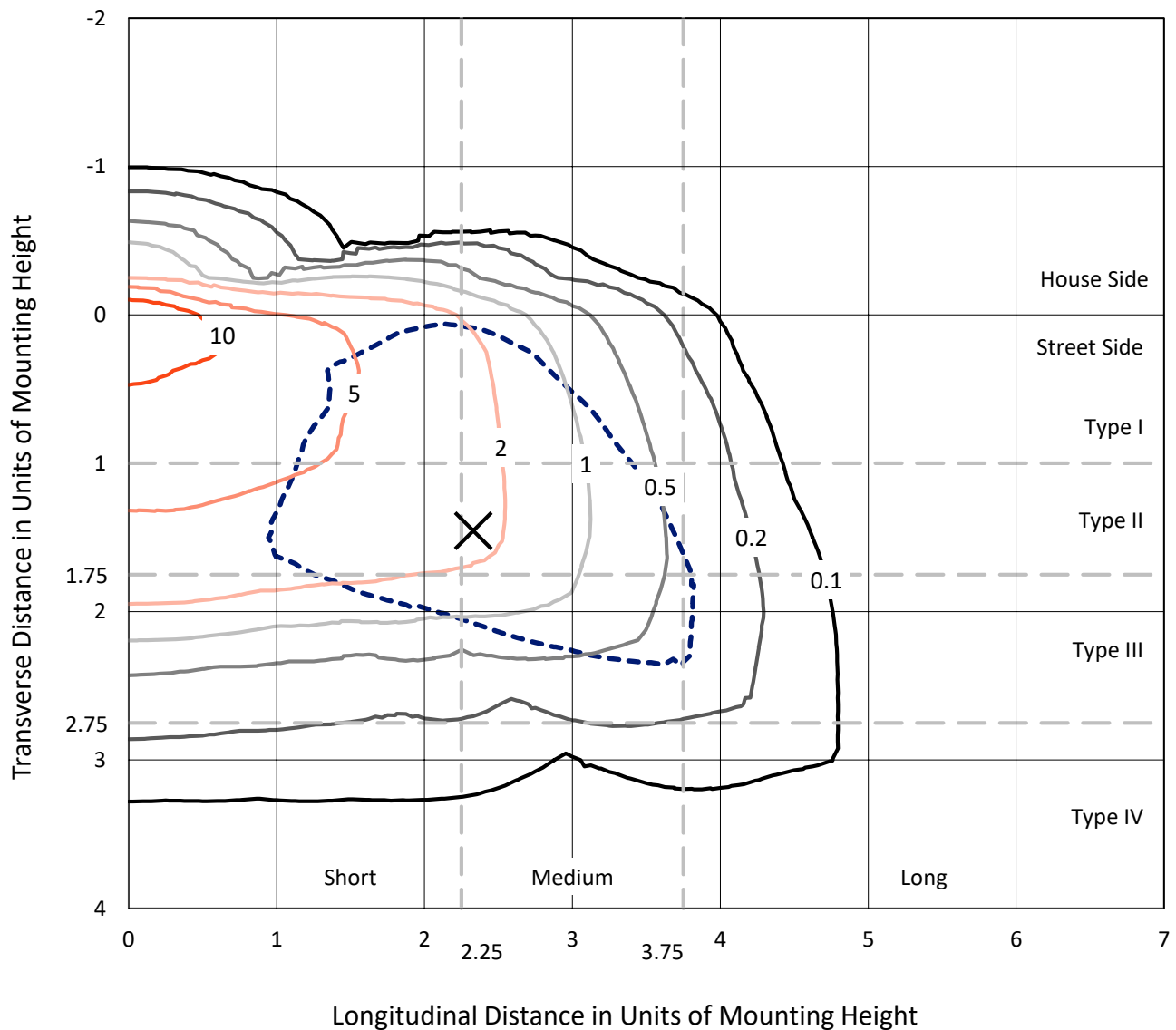
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

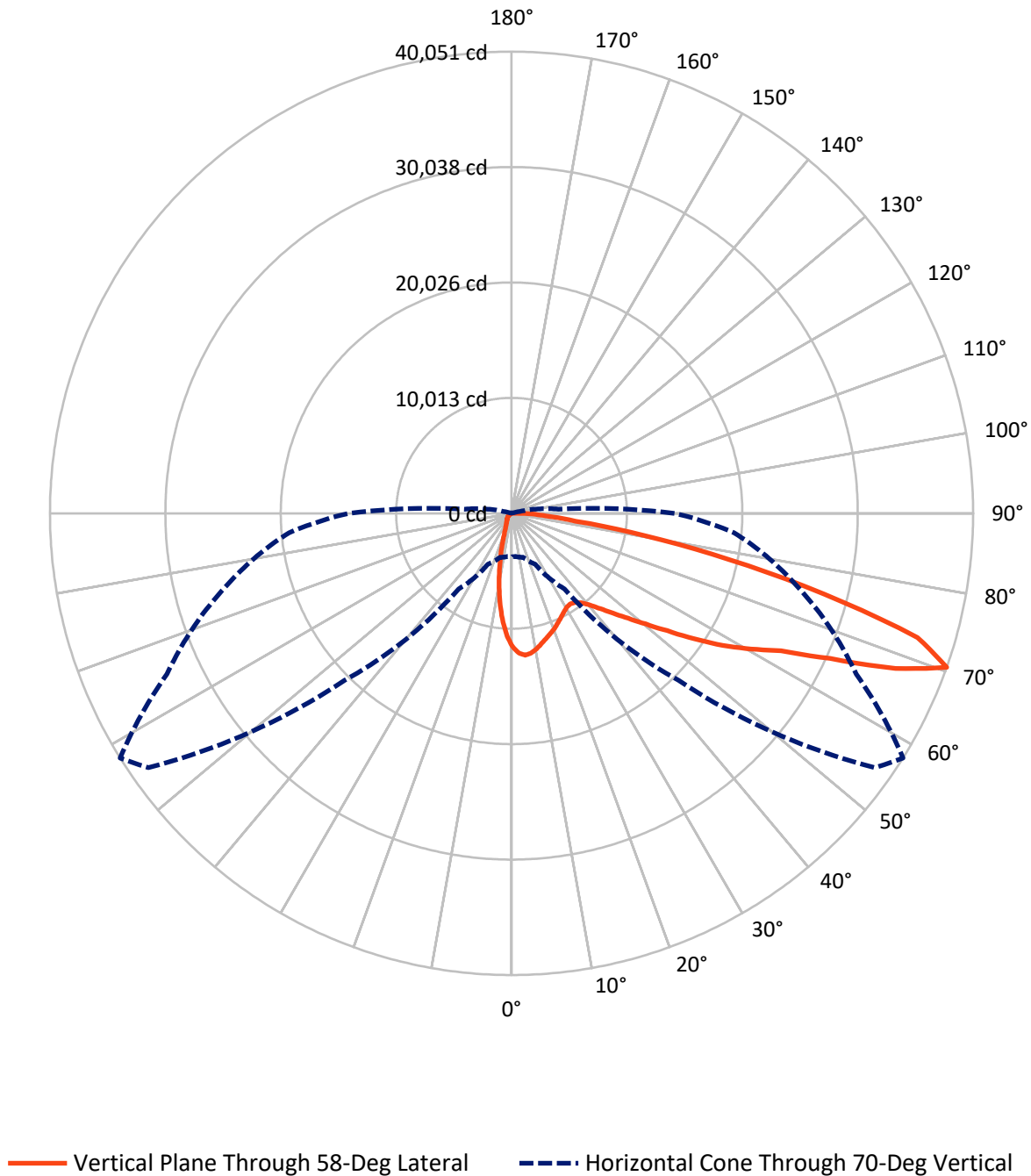
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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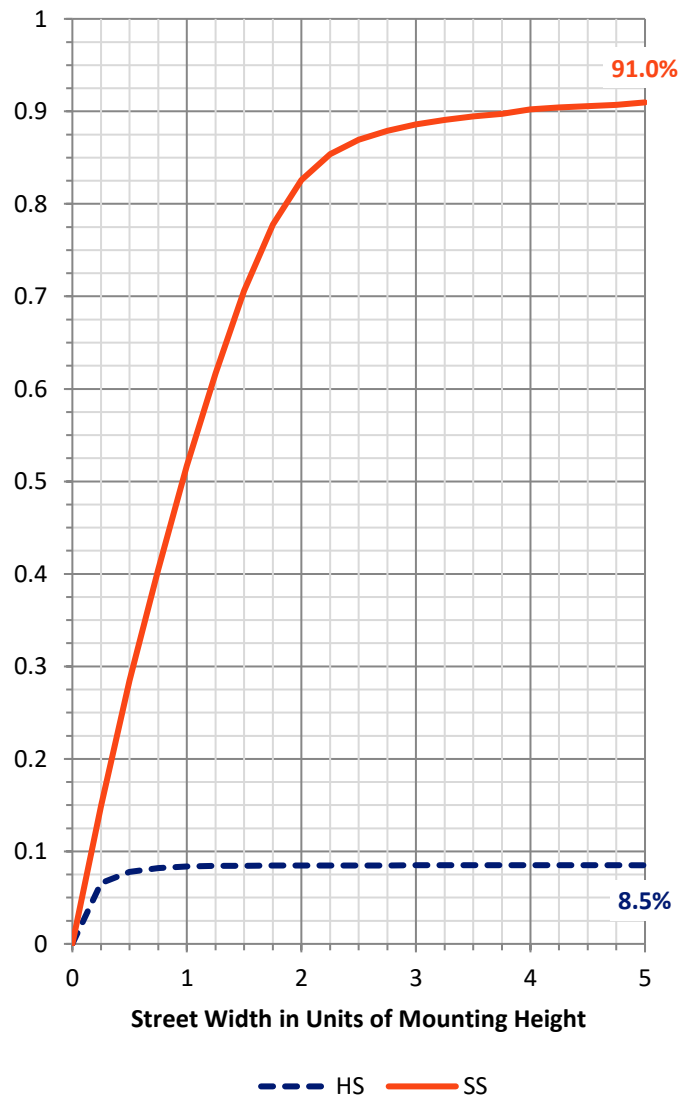
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3355.5	0.0	3355.5
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	35854.5	0.0	35854.5
	% Fixture	91.4	0.0	91.4
Total	Lumens	39210.0	0.0	39210.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	947.1	2.4
10°-20°	1987.8	5.1
20°-30°	2613.3	6.7
30°-40°	3461.1	8.8
40°-50°	5173.2	13.2
50°-60°	8287.3	21.1
60°-70°	10446.1	26.6
70°-80°	5634.5	14.4
80°-90°	659.5	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°	39210.0	100.0
0°-180°	39210.0	100.0

Coefficient of Utilization



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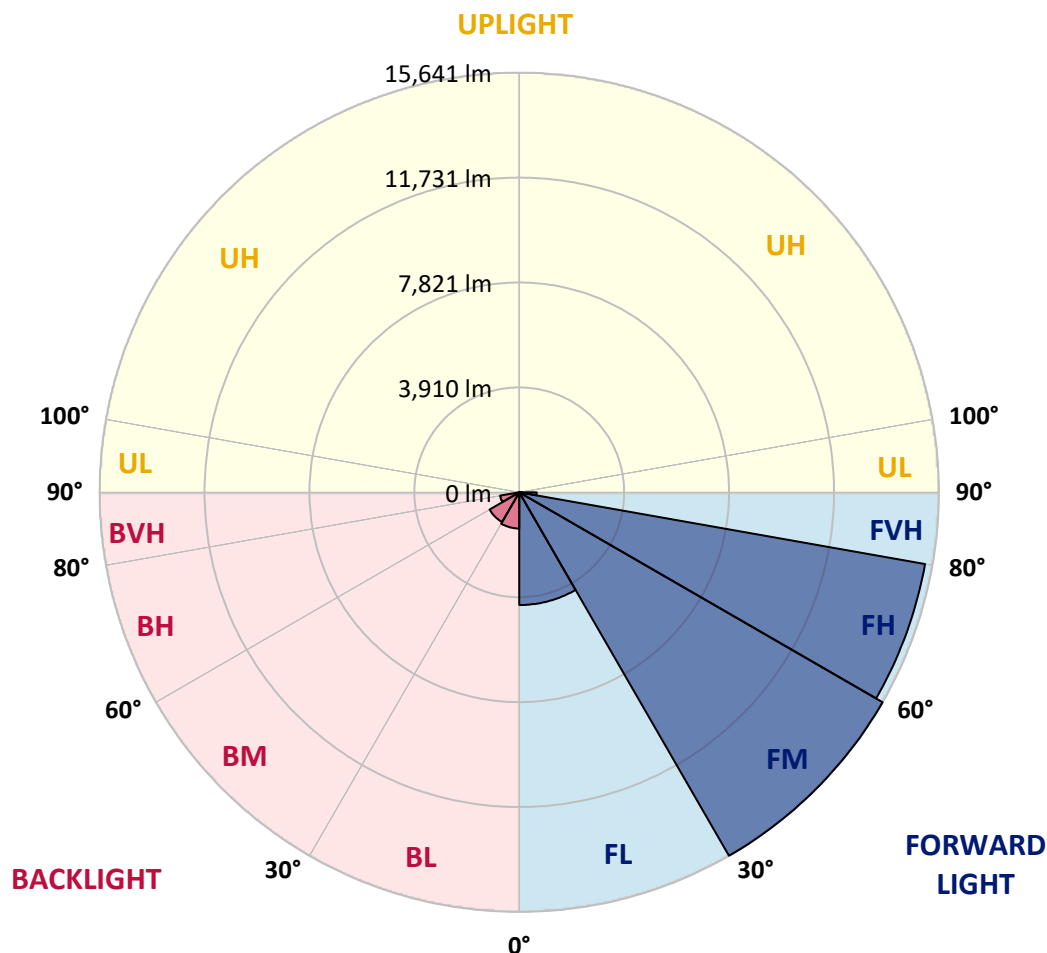
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4200.2	10.7			
FM	(30°-60°)	15641.5	39.9			
FH	(60°-80°)	15359.0	39.2			G5
FVH	(80°-90°)	653.8	1.7			G4/750
BL	(0°-30°)	1348.1	3.4	B3/2500		
BM	(30°-60°)	1280.1	3.3	B2/2500		
BH	(60°-80°)	721.6	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.7	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°	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4
2.5°	12542.8	12511.8	12500.4	12480.8	12405.8	12332.4	12187.3	12146.6	12055.3	11838.4	11608.5
5°	12552.5	12550.9	12585.2	12577.0	12550.9	12516.7	12412.3	12358.5	12203.6	11893.9	11473.2
7.5°	11947.7	11978.6	12055.3	12117.2	12189.0	12281.9	12294.9	12242.8	12115.6	11781.4	11223.8
10°	11135.7	11184.6	11292.2	11414.5	11602.0	11787.9	11954.2	11947.7	11903.6	11574.3	10923.8
12.5°	10322.1	10379.2	10503.1	10684.1	10949.8	11253.1	11549.8	11590.6	11664.0	11388.4	10646.6
15°	9609.6	9658.6	9780.8	10002.6	10331.9	10739.5	11174.8	11249.8	11439.0	11243.3	10415.1
17.5°	9004.8	9035.7	9125.4	9371.6	9753.1	10247.1	10812.9	10959.6	11241.7	11129.2	10214.5
20°	8582.5	8587.4	8646.1	8818.9	9200.4	9753.1	10437.9	10648.2	11033.0	11031.4	10007.5
22.5°	8373.8	8357.5	8368.9	8468.4	8748.8	9281.9	10062.9	10312.4	10845.5	10948.2	9797.1
25°	8334.7	8321.6	8289.0	8302.1	8471.6	8869.4	9684.6	9973.2	10680.8	10897.7	9614.5
27.5°	8456.9	8470.0	8414.6	8355.9	8368.9	8602.1	9348.8	9683.0	10547.1	10897.7	9485.7
30°	8703.1	8709.7	8668.9	8592.3	8489.6	8527.1	9115.6	9449.9	10480.3	10972.7	9404.2
32.5°	8975.4	9011.3	9006.4	8944.4	8797.7	8646.1	9060.2	9365.1	10475.4	11139.0	9396.1
35°	9312.9	9353.7	9422.2	9409.1	9255.9	9006.4	9249.3	9489.0	10571.6	11412.9	9484.1
37.5°	9671.6	9733.6	9880.3	9950.4	9851.0	9568.9	9673.2	9844.4	10829.2	11856.4	9707.5
40°	10018.9	10089.0	10356.4	10631.9	10556.9	10266.7	10315.6	10452.6	11287.3	12493.8	10131.4
42.5°	10359.6	10464.0	10856.9	11310.2	11399.8	11168.3	11194.4	11303.6	11967.2	13371.0	10824.3
45°	10767.2	10884.6	11466.7	12025.9	12265.6	12164.5	12275.4	12347.1	12855.8	14530.2	11758.5
47.5°	11365.6	11500.9	12215.0	12852.5	13273.2	13338.4	13561.8	13609.1	13979.2	15880.2	12976.5
50°	12533.0	12570.5	13216.1	13794.9	14401.4	14792.7	15047.1	15082.9	15338.9	17355.7	14497.6
52.5°	14002.0	14026.4	14391.6	14779.7	15469.4	16268.3	16863.4	16913.9	16967.7	18793.8	15999.2
55°	15461.2	15457.9	15699.2	15927.5	16716.6	17877.5	19168.8	19199.7	18813.3	20158.4	17147.0
57.5°	16372.6	16460.6	16827.5	17121.0	18223.1	19711.7	21503.5	21617.6	20751.9	21169.3	18281.8
60°	16082.4	16124.8	16938.4	18024.2	20099.7	22318.7	23866.0	23895.3	22209.5	22178.5	19716.6
62.5°	13702.0	13724.8	15003.1	17241.6	21050.3	25700.2	26715.9	26238.2	23885.5	23579.0	21433.4
65°	9391.2	9539.5	10607.5	13374.3	19304.1	27821.4	31127.8	30337.1	26440.4	25597.5	22985.6
67.5°	5530.4	5499.4	6027.6	8065.6	14178.1	26412.7	36708.7	35922.9	29924.6	26949.1	22530.7
70°	3777.7	3756.5	3958.6	4883.1	8003.7	20489.4	38464.7	40051.1	33001.2	26039.3	19390.5
72.5°	2696.7	2708.1	3006.5	3794.0	5024.9	11937.9	33077.8	36832.6	32037.6	22700.2	14738.9
75°	1831.0	1861.9	2289.1	3112.5	4405.4	6073.3	23473.0	27999.1	26088.2	16498.1	8471.6
77.5°	984.8	1019.0	1522.8	2507.6	3983.1	4219.5	15099.2	19269.8	16387.3	7416.7	2455.4
80°	410.9	430.4	712.5	1822.8	3441.8	3705.9	8884.1	11685.2	6983.1	1462.5	547.8
82.5°	177.7	187.5	296.7	1087.5	2572.8	3128.8	4703.7	5621.7	2116.3	321.2	275.5
85°	34.2	35.9	122.3	575.5	1641.8	1765.7	3048.9	2988.5	950.5	138.6	200.5
87.5°	0.0	0.0	29.3	181.0	482.6	961.9	1860.3	1837.5	322.8	66.8	75.0
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°	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4	11582.4
2.5°	11491.1	11378.6	11142.2	10850.4	10627.0	10380.8	10185.2	9937.4	9829.8	9834.6	9776.0
5°	11233.5	11002.0	10478.7	9818.3	9309.7	8784.7	8333.0	7883.0	7617.3	7530.9	7449.4
7.5°	10865.1	10498.2	9663.5	8646.1	7785.2	6943.9	6211.9	5567.9	5160.3	4961.3	4888.0
10°	10449.3	9934.1	8726.0	7385.8	6156.4	5018.4	4069.5	3244.5	2915.2	2691.8	2634.7
12.5°	10084.1	9386.3	7809.7	6092.9	4633.6	3260.8	2355.9	1842.4	1619.0	1531.0	1516.3
15°	9740.1	8874.3	6927.6	4922.2	3208.7	2007.0	1498.3	1323.9	1271.7	1257.0	1257.0
17.5°	9415.6	8386.8	6065.1	3769.5	2122.8	1407.0	1240.7	1201.6	1185.3	1183.7	1185.3
20°	9076.5	7899.3	5217.3	2761.9	1482.0	1191.8	1146.2	1125.0	1120.1	1120.1	1120.1
22.5°	8752.1	7411.9	4392.3	1972.8	1188.6	1087.5	1064.7	1050.0	1045.1	1043.5	1040.2
25°	8440.6	6948.8	3586.9	1394.0	1043.5	996.2	976.6	957.1	942.4	934.2	929.3
27.5°	8184.7	6536.3	2836.9	1118.5	942.4	901.6	877.2	847.8	811.9	795.6	789.1
30°	7980.9	6159.7	2186.4	944.0	847.8	807.1	769.6	719.0	666.8	639.1	637.5
32.5°	7821.1	5789.6	1659.8	834.8	763.0	712.5	658.7	595.1	534.8	503.8	502.2
35°	7742.8	5463.5	1268.5	754.9	688.0	624.4	557.6	487.5	428.8	399.5	396.2
37.5°	7795.0	5188.0	989.7	688.0	624.4	551.1	472.8	399.5	347.3	321.2	319.6
40°	7985.8	5011.9	803.8	631.0	570.6	481.0	396.2	327.7	283.7	262.5	260.9
42.5°	8391.7	4946.7	686.4	583.7	518.5	415.8	329.3	270.6	229.9	215.2	212.0
45°	9070.0	5042.9	606.5	538.0	464.7	353.8	272.3	221.7	185.9	174.5	172.8
47.5°	9973.2	5295.6	549.4	494.0	415.8	298.4	226.6	179.3	151.6	140.2	138.6
50°	11137.3	5696.7	502.2	450.0	370.1	252.7	187.5	141.8	117.4	109.2	109.2
52.5°	12404.2	6174.4	459.8	409.2	324.5	210.3	151.6	109.2	92.9	83.2	83.2
55°	13450.9	6591.8	414.1	378.3	269.0	174.5	115.8	83.2	68.5	63.6	63.6
57.5°	14496.0	7036.9	362.0	324.5	215.2	141.8	88.0	62.0	50.5	47.3	47.3
60°	15850.9	7581.4	311.4	264.1	169.6	107.6	65.2	44.0	37.5	35.9	35.9
62.5°	17341.1	7901.0	265.8	212.0	132.1	79.9	47.3	29.3	27.7	27.7	26.1
65°	18252.5	7449.4	223.4	169.6	102.7	60.3	31.0	21.2	24.5	22.8	19.6
67.5°	17090.0	5832.0	182.6	132.1	79.9	45.7	19.6	14.7	26.1	21.2	16.3
70°	14150.3	4082.6	141.8	92.9	63.6	39.1	13.0	9.8	27.7	21.2	13.0
72.5°	10589.5	2732.6	112.5	62.0	47.3	34.2	11.4	4.9	24.5	17.9	11.4
75°	5786.3	1100.5	89.7	39.1	29.3	24.5	8.2	3.3	16.3	13.0	8.2
77.5°	1522.8	290.2	65.2	26.1	16.3	9.8	4.9	1.6	8.2	6.5	3.3
80°	388.0	112.5	42.4	17.9	11.4	4.9	0.0	0.0	1.6	0.0	0.0
82.5°	207.1	47.3	26.1	13.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	156.5	31.0	14.7	8.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	60.3	9.8	4.9	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)