

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: P321393

Luminaire Tested: **GAN-SA9A-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24721 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

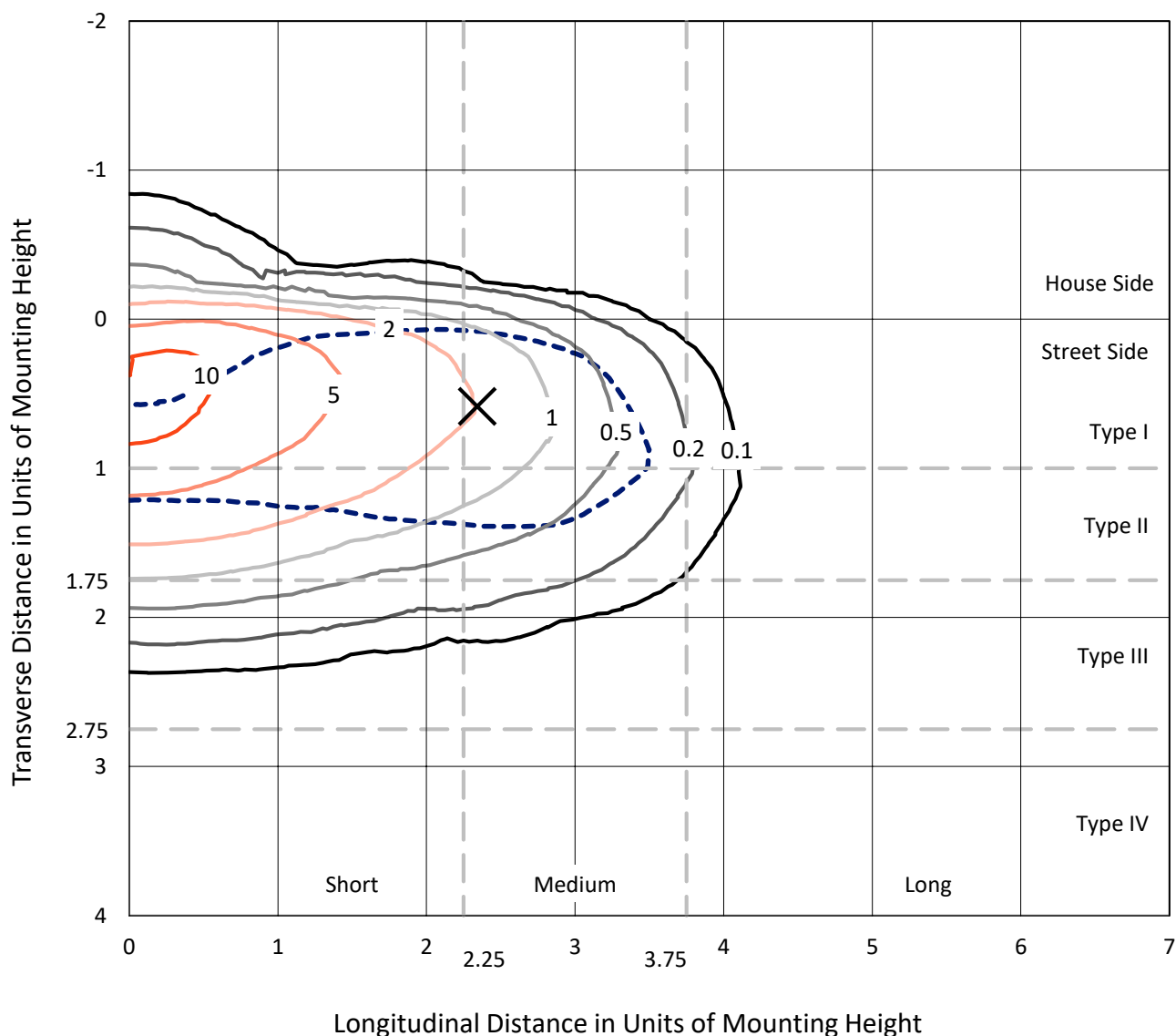
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

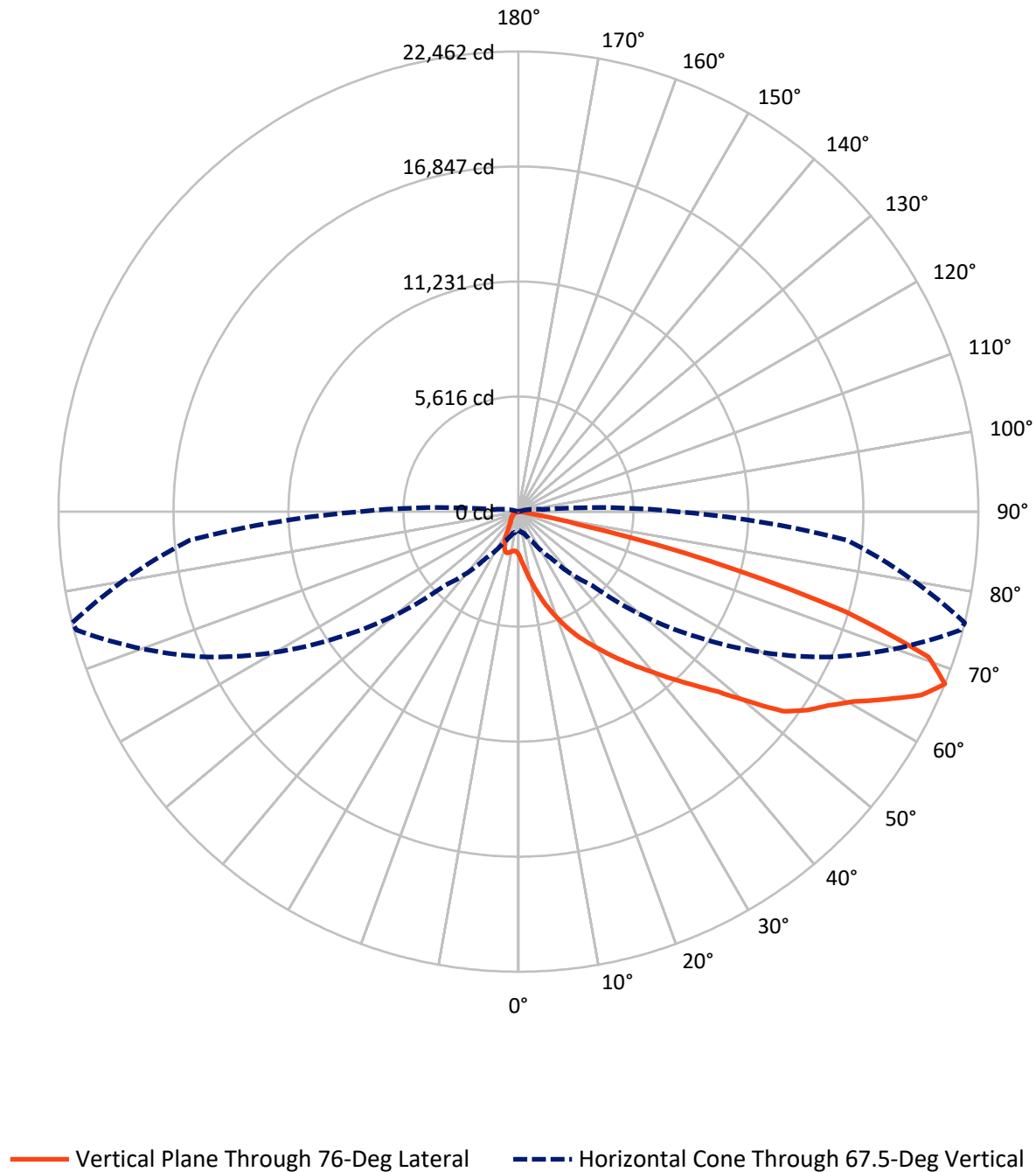
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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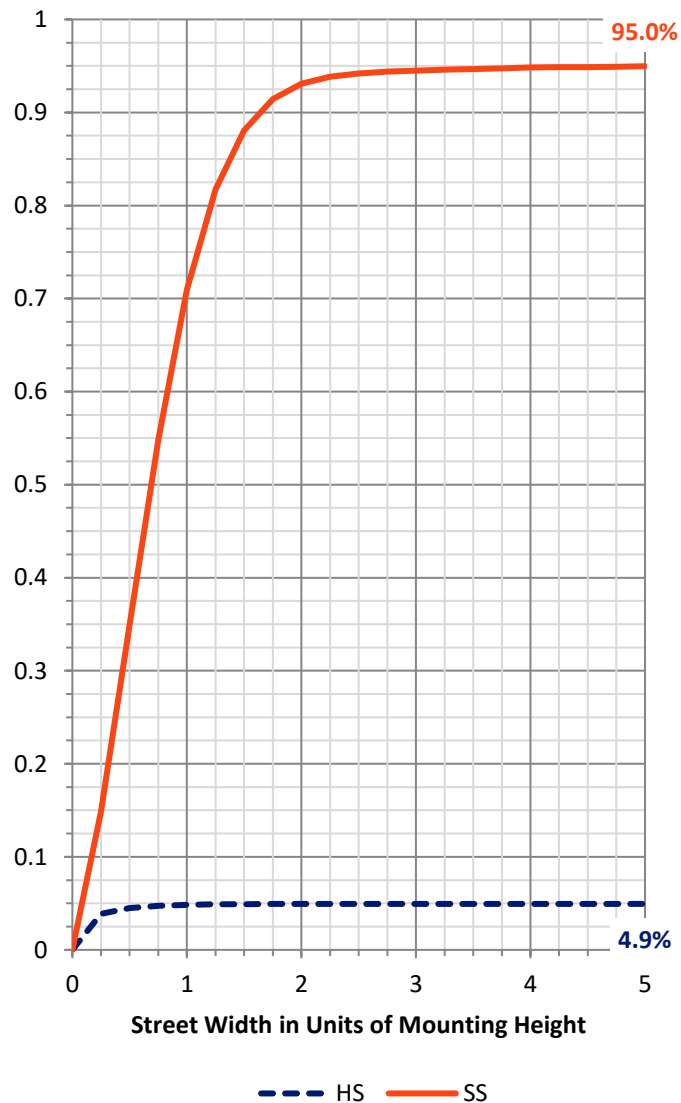
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1227.6	0.0	1227.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	23493.4	0.0	23493.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	24721.0	0.0	24721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.8	1.1
10°-20°	1033.7	4.2
20°-30°	2103.3	8.5
30°-40°	3650.6	14.8
40°-50°	5157.8	20.9
50°-60°	5849.2	23.7
60°-70°	4851.4	19.6
70°-80°	1757.3	7.1
80°-90°	57.0	0.2
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°	24721.0	100.0
0°-180°	24721.0	100.0

Coefficient of Utilization



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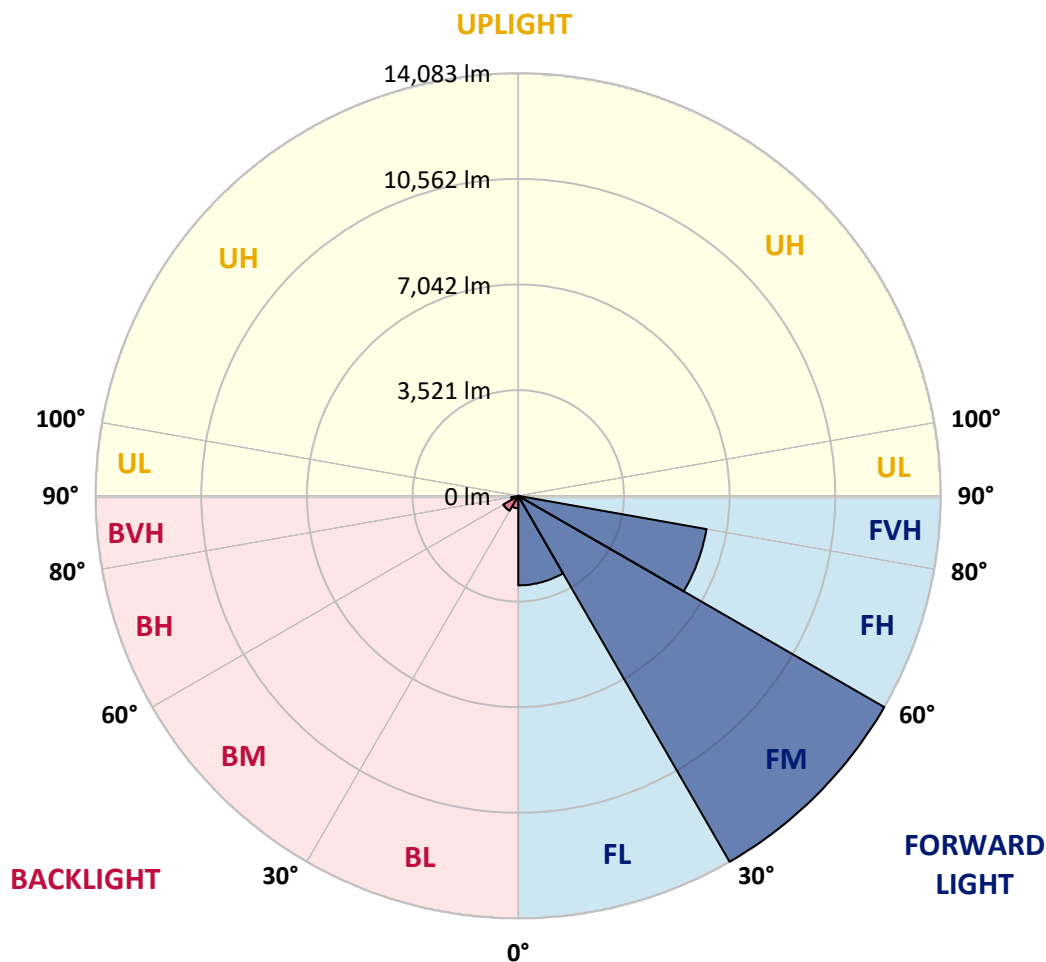
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2983.7	12.1			
FM	(30°-60°)	14083.1	57.0			
FH	(60°-80°)	6371.4	25.8			G3/7500
FVH	(80°-90°)	55.2	0.2			G1/100
BL	(0°-30°)	414.0	1.7	B1/500		
BM	(30°-60°)	574.5	2.3	B1/1000		
BH	(60°-80°)	237.2	1.0	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1
2.5°	3130.4	3060.0	3076.3	3030.8	2948.4	2779.5	2635.4	2498.9	2339.7	2334.3	2203.2
5°	4221.2	4161.6	4154.0	4062.0	3912.5	3625.4	3346.0	3027.5	2672.2	2646.2	2367.9
7.5°	5211.2	5163.6	5146.2	5036.8	4758.5	4479.0	4115.0	3647.1	3091.4	3043.8	2589.9
10°	5971.6	5948.9	5953.2	5875.2	5636.9	5377.0	4899.3	4302.4	3566.9	3493.3	2856.4
12.5°	6547.9	6553.3	6592.3	6544.6	6411.4	6218.6	5708.4	5001.1	4093.4	3992.6	3160.7
15°	6971.4	6998.5	7070.0	7129.6	7119.8	6953.0	6485.1	5710.6	4652.3	4540.7	3499.8
17.5°	7245.5	7275.8	7379.8	7511.9	7633.2	7594.2	7234.6	6395.2	5217.7	5088.8	3862.7
20°	7485.9	7521.7	7633.2	7807.6	8034.0	8082.8	7846.6	7059.2	5782.1	5625.0	4237.4
22.5°	8006.9	8005.9	8074.1	8175.9	8391.5	8517.1	8367.6	7675.5	6339.9	6176.4	4619.8
25°	8949.3	8913.6	8889.7	8809.6	8857.2	8935.2	8851.8	8251.7	6901.0	6735.3	5007.6
27.5°	10069.3	10091.0	9898.2	9682.6	9515.8	9435.7	9299.2	8785.8	7440.4	7258.5	5386.7
30°	11251.1	11257.6	11030.1	10755.0	10387.8	10083.4	9847.3	9295.9	7995.0	7796.8	5755.0
32.5°	12317.0	12274.7	12049.4	11674.6	11211.0	10868.7	10378.0	9865.7	8582.1	8390.4	6164.4
35°	13161.8	13112.0	12838.0	12496.8	12015.8	11671.4	11081.0	10434.4	9199.5	9012.1	6575.0
37.5°	13779.3	13720.8	13439.1	13088.2	12673.3	12472.9	11896.7	11052.9	9873.3	9671.8	7007.2
40°	13993.7	13942.8	13766.3	13509.6	13175.9	13130.4	12762.2	11764.5	10606.6	10392.1	7496.8
42.5°	13865.9	13816.1	13753.3	13666.6	13528.0	13571.3	13578.9	12575.8	11421.2	11209.9	8037.3
45°	13359.0	13314.6	13379.6	13506.3	13678.5	13893.0	14324.1	13447.8	12331.0	12105.7	8662.3
47.5°	12612.7	12580.2	12760.0	13076.3	13580.0	14171.4	15005.4	14364.2	13352.5	13143.4	9442.2
50°	11551.1	11545.7	11905.3	12482.7	13257.2	14305.7	15709.5	15406.2	14771.5	14551.6	10526.4
52.5°	9898.2	9909.0	10616.3	11540.3	12690.7	14214.7	16162.3	16745.0	16422.3	16193.7	11465.6
55°	8324.3	8389.3	8890.8	10223.2	11821.9	13876.8	16318.3	17370.0	17333.2	17116.6	11987.7
57.5°	6782.9	6901.0	7384.1	8628.7	10553.5	13097.9	16232.7	17640.8	18011.3	17845.6	12676.6
60°	5112.7	5166.8	5723.6	6886.9	8925.5	11676.8	15612.0	17788.2	18938.5	18823.7	13676.4
62.5°	3252.8	3388.2	3882.2	5004.3	6949.8	9703.2	14565.7	17786.0	20098.6	20161.4	14966.4
65°	1713.6	1871.8	2133.9	3101.2	4775.8	7498.9	12991.8	17619.2	21521.9	21609.7	15974.9
67.5°	924.0	969.5	1108.1	1609.6	2769.7	5080.2	10679.2	16796.0	22346.2	22462.1	16115.7
70°	675.9	700.8	752.8	890.4	1394.1	2950.6	7792.5	14929.6	21283.6	21240.3	14318.7
72.5°	518.8	557.8	596.8	652.1	801.6	1575.0	4851.6	11690.9	16982.3	16696.3	10703.0
75°	409.4	415.9	471.2	521.0	601.2	896.9	2154.5	6808.9	10365.0	9688.1	5550.3
77.5°	327.1	331.5	364.0	407.3	483.1	589.3	667.2	2678.7	3309.1	2952.8	1204.5
80°	193.9	204.7	270.8	314.1	400.8	371.5	243.7	581.7	516.7	467.9	202.6
82.5°	108.3	117.0	152.7	248.1	279.5	177.6	121.3	157.1	121.3	118.1	57.4
85°	0.0	5.4	98.6	153.8	113.7	39.0	50.9	52.0	35.7	33.6	22.7
87.5°	0.0	0.0	30.3	29.2	4.3	6.5	11.9	17.3	14.1	14.1	11.9
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°	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1	2097.1
2.5°	2138.2	2079.7	1969.2	1860.9	1769.9	1695.2	1628.0	1601.0	1579.3	1576.0	1558.7
5°	2233.5	2115.5	1904.2	1730.9	1615.0	1532.7	1462.3	1419.0	1385.4	1372.4	1360.5
7.5°	2377.6	2198.9	1895.6	1696.3	1557.6	1419.0	1289.0	1148.2	1060.4	1026.9	1007.4
10°	2553.1	2309.4	1928.1	1686.5	1443.9	1151.4	935.9	757.2	684.6	660.7	654.2
12.5°	2757.8	2446.9	1984.4	1625.9	1201.3	817.8	645.6	584.9	568.7	561.1	561.1
15°	2992.9	2597.5	2024.5	1450.4	888.2	618.5	558.9	530.8	513.4	503.7	504.8
17.5°	3233.3	2744.8	2005.0	1195.8	655.3	550.3	505.8	475.5	451.7	441.9	439.8
20°	3476.0	2881.3	1896.7	890.4	554.6	499.4	449.5	415.9	392.1	382.4	380.2
22.5°	3727.3	2997.2	1706.0	653.2	498.3	443.0	394.3	360.7	338.0	329.3	325.0
25°	3972.1	3091.4	1439.6	528.6	445.2	389.9	343.4	312.0	291.4	282.7	281.6
27.5°	4200.6	3151.0	1130.9	466.9	398.6	342.3	300.0	271.9	254.5	248.1	247.0
30°	4406.4	3156.4	836.2	421.4	357.5	301.1	262.1	237.2	222.1	215.6	213.4
32.5°	4614.4	3110.9	608.8	380.2	319.5	265.4	227.5	208.0	197.1	191.7	191.7
35°	4810.4	3005.9	474.4	344.5	282.7	230.7	200.4	186.3	179.8	174.4	174.4
37.5°	5002.2	2855.3	402.9	313.0	248.1	201.5	176.6	167.9	162.5	157.1	157.1
40°	5197.1	2665.7	366.1	283.8	219.9	178.7	157.1	149.5	144.1	139.7	138.6
42.5°	5436.5	2446.9	342.3	256.7	195.0	158.1	138.6	130.0	125.7	121.3	119.2
45°	5713.8	2258.5	322.8	229.6	174.4	140.8	120.2	111.6	105.1	99.7	98.6
47.5°	6113.5	2122.0	296.8	200.4	154.9	122.4	104.0	94.2	84.5	79.1	78.0
50°	6623.7	2009.3	263.2	174.4	135.4	104.0	86.7	74.7	66.1	60.7	60.7
52.5°	6877.2	1862.0	232.9	151.6	113.7	87.7	70.4	56.3	52.0	46.6	46.6
55°	6979.0	1749.4	202.6	128.9	94.2	72.6	55.2	43.3	40.1	36.8	35.7
57.5°	7265.0	1716.9	176.6	109.4	78.0	57.4	42.2	32.5	30.3	26.0	26.0
60°	7725.3	1733.1	152.7	93.2	62.8	44.4	31.4	24.9	22.7	18.4	18.4
62.5°	8222.5	1712.5	128.9	80.2	48.7	32.5	21.7	18.4	18.4	10.8	9.7
65°	8317.8	1525.1	110.5	66.1	37.9	23.8	14.1	11.9	16.2	2.2	0.0
67.5°	7719.9	1182.8	95.3	50.9	28.2	18.4	10.8	5.4	14.1	0.0	0.0
70°	6173.1	751.7	76.9	36.8	21.7	15.2	8.7	2.2	10.8	0.0	0.0
72.5°	4365.3	436.5	60.7	26.0	18.4	11.9	6.5	0.0	6.5	0.0	0.0
75°	2207.5	232.9	37.9	19.5	14.1	8.7	4.3	0.0	1.1	0.0	0.0
77.5°	477.7	108.3	23.8	14.1	9.7	5.4	2.2	0.0	0.0	0.0	0.0
80°	104.0	47.7	15.2	8.7	5.4	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	37.9	24.9	7.6	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.6	13.0	4.3	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	4.3	1.1	1.1	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)