

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: P321204

Luminaire Tested: **GAN-SA0B-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321204
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-SA0B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA 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: 38182 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

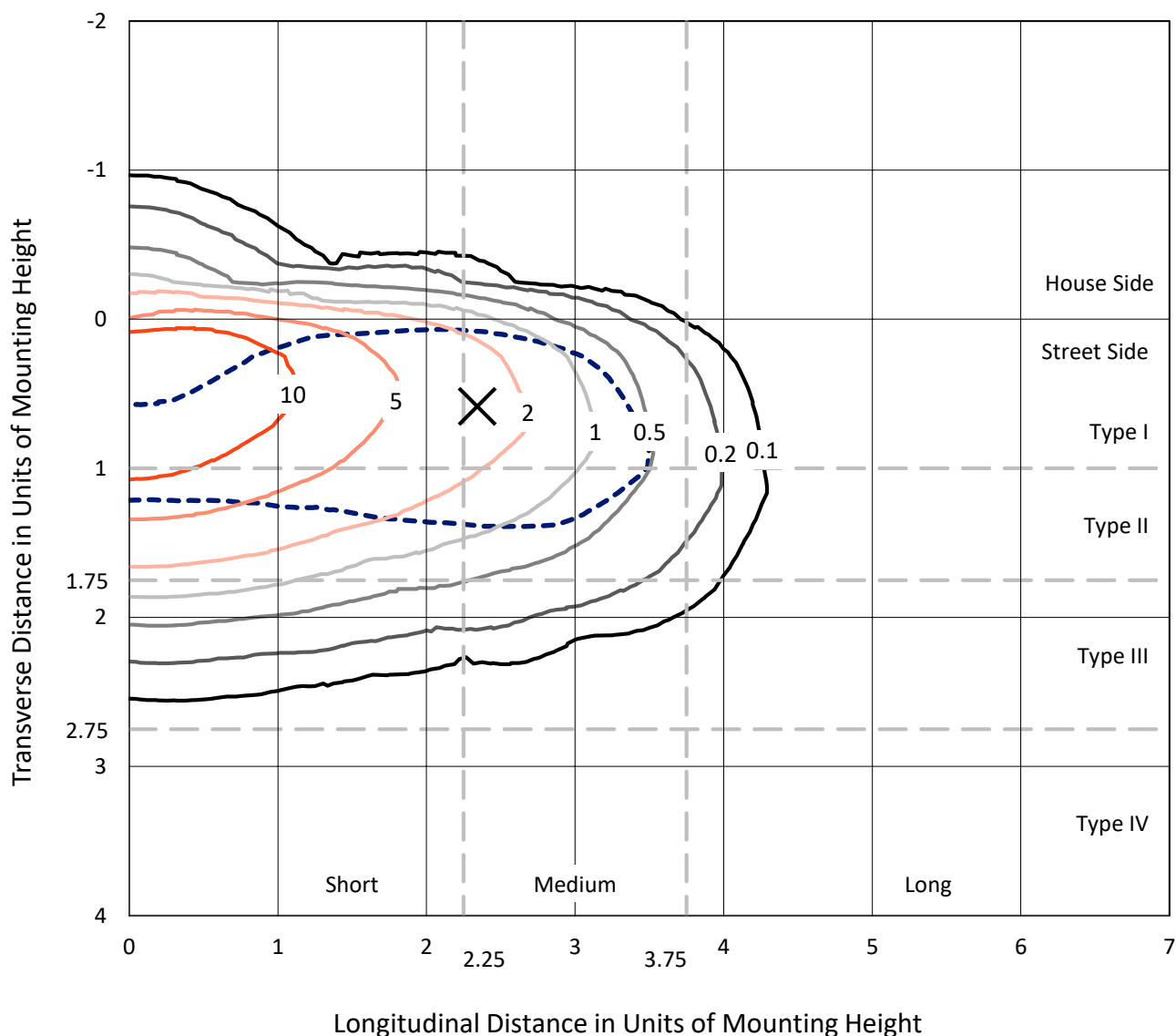
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

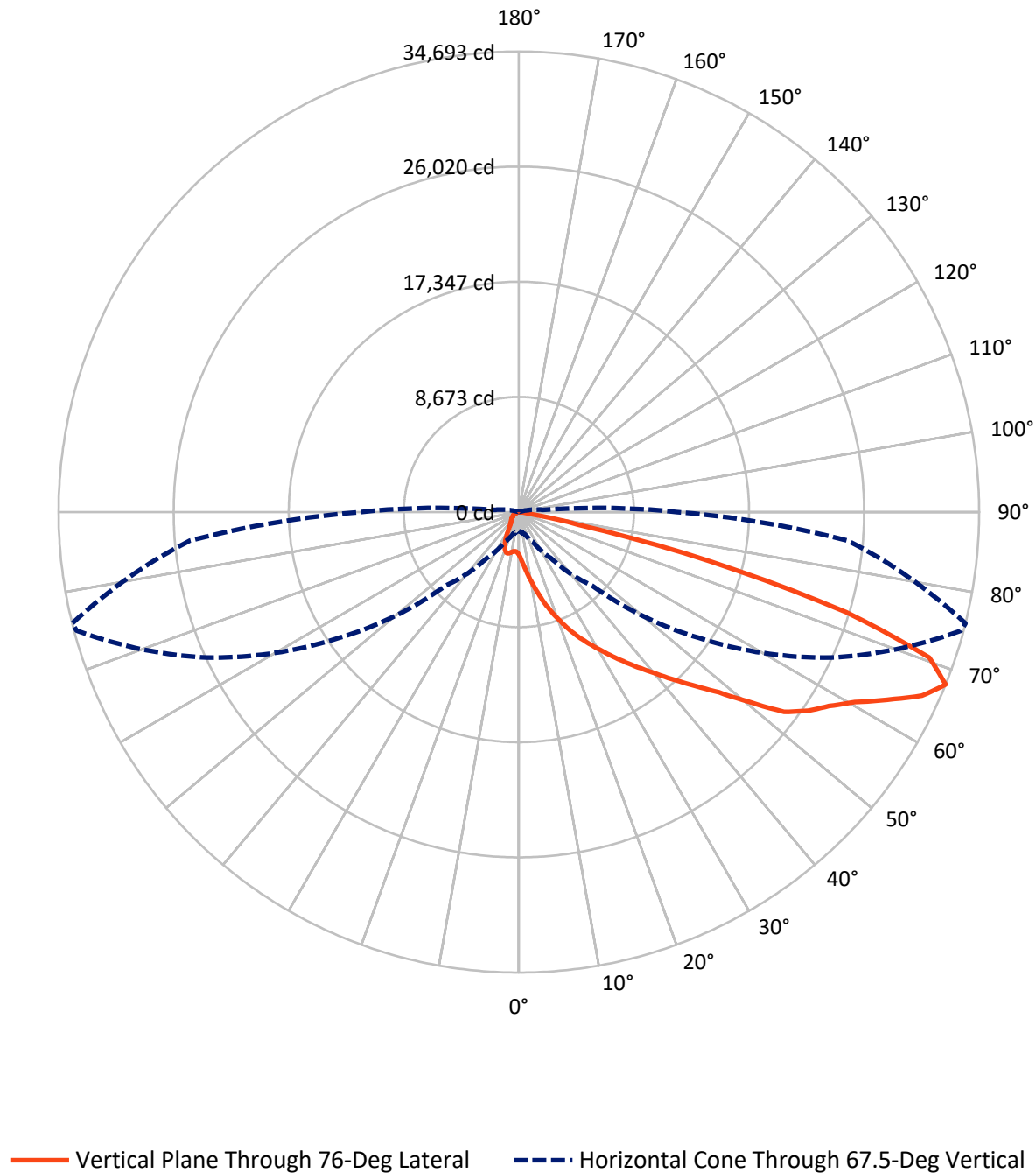
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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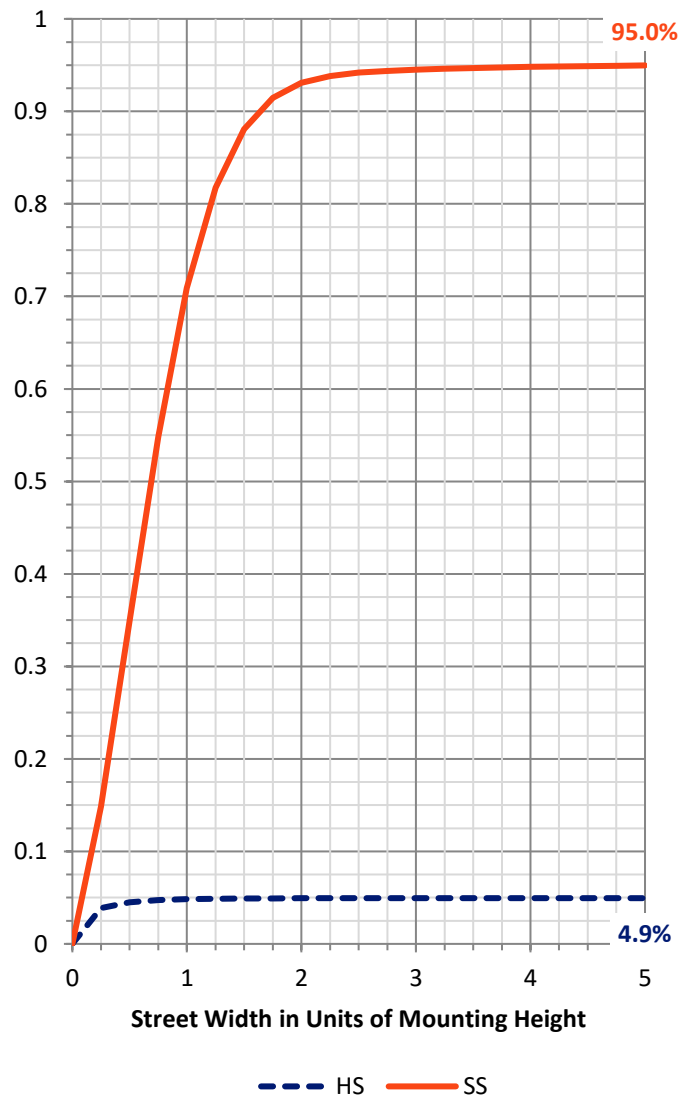
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1896.0	0.0	1896.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	36286.0	0.0	36286.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	38182.0	0.0	38182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.8	1.1
10°-20°	1596.6	4.2
20°-30°	3248.5	8.5
30°-40°	5638.4	14.8
40°-50°	7966.3	20.9
50°-60°	9034.2	23.7
60°-70°	7493.0	19.6
70°-80°	2714.2	7.1
80°-90°	88.0	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°	38182.0	100.0
0°-180°	38182.0	100.0

Coefficient of Utilization



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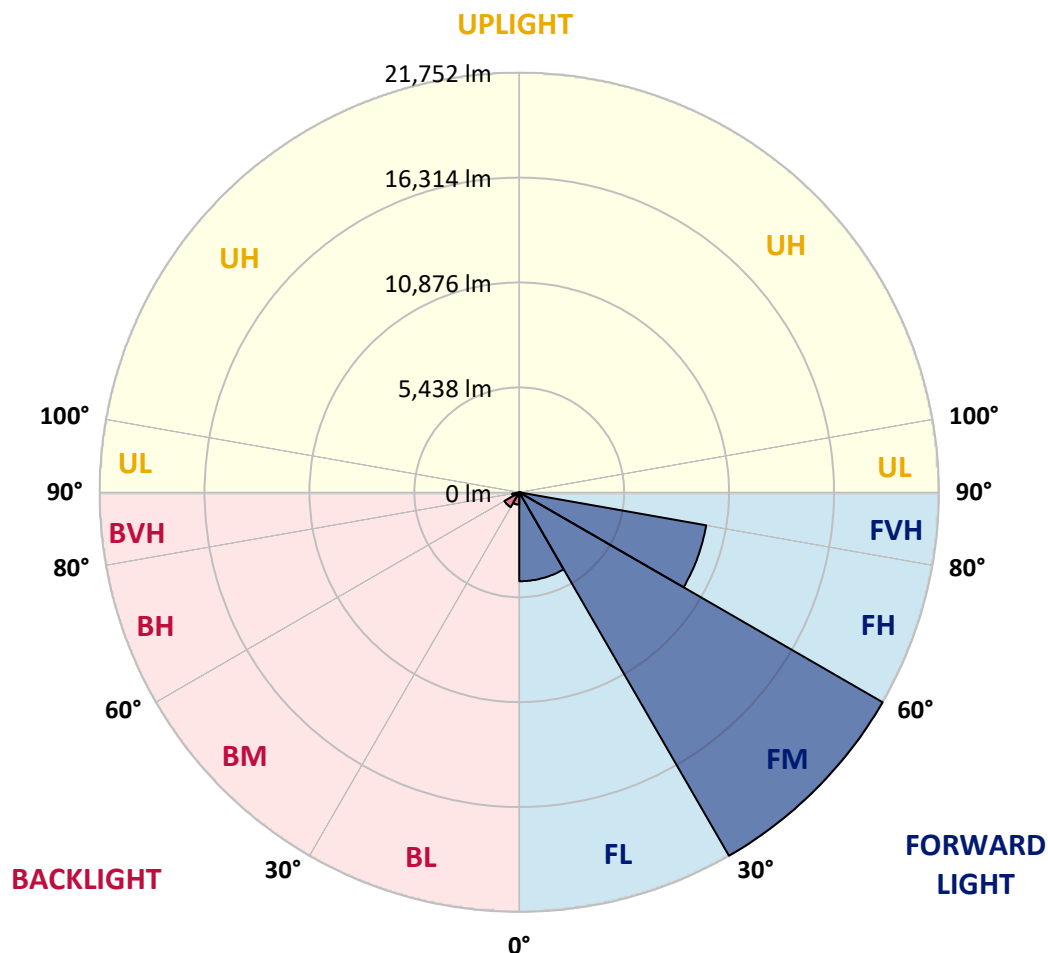
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4608.4	12.1			
FM	(30°-60°)	21751.5	57.0			
FH	(60°-80°)	9840.8	25.8			G4/12000
FVH	(80°-90°)	85.2	0.2			G1/100
BL	(0°-30°)	639.4	1.7	B2/1000		
BM	(30°-60°)	887.4	2.3	B1/1000		
BH	(60°-80°)	366.4	1.0	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9
2.5°	4835.0	4726.2	4751.3	4681.1	4553.9	4292.9	4070.4	3859.6	3613.7	3605.3	3402.9
5°	6519.7	6427.7	6416.0	6273.8	6042.9	5599.6	5167.9	4676.1	4127.3	4087.2	3657.2
7.5°	8048.8	7975.2	7948.5	7779.5	7349.5	6917.9	6355.7	5633.0	4774.8	4701.1	4000.2
10°	9223.3	9188.1	9194.8	9074.4	8706.3	8304.8	7567.0	6645.2	5509.2	5395.4	4411.7
12.5°	10113.3	10121.7	10181.9	10108.3	9902.5	9604.7	8816.7	7724.3	6322.3	6166.7	4881.8
15°	10767.5	10809.3	10919.7	11011.7	10996.7	10739.0	10016.3	8820.1	7185.6	7013.2	5405.5
17.5°	11190.7	11237.6	11398.2	11602.3	11789.7	11729.4	11174.0	9877.4	8058.9	7859.8	5965.9
20°	11562.1	11617.4	11789.7	12059.0	12408.7	12484.0	12119.3	10903.0	8930.5	8687.9	6544.8
22.5°	12366.9	12365.2	12470.6	12627.8	12960.8	13154.8	12924.0	11854.9	9792.1	9539.5	7135.4
25°	13822.4	13767.2	13730.4	13606.6	13680.2	13800.6	13671.8	12745.0	10658.7	10402.8	7734.3
27.5°	15552.3	15585.7	15287.9	14955.0	14697.4	14573.6	14362.8	13569.8	11491.9	11210.8	8319.9
30°	17377.5	17387.6	17036.2	16611.3	16044.1	15574.0	15209.3	14357.7	12348.5	12042.3	8888.7
32.5°	19023.8	18958.5	18610.5	18031.7	17315.6	16786.9	16029.1	15237.7	13255.2	12959.1	9521.1
35°	20328.7	20251.7	19828.5	19301.5	18558.7	18026.6	17114.9	16116.1	14208.8	13919.4	10155.1
37.5°	21282.3	21192.0	20757.0	20214.9	19574.2	19264.7	18374.6	17071.4	15249.4	14938.3	10822.7
40°	21613.6	21534.9	21262.2	20865.7	20350.4	20280.2	19711.4	18170.5	16382.1	16050.8	11578.9
42.5°	21416.1	21339.2	21242.2	21108.3	20894.2	20961.1	20972.8	19423.6	17640.2	17313.9	12413.7
45°	20633.2	20564.6	20665.0	20860.7	21126.7	21458.0	22123.8	20770.4	19045.5	18697.5	13379.0
47.5°	19480.5	19430.3	19708.0	20196.5	20974.5	21887.9	23176.2	22185.7	20623.1	20300.3	14583.6
50°	17840.9	17832.6	18388.0	19279.7	20475.9	22095.4	24263.6	23795.2	22814.8	22475.2	16258.3
52.5°	15287.9	15304.7	16397.1	17824.2	19600.9	21954.9	24962.9	25863.0	25364.4	25011.4	17708.8
55°	12857.1	12957.4	13732.0	15789.8	18259.2	21432.9	25203.8	26828.3	26771.4	26436.8	18515.2
57.5°	10476.4	10658.7	11404.9	13327.2	16300.1	20230.0	25071.7	27246.6	27818.7	27562.8	19579.2
60°	7896.6	7980.2	8840.2	10637.0	13785.6	18035.0	24113.0	27474.1	29250.8	29073.5	21123.4
62.5°	5024.0	5233.2	5996.1	7729.3	10734.0	14986.8	22496.9	27470.8	31042.6	31139.7	23115.9
65°	2646.7	2891.0	3295.8	4789.8	7376.3	11582.2	20066.0	27213.1	33241.0	33376.5	24673.5
67.5°	1427.1	1497.3	1711.5	2486.1	4277.9	7846.4	16494.2	25941.6	34514.1	34693.1	24891.0
70°	1044.0	1082.4	1162.7	1375.2	2153.2	4557.3	12035.6	23059.0	32872.9	32806.0	22115.5
72.5°	801.4	861.6	921.8	1007.1	1238.0	2432.6	7493.4	18056.8	26229.4	25787.7	16531.0
75°	632.4	642.4	727.8	804.7	928.5	1385.2	3327.6	10516.5	16009.0	14963.4	8572.5
77.5°	505.2	511.9	562.1	629.1	746.2	910.1	1030.6	4137.3	5111.0	4560.6	1860.4
80°	299.5	316.2	418.3	485.2	619.0	573.8	376.4	898.4	798.0	722.7	312.9
82.5°	167.3	180.7	235.9	383.1	431.6	274.4	187.4	242.6	187.4	182.4	88.7
85°	0.0	8.4	152.2	237.6	175.7	60.2	78.6	80.3	55.2	51.9	35.1
87.5°	0.0	0.0	46.8	45.2	6.7	10.0	18.4	26.8	21.7	21.7	18.4
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°	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9	3238.9
2.5°	3302.5	3212.2	3041.5	2874.2	2733.7	2618.3	2514.5	2472.7	2439.2	2434.2	2407.5
5°	3449.7	3267.4	2941.1	2673.5	2494.5	2367.3	2258.6	2191.6	2139.8	2119.7	2101.3
7.5°	3672.2	3396.2	2927.8	2619.9	2405.8	2191.6	1990.9	1773.4	1637.9	1586.0	1555.9
10°	3943.3	3566.8	2978.0	2604.9	2230.1	1778.4	1445.5	1169.4	1057.3	1020.5	1010.5
12.5°	4259.5	3779.3	3064.9	2511.2	1855.4	1263.1	997.1	903.4	878.3	866.6	866.6
15°	4622.5	4011.9	3126.8	2240.2	1371.9	955.3	863.3	819.8	793.0	777.9	779.6
17.5°	4993.9	4239.4	3096.7	1847.0	1012.2	849.9	781.3	734.4	697.6	682.6	679.2
20°	5368.7	4450.2	2929.4	1375.2	856.6	771.3	694.3	642.4	605.6	590.6	587.2
22.5°	5756.8	4629.2	2635.0	1008.8	769.6	684.3	609.0	557.1	522.0	508.6	501.9
25°	6134.9	4774.8	2223.4	816.4	687.6	602.3	530.3	481.8	450.0	436.7	435.0
27.5°	6487.9	4866.8	1746.6	721.1	615.7	528.7	463.4	419.9	393.2	383.1	381.4
30°	6805.8	4875.1	1291.6	650.8	552.1	465.1	404.9	366.4	343.0	332.9	329.6
32.5°	7127.0	4804.9	940.2	587.2	493.5	409.9	351.3	321.2	304.5	296.1	296.1
35°	7429.8	4642.6	732.8	532.0	436.7	356.4	309.5	287.8	277.7	269.4	269.4
37.5°	7725.9	4410.0	622.4	483.5	383.1	311.2	272.7	259.3	251.0	242.6	242.6
40°	8027.1	4117.3	565.5	438.3	339.6	276.0	242.6	230.9	222.5	215.8	214.1
42.5°	8396.8	3779.3	528.7	396.5	301.1	244.3	214.1	200.8	194.1	187.4	184.0
45°	8825.1	3488.2	498.6	354.7	269.4	217.5	185.7	172.3	162.3	153.9	152.2
47.5°	9442.4	3277.4	458.4	309.5	239.2	189.0	160.6	145.6	130.5	122.1	120.5
50°	10230.4	3103.4	406.5	269.4	209.1	160.6	133.8	115.4	102.1	93.7	93.7
52.5°	10621.9	2875.9	359.7	234.2	175.7	135.5	108.7	87.0	80.3	71.9	71.9
55°	10779.2	2701.9	312.9	199.1	145.6	112.1	85.3	66.9	61.9	56.9	55.2
57.5°	11220.9	2651.7	272.7	169.0	120.5	88.7	65.2	50.2	46.8	40.2	40.2
60°	11931.9	2676.8	235.9	143.9	97.0	68.6	48.5	38.5	35.1	28.4	28.4
62.5°	12699.8	2645.0	199.1	123.8	75.3	50.2	33.5	28.4	28.4	16.7	15.1
65°	12847.0	2355.6	170.6	102.1	58.6	36.8	21.7	18.4	25.1	3.3	0.0
67.5°	11923.5	1826.9	147.2	78.6	43.5	28.4	16.7	8.4	21.7	0.0	0.0
70°	9534.5	1161.1	118.8	56.9	33.5	23.4	13.4	3.3	16.7	0.0	0.0
72.5°	6742.2	674.2	93.7	40.2	28.4	18.4	10.0	0.0	10.0	0.0	0.0
75°	3409.6	359.7	58.6	30.1	21.7	13.4	6.7	0.0	1.7	0.0	0.0
77.5°	737.8	167.3	36.8	21.7	15.1	8.4	3.3	0.0	0.0	0.0	0.0
80°	160.6	73.6	23.4	13.4	8.4	5.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.6	38.5	11.7	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.8	20.1	6.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.7	6.7	1.7	1.7	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)