

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: P192776

Luminaire Tested: **GAN-AF-08-LED-U-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-SL2-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25178.8 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 257
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: 28.75 FT



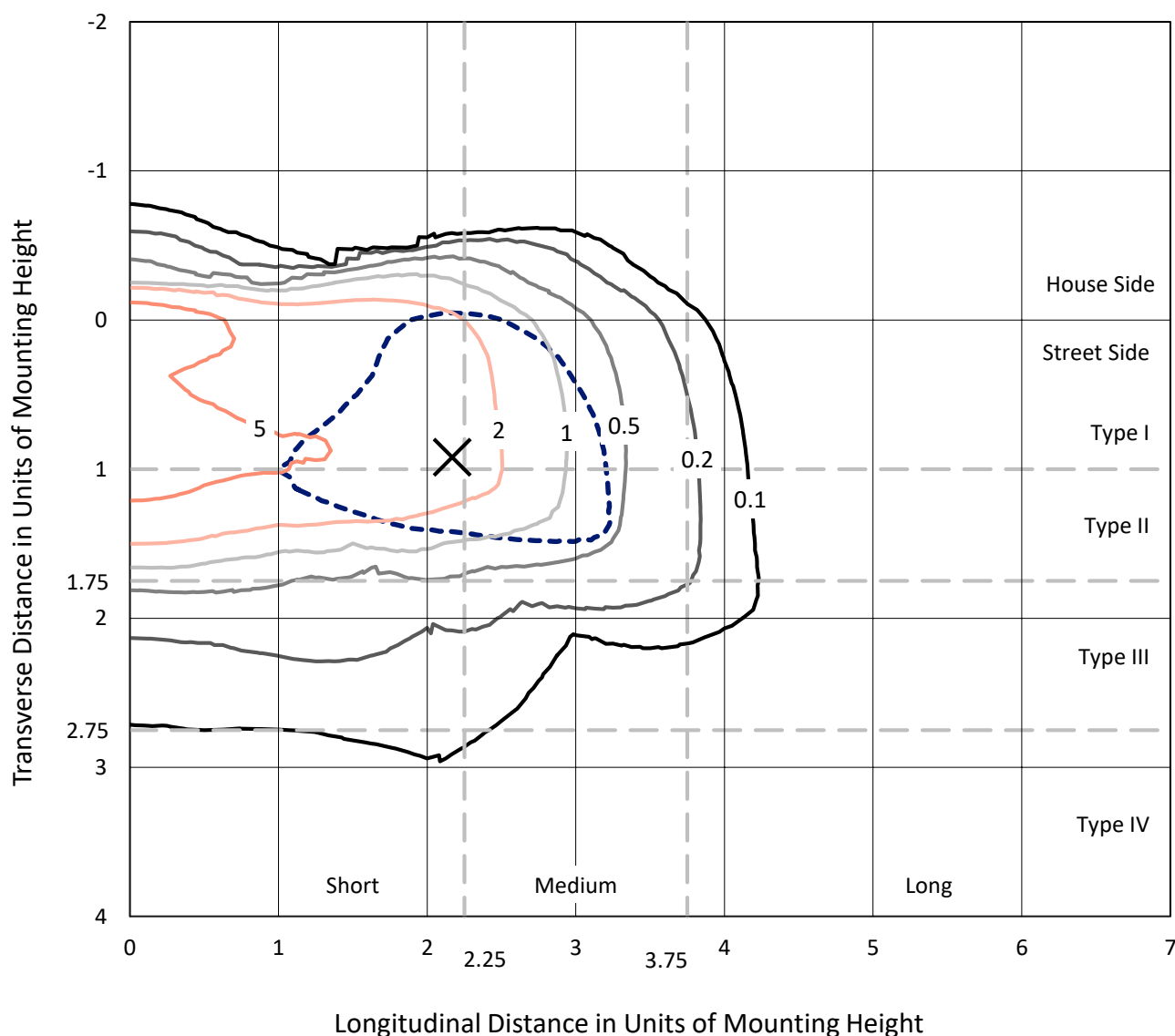
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

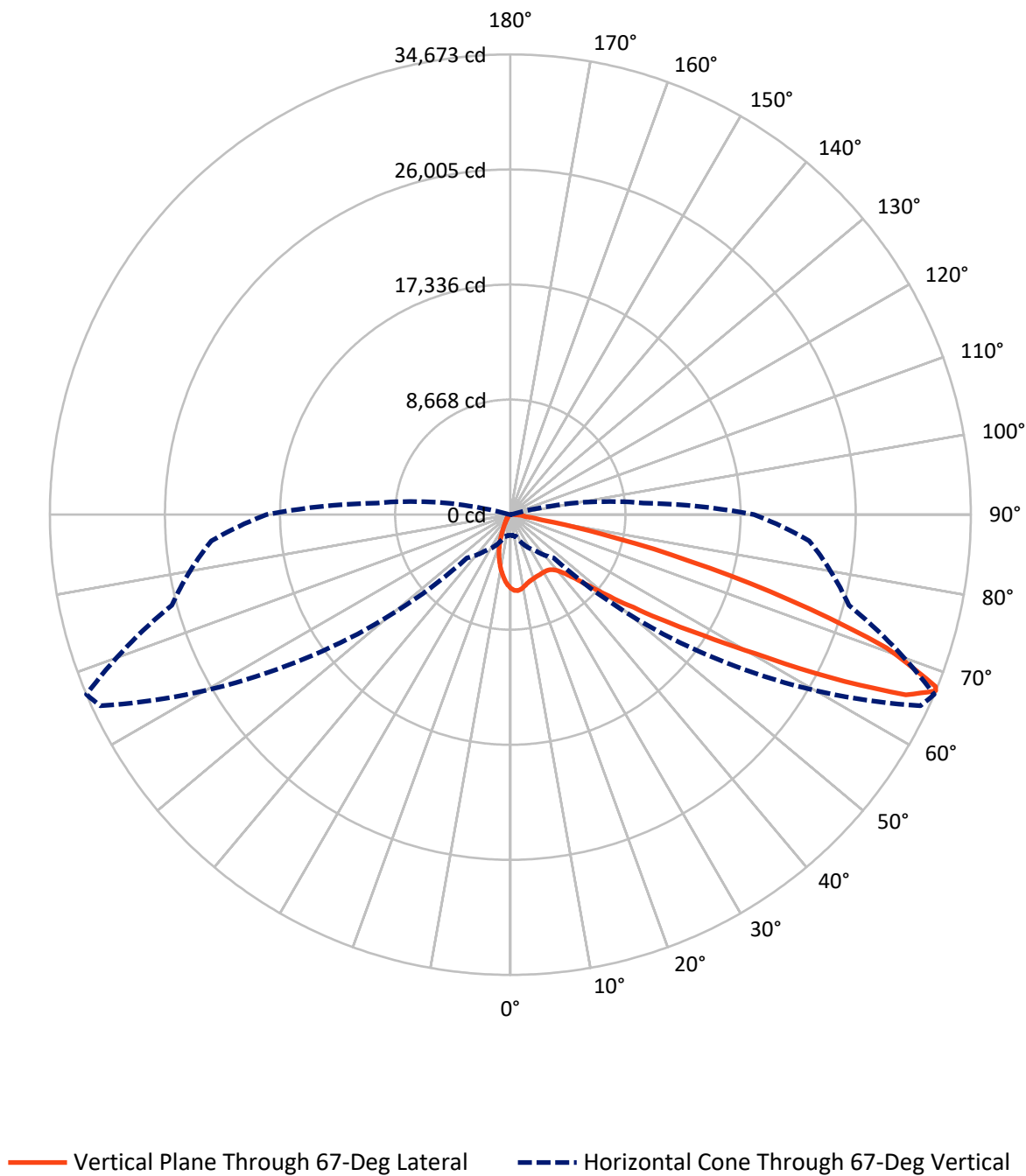


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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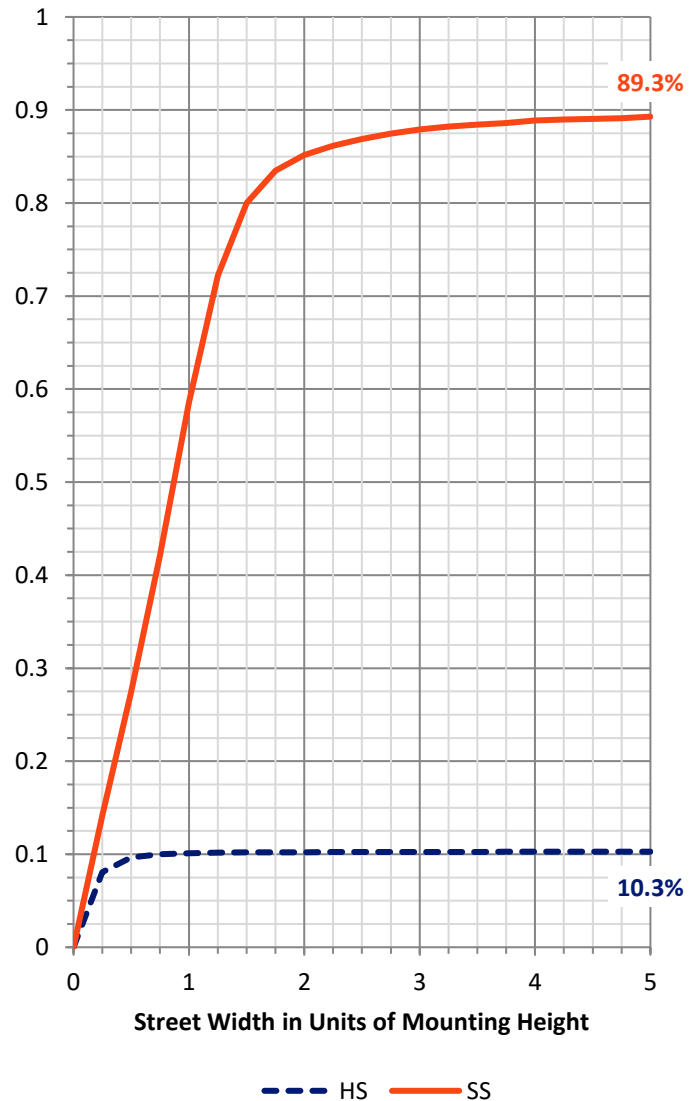
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2614.3	0.0	2614.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	22564.5	0.0	22564.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	25178.8	0.0	25178.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.8	1.8
10°-20°	961.7	3.8
20°-30°	1398.2	5.6
30°-40°	2181.2	8.7
40°-50°	3863.9	15.3
50°-60°	6114.2	24.3
60°-70°	7003.0	27.8
70°-80°	2904.8	11.5
80°-90°	300.0	1.2
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°	25178.8	100.0
0°-180°	25178.8	100.0

Coefficient of Utilization



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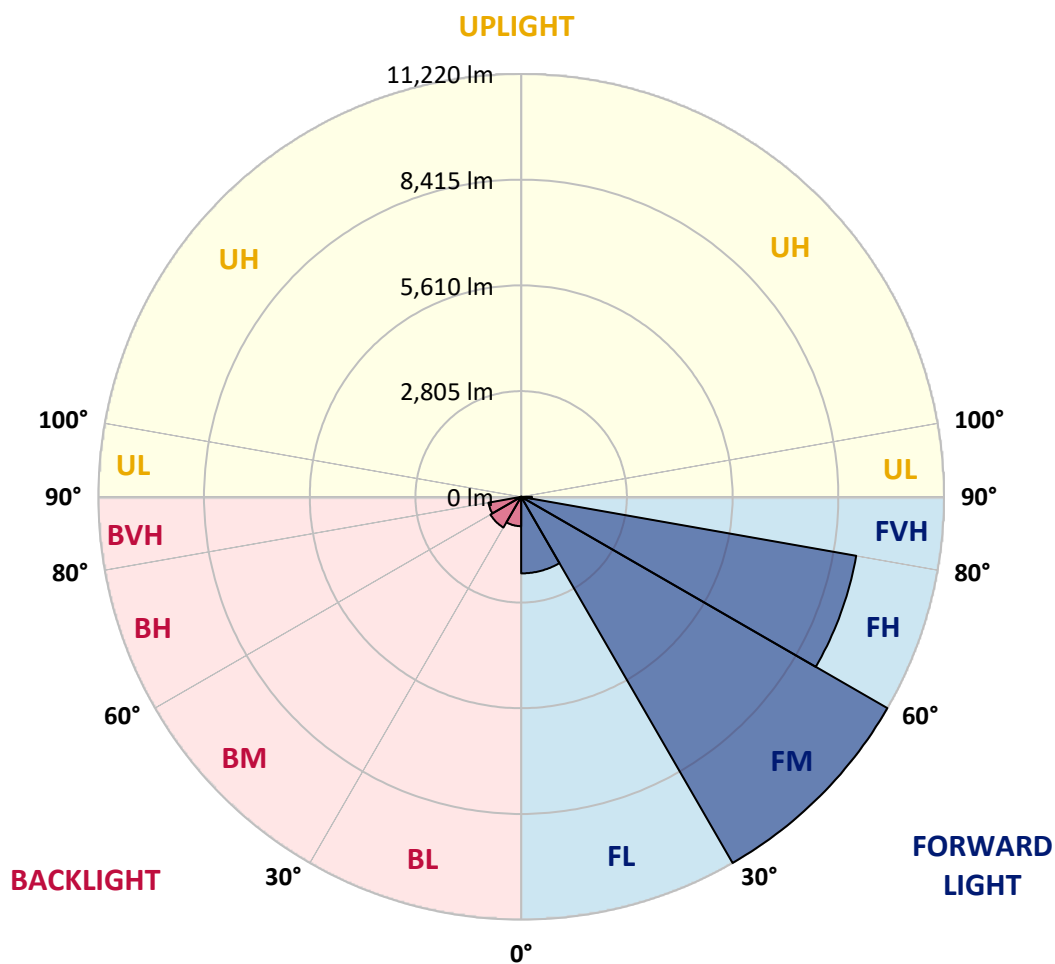
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2031.5	8.1			
FM	(30°-60°)	11219.7	44.6			
FH	(60°-80°)	9026.7	35.9			G4/12000
FVH	(80°-90°)	286.5	1.1			G3/500
BL	(0°-30°)	780.1	3.1	B2/1000		
BM	(30°-60°)	939.6	3.7	B1/1000		
BH	(60°-80°)	881.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	13.5	0.1			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9
2.5°	5740.8	5752.6	5751.1	5759.9	5780.5	5782.0	5761.3	5721.8	5712.9	5661.5	5571.9
5°	5294.3	5328.1	5348.7	5432.5	5526.5	5639.5	5724.6	5755.6	5751.1	5714.4	5579.4
7.5°	4784.8	4818.6	4842.1	4940.4	5065.3	5259.0	5480.9	5663.0	5679.2	5718.8	5573.5
10°	4445.5	4451.4	4483.7	4577.8	4708.4	4906.7	5171.0	5489.7	5538.2	5683.5	5558.8
12.5°	4166.5	4170.9	4213.5	4314.7	4454.3	4654.0	4931.6	5300.2	5375.1	5639.5	5555.9
15°	3968.2	3984.3	4022.6	4128.3	4276.6	4474.9	4759.8	5160.8	5250.4	5623.3	5582.3
17.5°	3902.0	3919.7	3931.4	4007.8	4143.0	4336.8	4629.1	5069.6	5171.0	5632.2	5633.6
20°	3971.1	3984.3	3957.9	3977.0	4060.7	4234.1	4519.0	4991.8	5112.2	5642.4	5699.7
22.5°	4228.2	4234.1	4162.1	4078.3	4063.7	4159.2	4432.3	4930.1	5059.4	5670.3	5777.5
25°	4668.7	4658.5	4541.0	4360.3	4190.0	4146.0	4380.9	4892.0	5032.9	5699.7	5858.4
27.5°	5200.4	5215.1	5053.6	4790.7	4466.1	4234.1	4373.5	4875.8	5021.2	5720.3	5928.9
30°	5846.6	5867.1	5682.1	5351.6	4886.1	4451.4	4441.1	4872.9	5013.9	5707.0	5934.8
32.5°	6506.0	6531.0	6385.5	6044.9	5447.1	4815.6	4593.8	4905.2	5028.5	5661.5	5900.9
35°	7196.3	7231.5	7134.5	6842.3	6207.9	5341.3	4862.6	5003.6	5097.6	5657.1	5867.1
37.5°	8149.4	8181.7	7999.5	7689.6	7128.7	6046.3	5294.3	5188.6	5260.7	5727.6	5876.0
40°	9572.4	9568.1	9098.1	8623.8	8140.6	6942.3	5900.9	5523.5	5560.2	5940.5	5984.6
42.5°	11123.3	11116.0	10421.3	9700.2	9264.1	8045.1	6698.3	6102.1	6077.1	6332.6	6266.6
45°	12318.8	12317.4	11750.4	10938.3	10616.6	9311.1	7729.3	6907.0	6868.7	6970.0	6786.5
47.5°	12828.3	12837.2	12552.2	11981.1	12116.1	11023.5	9029.0	8073.0	8015.7	7974.7	7695.5
50°	12431.8	12449.5	12473.0	12361.4	13216.1	13324.8	10772.3	9716.4	9688.4	9504.9	9068.7
52.5°	11136.6	11226.2	11502.3	11856.2	13598.0	15533.6	13505.4	11757.8	11608.0	11412.6	10932.4
55°	8954.3	9052.5	9576.9	10436.0	13029.6	16984.6	17335.6	14389.6	14139.9	13556.9	12863.6
57.5°	5925.9	6078.6	6839.4	7932.0	11379.0	17218.0	21157.0	18042.0	17172.6	15576.2	14794.9
60°	3264.7	3411.6	4237.0	5226.9	8218.4	16063.8	23727.1	22797.4	21261.2	17833.4	17140.3
62.5°	2010.6	2089.8	2699.4	3620.2	4928.6	12678.6	24258.8	28773.2	26994.6	20739.8	19973.2
65°	1600.7	1634.6	1932.7	2959.3	3533.6	7541.4	22541.9	33328.9	32735.6	24258.8	22509.6
67°	1553.7	1567.0	1708.0	2540.8	3330.9	4623.2	18885.0	34070.6	34672.7	26388.2	22588.8
67.5°	1564.0	1578.8	1712.4	2424.7	3325.0	4248.8	17624.9	33778.3	34539.0	26557.1	22237.9
70°	1508.4	1553.7	1960.6	2423.3	3162.0	3530.6	10555.0	29266.6	30058.2	24675.7	18868.8
72.5°	534.6	537.5	847.5	1960.6	3438.1	3568.7	5300.2	21455.1	22041.1	18876.1	13603.9
75°	317.2	270.2	282.0	558.1	3285.3	3465.9	3057.6	13709.6	13928.4	10816.3	6889.4
77.5°	218.8	190.8	196.7	246.7	1251.2	3417.5	2429.1	7149.3	6915.8	3793.5	1467.2
80°	124.9	110.2	117.5	215.9	455.3	3188.4	2291.0	2899.0	2471.7	643.2	405.4
82.5°	66.1	55.8	67.5	177.6	317.2	1987.1	2295.4	1401.0	1110.3	217.3	276.1
85°	23.5	19.1	32.3	122.0	211.5	609.4	2128.1	1177.9	925.2	105.8	210.0
87.5°	4.4	4.4	13.2	49.9	85.2	186.5	1258.5	699.0	468.5	63.2	143.9
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°	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9	5552.9
2.5°	5535.2	5472.0	5386.9	5282.5	5159.2	5050.6	4969.7	4886.1	4868.5	4839.1	4834.7
5°	5498.5	5389.9	5178.4	4936.0	4677.6	4444.0	4254.5	4085.7	4010.8	3946.2	3938.8
7.5°	5444.2	5281.1	4921.4	4530.7	4126.8	3759.7	3448.3	3228.1	3025.4	2928.4	2913.7
10°	5381.0	5147.5	4632.0	4090.1	3532.1	3013.6	2550.9	2163.3	1928.3	1788.8	1771.2
12.5°	5322.2	5016.8	4336.8	3633.4	2891.8	2198.6	1603.7	1233.6	986.9	887.0	875.2
15°	5294.3	4911.1	4060.7	3166.4	2222.0	1399.6	876.8	678.5	597.7	574.2	572.7
17.5°	5291.4	4821.5	3790.5	2683.2	1556.7	813.7	571.3	521.3	505.3	499.4	499.4
20°	5290.0	4736.3	3520.4	2182.4	988.4	541.9	475.9	464.2	452.4	445.0	445.0
22.5°	5306.1	4659.9	3238.3	1671.3	622.7	439.1	418.6	406.8	392.1	381.9	380.3
25°	5322.2	4601.2	2950.4	1189.7	450.9	381.9	361.3	345.2	324.6	311.4	309.9
27.5°	5325.2	4527.7	2642.0	796.0	377.4	333.3	306.9	282.0	258.5	245.3	243.7
30°	5281.1	4404.3	2299.9	537.5	333.3	289.3	254.0	227.6	205.6	195.3	195.3
32.5°	5194.5	4251.6	1923.9	405.4	296.6	248.2	210.0	185.0	170.3	166.0	164.4
35°	5116.7	4087.2	1537.6	343.6	265.8	210.0	171.9	155.7	146.9	145.5	143.9
37.5°	5071.2	3954.9	1174.9	311.4	236.4	176.2	145.5	133.7	129.3	126.3	127.8
40°	5106.3	3844.9	867.9	284.9	207.0	146.9	123.4	117.5	113.1	111.7	111.7
42.5°	5260.7	3825.7	644.7	261.4	179.1	122.0	107.2	102.8	99.9	98.5	99.9
45°	5665.9	3943.2	500.9	239.4	151.3	102.8	91.0	89.6	88.1	88.1	88.1
47.5°	6275.5	4185.6	417.1	214.3	126.3	88.1	79.3	77.8	76.4	77.8	77.8
50°	7307.8	4629.1	373.0	189.4	104.3	75.0	67.5	67.5	67.5	67.5	69.1
52.5°	8877.9	5501.4	343.6	164.4	85.2	63.2	57.3	57.3	58.8	58.8	60.2
55°	10627.0	6658.7	317.2	139.6	72.0	52.9	47.0	48.5	49.9	51.4	51.4
57.5°	12524.4	7940.9	295.2	114.5	61.7	42.6	39.7	41.1	42.6	45.6	45.6
60°	14814.0	9328.7	262.9	89.6	51.4	33.8	30.8	33.8	38.1	41.1	42.6
62.5°	17328.3	10671.1	221.8	70.5	42.6	26.4	25.0	30.8	36.7	39.7	41.1
65°	19046.5	11092.4	170.3	57.3	32.3	19.1	20.5	27.9	35.3	39.7	39.7
67°	18350.4	10057.1	139.6	48.5	26.4	14.6	19.1	27.9	35.3	38.1	39.7
67.5°	17867.2	9651.8	133.7	47.0	25.0	14.6	19.1	27.9	35.3	39.7	39.7
70°	14537.9	7250.6	111.7	35.3	20.5	13.2	16.2	26.4	33.8	38.1	38.1
72.5°	10101.1	4470.5	99.9	25.0	17.6	11.8	14.6	25.0	32.3	36.7	38.1
75°	4802.4	1618.4	85.2	19.1	16.2	10.3	13.2	25.0	32.3	36.7	36.7
77.5°	979.6	376.0	69.1	16.2	13.2	10.3	11.8	23.5	30.8	35.3	35.3
80°	321.7	145.5	51.4	14.6	13.2	10.3	11.8	22.1	30.8	33.8	35.3
82.5°	232.0	73.4	33.8	14.6	13.2	10.3	10.3	22.1	29.4	33.8	33.8
85°	177.6	51.4	22.1	14.6	13.2	10.3	10.3	20.5	27.9	32.3	32.3
87.5°	117.5	20.5	17.6	14.6	13.2	10.3	10.3	20.5	26.4	30.8	32.3
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)