

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: P322642

Luminaire Tested: **GAN-SA8B-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32524 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

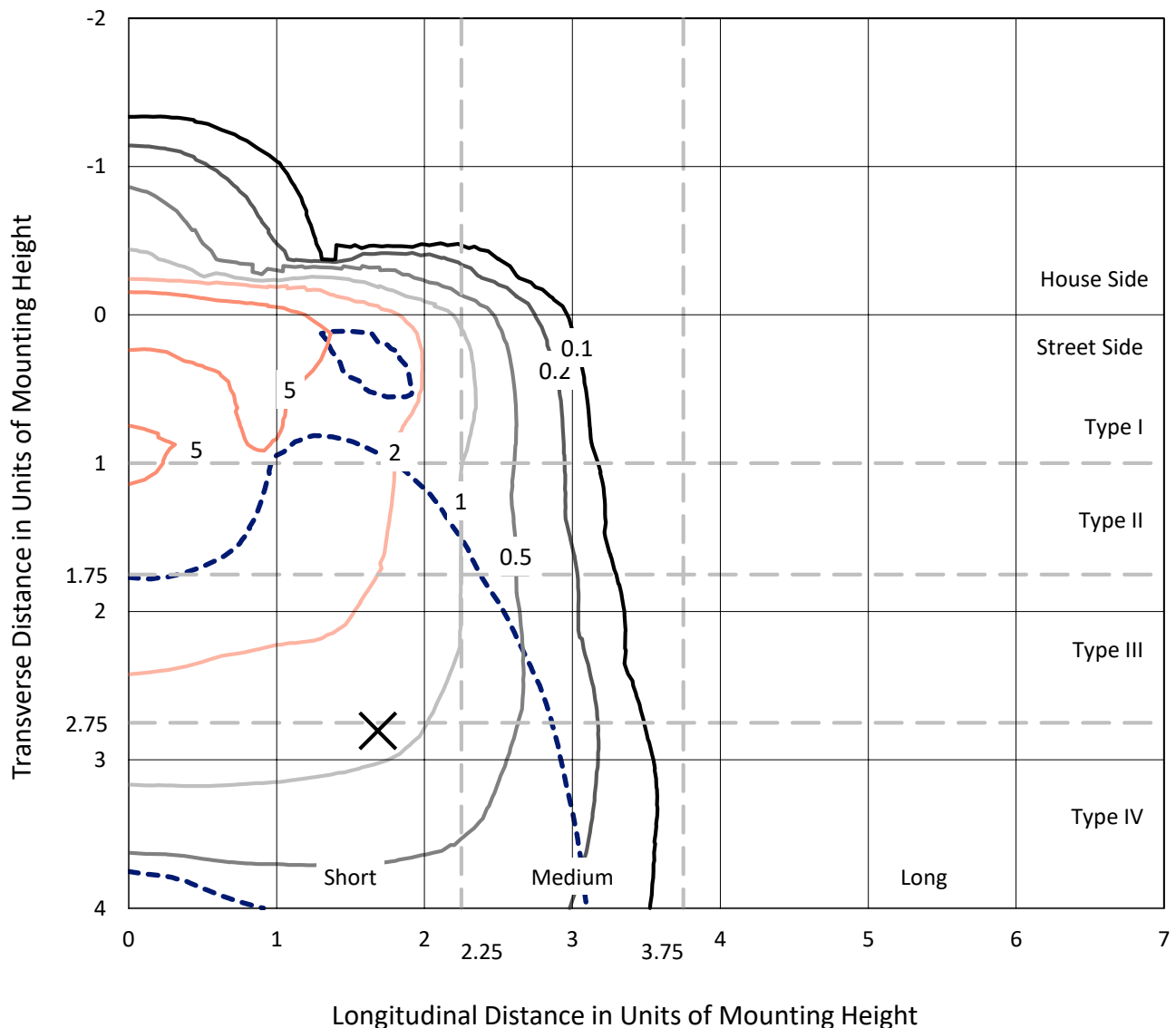
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

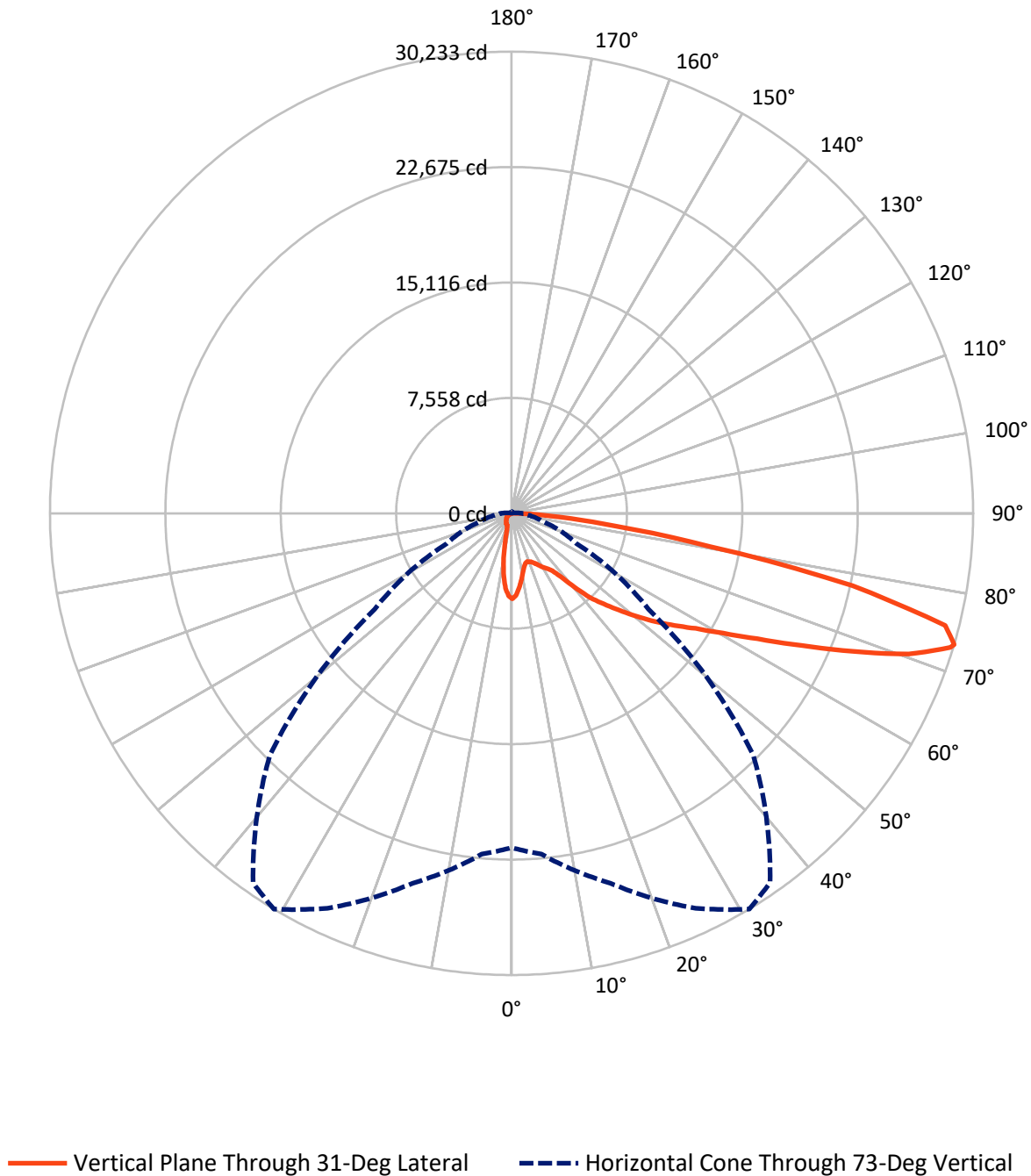
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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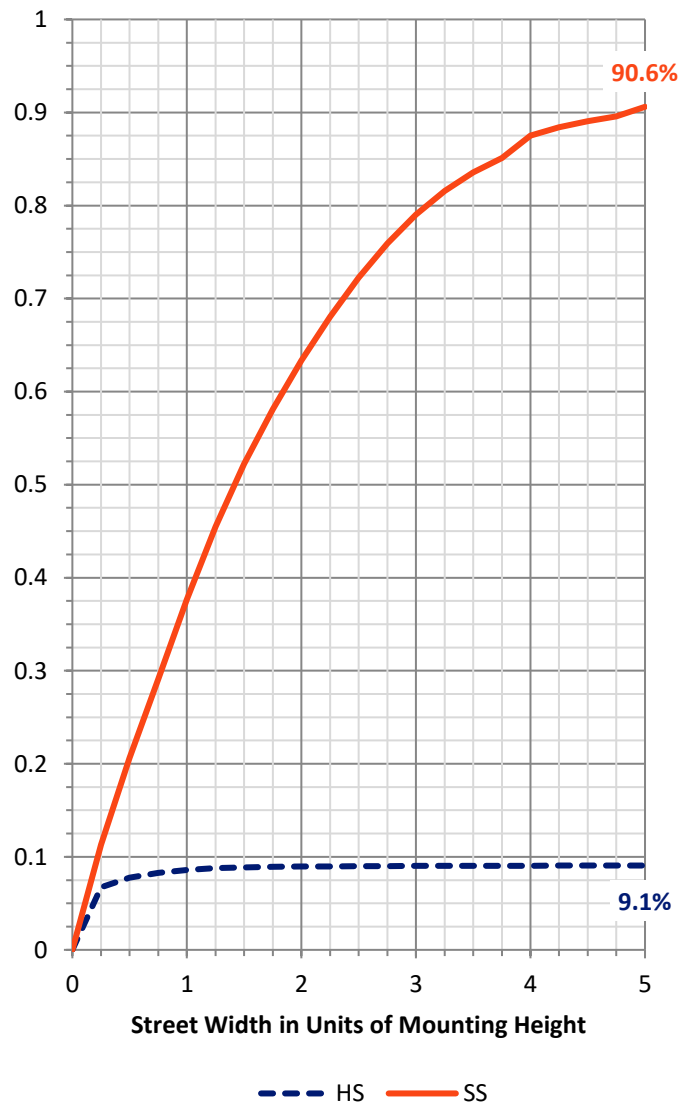
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2964.7	0.0	2964.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	29559.3	0.0	29559.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	32524.0	0.0	32524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.0	1.4
10°-20°	1007.4	3.1
20°-30°	1509.4	4.6
30°-40°	2401.5	7.4
40°-50°	4288.4	13.2
50°-60°	6654.3	20.5
60°-70°	8846.0	27.2
70°-80°	6654.0	20.5
80°-90°	699.2	2.1
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°	32524.0	100.0
0°-180°	32524.0	100.0

Coefficient of Utilization



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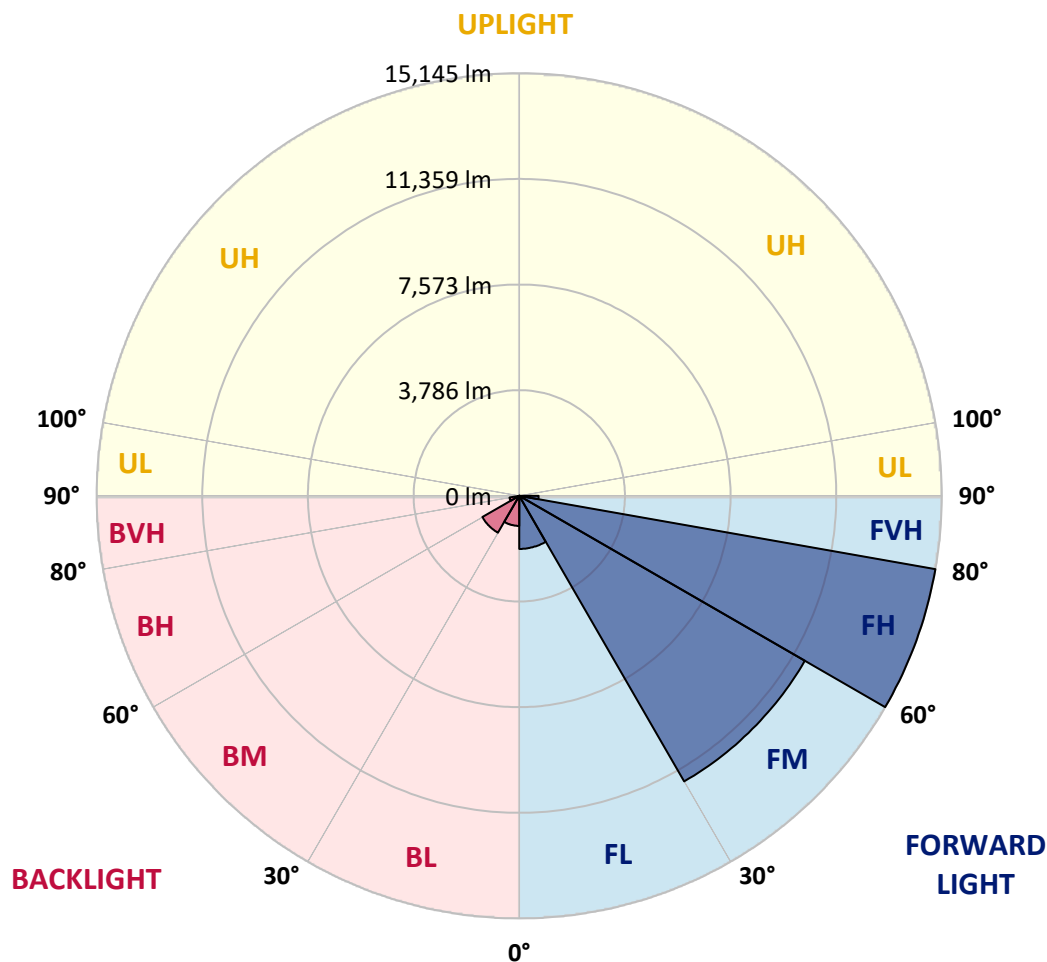
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1902.7	5.9			
FM	(30°-60°)	11818.1	36.3			
FH	(60°-80°)	15145.2	46.6			G5
FVH	(80°-90°)	693.3	2.1			G4/750
BL	(0°-30°)	1078.1	3.3	B3/2500		
BM	(30°-60°)	1526.0	4.7	B2/2500		
BH	(60°-80°)	354.7	1.1	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8
2.5°	5303.0	5325.3	5349.1	5353.9	5393.7	5395.3	5452.6	5495.6	5538.5	5579.9	5594.2
5°	4758.7	4795.3	4838.3	4881.2	4965.6	4999.0	5139.1	5282.3	5419.2	5549.7	5613.3
7.5°	4177.8	4219.1	4279.6	4386.3	4480.2	4545.4	4766.6	5021.3	5275.9	5516.2	5654.7
10°	3647.8	3686.0	3749.6	3862.6	4007.5	4096.6	4394.2	4747.5	5121.5	5486.0	5716.8
12.5°	3310.4	3331.1	3366.1	3487.0	3617.5	3717.8	4068.0	4505.6	4994.2	5484.4	5817.0
15°	3248.3	3254.7	3226.0	3280.1	3382.0	3479.1	3834.0	4309.9	4897.1	5509.9	5947.5
17.5°	3347.0	3343.8	3248.3	3241.9	3323.1	3402.7	3719.4	4174.6	4828.7	5568.8	6116.3
20°	3496.6	3485.5	3319.9	3289.7	3375.6	3450.4	3711.4	4123.7	4803.2	5667.4	6321.6
22.5°	3695.5	3676.4	3417.0	3385.2	3477.5	3555.5	3810.1	4173.0	4825.5	5799.5	6560.3
25°	3942.2	3913.6	3584.1	3549.1	3643.0	3721.0	3986.8	4314.6	4892.4	5960.3	6862.7
27.5°	4220.7	4179.4	3851.5	3760.8	3867.4	3948.6	4222.3	4531.1	4997.4	6130.6	7233.5
30°	4483.3	4429.2	4133.2	3983.6	4114.1	4204.8	4477.0	4788.9	5166.1	6393.2	7741.2
32.5°	4747.5	4687.1	4384.7	4206.4	4324.2	4422.9	4739.6	5143.8	5482.8	6794.2	8416.0
35°	5355.5	5291.8	4921.0	4626.6	4625.0	4680.7	5107.2	5629.2	5901.4	7352.9	9221.3
37.5°	6378.9	6342.2	5988.9	5430.3	5280.7	5218.6	5608.6	6208.6	6503.0	8121.6	10130.1
40°	7499.3	7467.5	7071.2	6565.1	6337.5	6184.7	6327.9	7015.5	7352.9	9060.6	11058.0
42.5°	8764.6	8613.4	7906.7	7755.5	7551.8	7435.6	7306.7	8010.2	8396.9	10082.3	11977.9
45°	9913.6	9659.0	8742.3	8513.1	8466.9	8495.6	8567.2	9347.1	9571.5	11296.7	12894.6
47.5°	10598.0	10397.5	9694.0	9474.4	9461.6	9651.0	10192.2	10857.4	10741.2	12355.1	13701.5
50°	11248.9	11067.5	10483.4	10537.5	10596.4	10854.2	12036.7	12410.8	11809.2	13314.7	14441.5
52.5°	11775.7	11498.8	11193.2	11497.2	11786.9	12202.3	13940.2	13804.9	12566.7	14078.7	15075.0
55°	12079.7	11954.0	12102.0	12407.6	12951.9	13626.7	15737.1	14965.2	13120.6	14775.8	15496.7
57.5°	13193.8	12947.1	13241.5	13505.7	14215.5	15159.3	17276.1	15829.4	13520.1	15207.1	15593.8
60°	14541.8	14342.9	14516.3	14955.6	15913.7	17023.0	18714.8	16534.4	13728.5	15484.0	15342.4
62.5°	16687.2	16424.6	16316.4	16808.2	18078.2	19289.3	19806.6	17023.0	13682.4	15361.5	14479.7
65°	19561.5	19289.3	18805.5	19251.2	20866.6	21721.2	21027.3	17126.5	13364.1	14369.9	12299.3
67.5°	22505.8	22308.5	21894.7	22645.9	24103.7	24379.1	22318.0	16875.0	12339.1	11651.6	8689.8
70°	24450.7	24366.3	24635.3	26296.9	27597.1	27517.6	23502.1	15523.8	9617.6	7165.1	4298.7
72.5°	23048.5	23452.8	25439.0	28451.8	30040.1	29390.8	22894.2	11920.6	5497.1	2756.5	1243.0
73°	21886.7	22404.0	25077.7	28533.0	30232.7	29521.3	22383.3	10941.8	4685.5	2175.6	942.2
75°	15226.2	15861.2	20761.5	26573.8	29331.9	28127.1	18657.5	6697.2	2170.8	964.5	380.4
77.5°	7392.7	7862.2	11432.0	19200.2	22811.4	21975.9	11615.0	2495.5	980.4	603.2	175.1
80°	2759.7	3068.5	4962.4	9772.0	13182.6	13528.0	5108.8	943.8	652.5	485.4	89.1
82.5°	722.6	805.3	1830.3	4357.6	6756.0	7071.2	1610.6	475.9	477.5	399.5	54.1
85°	230.8	264.2	571.4	1956.0	3183.1	2794.7	420.2	230.8	347.0	297.6	30.2
87.5°	28.6	36.6	181.4	460.0	701.9	389.9	65.3	68.4	148.0	165.5	17.5
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°	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8	5595.8
2.5°	5608.6	5600.6	5602.2	5560.8	5533.8	5479.6	5423.9	5398.5	5371.4	5360.3	5371.4
5°	5637.2	5622.9	5581.5	5454.2	5318.9	5143.8	4979.9	4855.8	4699.8	4656.8	4701.4
7.5°	5681.8	5653.1	5532.2	5272.7	4971.9	4637.7	4262.1	3988.4	3764.0	3619.1	3671.7
10°	5747.0	5692.9	5449.4	5008.5	4470.6	3878.6	3345.4	2930.0	2635.6	2514.6	2509.8
12.5°	5856.8	5755.0	5347.5	4664.8	3857.9	3068.5	2369.8	1919.4	1680.7	1526.3	1523.1
15°	5977.8	5828.2	5218.6	4252.6	3144.9	2197.9	1526.3	1184.1	1029.7	980.4	974.0
17.5°	6125.8	5912.5	5051.5	3744.9	2398.4	1456.3	996.3	897.6	891.3	886.5	886.5
20°	6312.0	6012.8	4836.7	3164.0	1701.3	972.4	846.7	853.1	856.2	849.9	851.5
22.5°	6528.5	6114.7	4580.4	2540.1	1150.7	813.3	810.1	818.0	821.2	818.0	819.6
25°	6779.9	6232.4	4268.5	1886.0	830.8	771.9	779.8	791.0	798.9	798.9	798.9
27.5°	7091.9	6375.7	3892.9	1316.2	717.8	728.9	751.2	771.9	783.0	786.2	786.2
30°	7497.7	6553.9	3442.5	902.4	652.5	671.6	713.0	752.8	773.5	776.7	778.3
32.5°	8010.2	6754.5	2920.5	666.9	596.8	611.1	655.7	722.6	762.3	768.7	768.7
35°	8597.4	6986.8	2358.6	580.9	557.0	561.8	596.8	673.2	743.2	760.8	762.3
37.5°	9240.4	7216.0	1793.7	542.7	523.6	523.6	549.1	614.3	697.1	751.2	757.6
40°	9840.4	7354.5	1257.3	512.5	493.4	493.4	515.7	563.4	641.4	722.6	740.1
42.5°	10394.3	7402.2	875.3	483.8	464.7	469.5	488.6	526.8	585.7	666.9	682.8
45°	10964.1	7394.3	638.2	450.4	436.1	450.4	464.7	493.4	536.3	582.5	585.7
47.5°	11393.8	7327.4	506.1	418.6	409.0	428.1	440.9	460.0	483.8	480.6	480.6
50°	11796.4	7165.1	407.4	375.6	382.0	404.2	410.6	417.0	418.6	388.3	385.2
52.5°	12102.0	6912.0	326.3	329.4	354.9	377.2	370.8	361.3	345.4	308.8	302.4
55°	12203.9	6425.0	256.2	272.2	315.1	343.8	319.9	299.2	269.0	238.7	232.4
57.5°	12019.2	5796.4	208.5	211.7	265.8	289.7	262.6	238.7	205.3	179.8	175.1
60°	11627.7	5097.7	171.9	159.2	205.3	226.0	208.5	184.6	154.4	135.3	133.7
62.5°	10851.1	4352.8	141.6	124.1	156.0	173.5	162.3	144.8	119.4	106.6	105.0
65°	9218.1	3482.3	114.6	100.3	121.0	135.3	125.7	113.0	93.9	84.4	82.8
67.5°	6434.6	2353.9	93.9	82.8	95.5	106.6	98.7	92.3	74.8	73.2	74.8
70°	3103.5	1134.8	78.0	66.8	74.8	82.8	79.6	74.8	71.6	82.8	95.5
72.5°	889.7	380.4	62.1	55.7	60.5	65.3	68.4	66.8	78.0	100.3	116.2
73°	684.4	307.2	58.9	52.5	57.3	63.7	66.8	65.3	79.6	101.9	116.2
75°	292.8	148.0	44.6	43.0	47.7	55.7	58.9	58.9	79.6	103.4	111.4
77.5°	132.1	79.6	28.6	33.4	41.4	44.6	49.3	49.3	63.7	79.6	79.6
80°	74.8	43.0	22.3	25.5	30.2	30.2	30.2	27.1	28.6	31.8	35.0
82.5°	47.7	28.6	17.5	20.7	19.1	15.9	12.7	12.7	11.1	12.7	15.9
85°	27.1	15.9	15.9	12.7	8.0	6.4	8.0	6.4	1.6	0.0	1.6
87.5°	15.9	9.5	4.8	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)