

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: P322092

Luminaire Tested: **GAN-SA8C-830-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-830-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32046 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 445
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

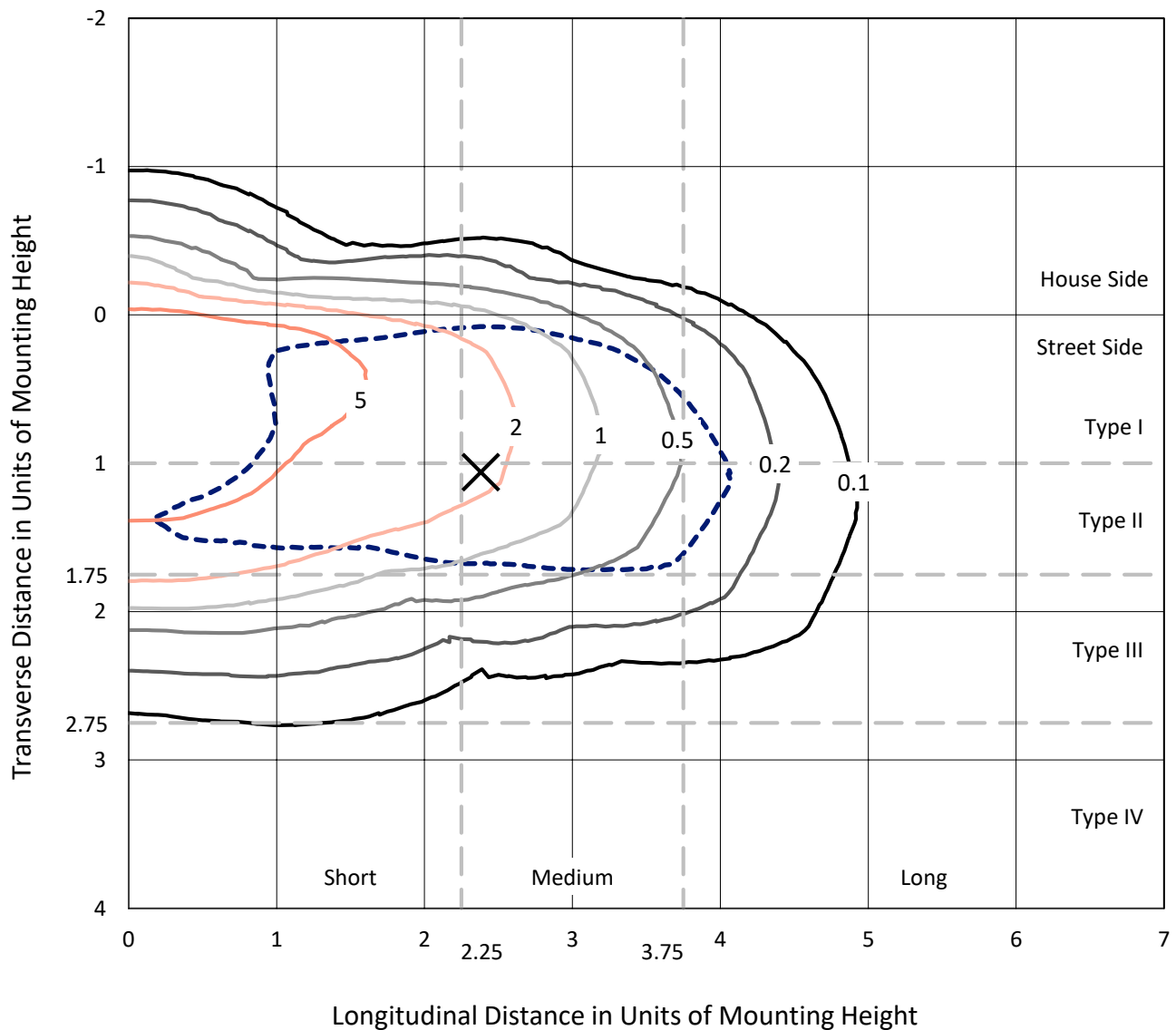


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Iso-Footcandle Lines of Horizontal Illumination

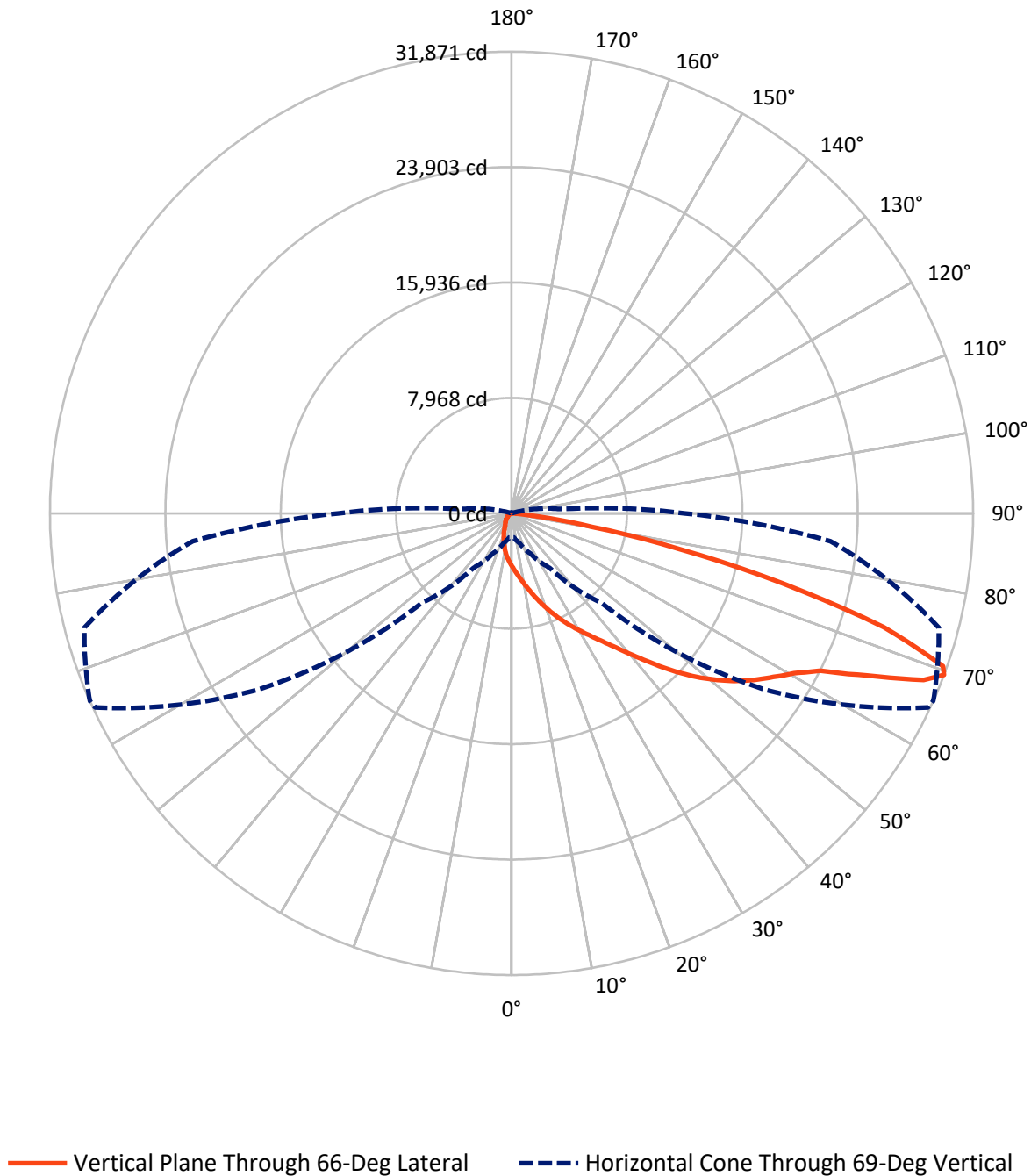
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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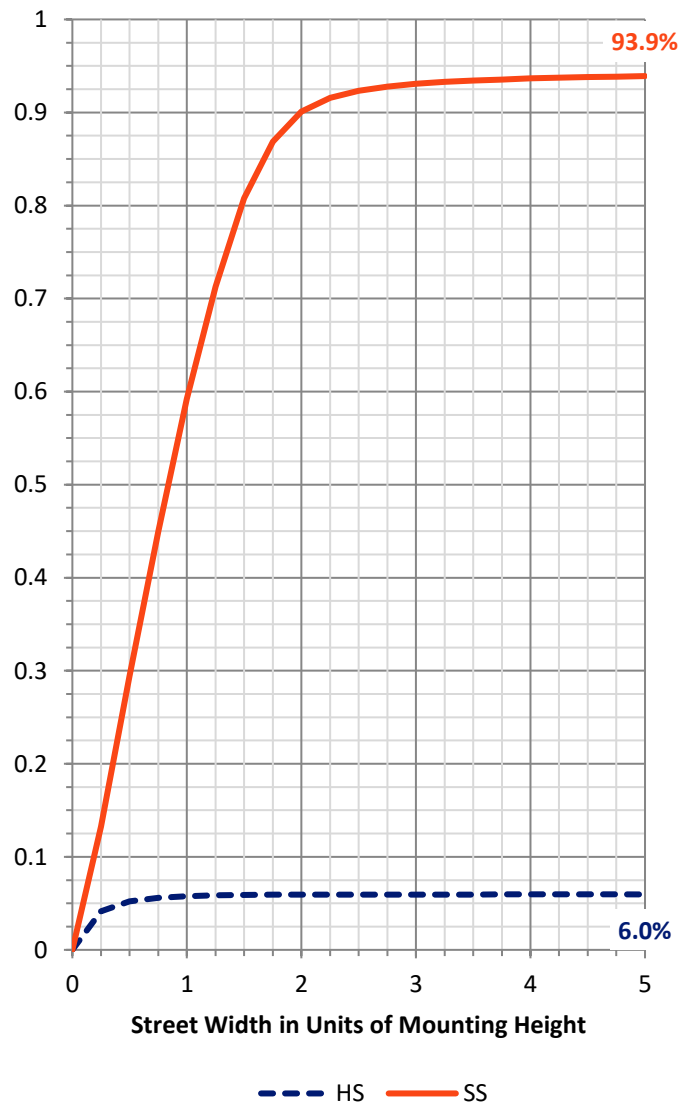
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1922.3	0.0	1922.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	30123.7	0.0	30123.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	32046.0	0.0	32046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.5	1.1
10°-20°	1049.2	3.3
20°-30°	1827.0	5.7
30°-40°	3205.5	10.0
40°-50°	5365.5	16.7
50°-60°	7886.7	24.6
60°-70°	8097.7	25.3
70°-80°	3997.6	12.5
80°-90°	264.3	0.8
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°	32046.0	100.0
0°-180°	32046.0	100.0

Coefficient of Utilization



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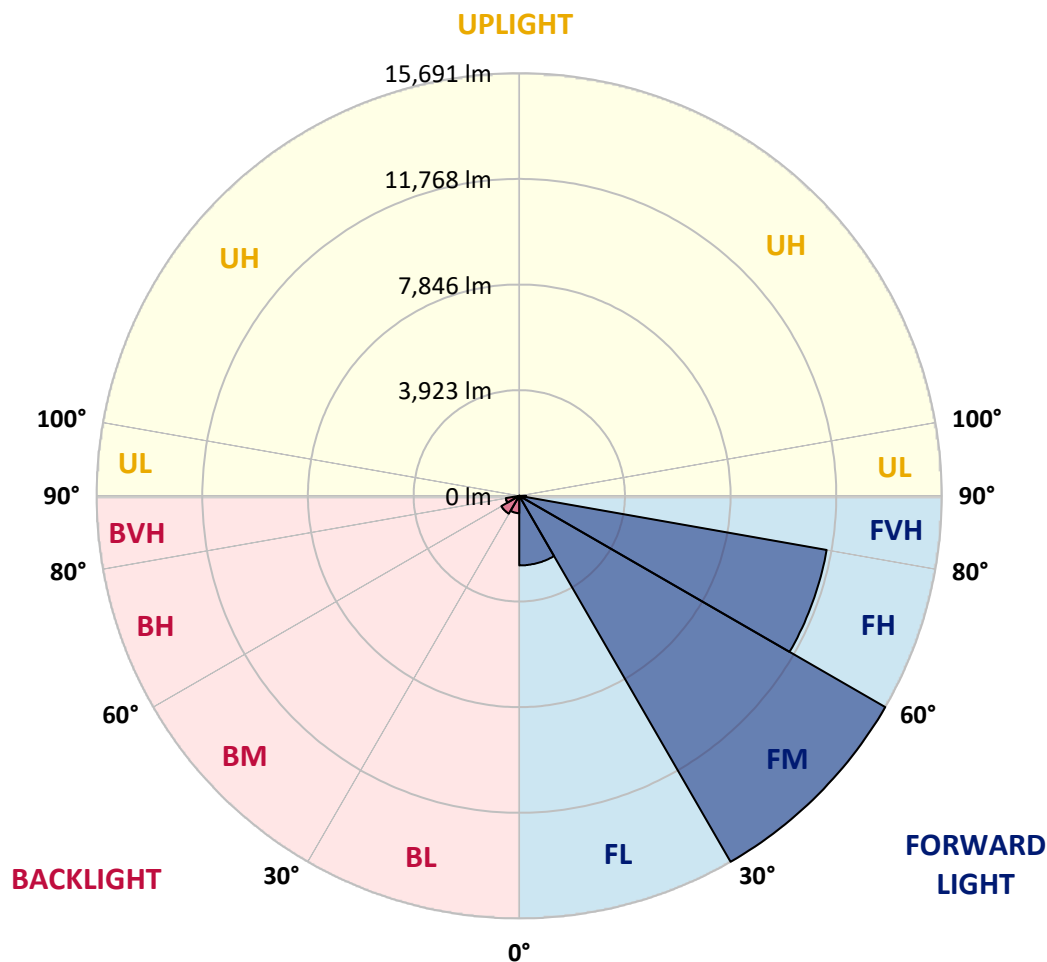
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2585.8	8.1			
FM	(30°-60°)	15691.3	49.0			
FH	(60°-80°)	11588.7	36.2			G4/12000
FVH	(80°-90°)	257.9	0.8			G3/500
BL	(0°-30°)	642.9	2.0	B2/1000		
BM	(30°-60°)	766.4	2.4	B1/1000		
BH	(60°-80°)	506.6	1.6	B2/1000		G2/1000
BVH	(80°-90°)	6.4	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	4292.3	4274.0	4266.4	4232.9	4175.1	4131.0	4045.7	3946.8	3928.5	3832.6	3715.4
5°	4849.4	4834.2	4823.5	4776.3	4717.0	4605.9	4450.6	4266.4	4231.4	4048.8	3814.4
7.5°	5237.5	5264.9	5264.9	5234.5	5159.9	5076.2	4885.9	4634.8	4590.6	4310.6	3946.8
10°	5464.3	5497.8	5523.7	5549.6	5538.9	5505.4	5325.8	5042.7	4989.4	4618.0	4100.5
12.5°	5485.6	5519.1	5592.2	5700.2	5805.3	5881.4	5768.7	5494.8	5433.9	4974.2	4283.2
15°	5366.9	5401.9	5514.5	5724.6	5978.8	6201.0	6237.5	5995.5	5933.1	5398.9	4511.5
17.5°	5159.9	5182.7	5344.1	5634.8	6033.6	6441.5	6662.2	6532.8	6475.0	5884.4	4765.7
20°	5006.2	5022.9	5164.5	5476.5	6000.1	6592.2	7064.0	7103.6	7042.7	6405.0	5041.2
22.5°	5269.5	5299.9	5304.5	5452.1	5908.8	6666.8	7417.2	7665.3	7619.6	6957.5	5312.1
25°	5989.4	6024.4	5908.8	5817.4	5986.4	6700.3	7720.1	8240.6	8204.1	7552.6	5584.6
27.5°	6940.7	6977.3	6828.1	6555.7	6392.8	6826.6	7989.5	8825.1	8823.6	8182.8	5878.3
30°	7875.3	7911.8	7759.6	7487.2	7112.7	7184.3	8222.4	9437.0	9446.1	8832.7	6190.4
32.5°	8855.5	8901.2	8744.4	8394.3	8003.2	7802.3	8549.6	10051.9	10103.7	9586.1	6542.0
35°	9969.7	9975.8	9755.1	9388.3	8937.7	8628.8	9074.7	10741.4	10864.7	10519.2	6987.9
37.5°	11062.6	11106.7	10925.6	10347.2	9933.2	9583.1	9855.6	11602.9	11778.0	11659.2	7570.9
40°	11872.3	11965.2	11939.3	11315.2	10922.5	10672.9	10825.1	12627.3	12849.5	12986.5	8306.1
42.5°	12380.7	12450.7	12569.5	12193.5	11837.3	11878.4	11969.7	13820.6	14094.6	14499.5	9150.8
45°	12963.7	12997.2	13096.1	12930.2	12689.7	13103.7	13184.4	15164.6	15452.3	16126.6	10088.4
47.5°	13676.0	13755.2	13782.6	13630.4	13520.8	14187.4	14354.9	16386.9	16790.2	17869.4	11080.8
50°	14583.2	14604.5	14651.7	14552.7	14443.2	15119.0	15405.1	17670.0	18036.8	19618.3	12059.6
52.5°	15470.6	15546.7	15711.1	15648.7	15604.5	15912.0	16341.2	18826.8	19236.2	21076.4	13036.7
55°	15726.3	15791.7	16359.5	16747.6	17106.8	16889.2	17236.2	19863.3	20306.3	22379.4	13977.4
57.5°	14705.0	14837.4	15820.6	16831.3	18321.4	18408.2	18466.0	20927.3	21324.5	23377.8	14956.1
60°	12123.5	12149.4	13762.8	15496.4	18120.5	19734.0	20262.1	22070.4	22403.7	24307.8	16128.1
62.5°	7710.9	7974.3	9744.4	12192.0	15995.7	19542.2	22434.1	23799.5	23921.2	25423.5	17808.5
65°	3672.8	3843.3	5118.8	7532.8	11586.2	17087.0	23933.4	26927.4	26982.2	27635.1	20053.6
67.5°	2033.5	2115.7	2723.0	4054.9	6773.3	12083.9	23327.6	30632.1	30683.9	29893.9	22023.2
69°	1590.6	1660.6	2138.5	3056.4	4592.2	8685.1	21109.9	31717.4	31871.1	30540.8	22093.2
70°	1350.1	1418.6	1841.7	2581.5	3692.6	6710.9	18790.3	31448.0	31610.9	30479.9	21571.1
72.5°	826.5	866.1	1226.8	1817.4	2474.9	3376.0	11587.7	26595.6	26871.1	27959.3	18539.1
75°	557.1	578.4	767.1	1254.2	1770.2	1738.2	6019.9	18746.1	19342.8	21749.2	13692.8
77.5°	398.8	418.6	514.5	811.3	1240.5	1147.7	2726.1	11650.1	11778.0	13044.3	7467.4
80°	226.8	245.1	363.8	482.5	841.7	765.6	1083.7	5564.8	5628.7	5593.7	2493.2
82.5°	118.7	133.9	199.4	318.1	540.3	500.8	450.5	1863.0	1872.2	1557.1	546.4
85°	22.8	27.4	98.9	217.7	278.5	217.7	184.2	436.8	446.0	394.2	135.5
87.5°	0.0	1.5	39.6	48.7	54.8	56.3	59.4	85.2	91.3	123.3	36.5
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°	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9	3646.9
2.5°	3663.7	3608.9	3503.9	3382.1	3287.7	3194.9	3121.8	3045.7	3018.3	3004.6	3003.1
5°	3700.2	3584.5	3362.3	3134.0	2946.8	2770.2	2643.9	2523.6	2467.3	2441.4	2430.8
7.5°	3761.1	3575.4	3217.7	2869.1	2599.7	2379.0	2204.0	2073.1	2007.6	1980.2	1969.6
10°	3832.6	3563.2	3048.8	2589.1	2245.1	2016.8	1843.3	1713.9	1642.3	1611.9	1596.7
12.5°	3916.3	3541.9	2853.9	2306.0	1942.2	1713.9	1503.8	1344.0	1261.8	1226.8	1210.1
15°	4019.9	3520.6	2650.0	2039.6	1675.8	1397.3	1167.4	1059.4	1042.6	1036.5	1038.1
17.5°	4121.8	3487.1	2427.7	1776.3	1395.8	1091.3	974.1	968.1	971.1	971.1	971.1
20°	4213.2	3411.0	2185.7	1551.0	1129.4	920.9	896.5	885.9	878.2	872.2	864.5
22.5°	4284.7	3309.0	1952.8	1327.3	922.4	843.2	805.2	771.7	744.3	726.0	716.9
25°	4333.4	3173.6	1739.8	1112.7	829.5	767.1	698.6	642.3	599.7	573.8	563.2
27.5°	4369.9	3027.4	1549.5	931.5	765.6	678.9	589.1	522.1	477.9	455.1	446.0
30°	4395.8	2861.5	1382.1	818.9	694.1	586.0	490.1	424.7	392.7	380.5	374.4
32.5°	4420.2	2677.4	1223.8	765.6	627.1	500.8	411.0	360.7	340.9	325.7	321.2
35°	4481.0	2506.9	1073.1	709.3	558.6	427.7	353.1	316.6	296.8	287.7	284.6
37.5°	4625.6	2380.6	928.5	651.5	490.1	369.9	309.0	283.1	264.8	255.7	252.7
40°	4858.5	2316.6	806.7	589.1	423.1	325.7	280.1	255.7	235.9	222.2	219.2
42.5°	5201.0	2325.8	721.5	526.6	369.9	290.7	252.7	223.7	202.4	190.3	187.2
45°	5616.5	2392.7	662.1	465.8	325.7	263.3	222.2	191.8	172.0	161.3	158.3
47.5°	6067.1	2500.8	613.4	411.0	290.7	237.4	191.8	159.8	143.1	133.9	132.4
50°	6542.0	2605.8	563.2	357.7	260.3	211.6	161.3	132.4	118.7	111.1	108.1
52.5°	7022.9	2727.6	517.5	309.0	234.4	181.1	133.9	108.1	97.4	91.3	88.3
55°	7540.5	2818.9	473.4	270.9	208.5	153.7	111.1	89.8	80.7	73.1	71.5
57.5°	8149.3	2960.5	427.7	234.4	178.1	127.9	91.3	71.5	63.9	56.3	54.8
60°	8971.2	3126.4	379.0	207.0	146.1	105.0	74.6	57.8	48.7	42.6	41.1
62.5°	10055.0	3310.6	318.1	181.1	118.7	85.2	59.4	45.7	35.0	27.4	27.4
65°	11429.4	3610.4	260.3	152.2	97.4	70.0	45.7	33.5	19.8	12.2	12.2
67.5°	12231.5	3662.2	210.0	124.8	79.1	59.4	38.1	22.8	6.1	1.5	0.0
69°	11974.3	3362.3	178.1	106.5	68.5	56.3	35.0	16.7	3.0	0.0	0.0
70°	11490.3	3074.6	156.8	94.4	62.4	53.3	33.5	12.2	3.0	0.0	0.0
72.5°	9494.8	2188.8	118.7	70.0	45.7	47.2	30.4	7.6	3.0	0.0	0.0
75°	6916.4	1330.3	85.2	48.7	28.9	35.0	21.3	3.0	1.5	0.0	0.0
77.5°	3847.9	627.1	53.3	27.4	18.3	21.3	10.7	0.0	0.0	0.0	0.0
80°	1249.6	170.5	24.4	15.2	10.7	12.2	4.6	0.0	0.0	0.0	0.0
82.5°	231.4	48.7	13.7	7.6	3.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	50.2	19.8	7.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.7	6.1	1.5	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)