

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: P324868

Luminaire Tested: **GAN-SA4A-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15389 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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

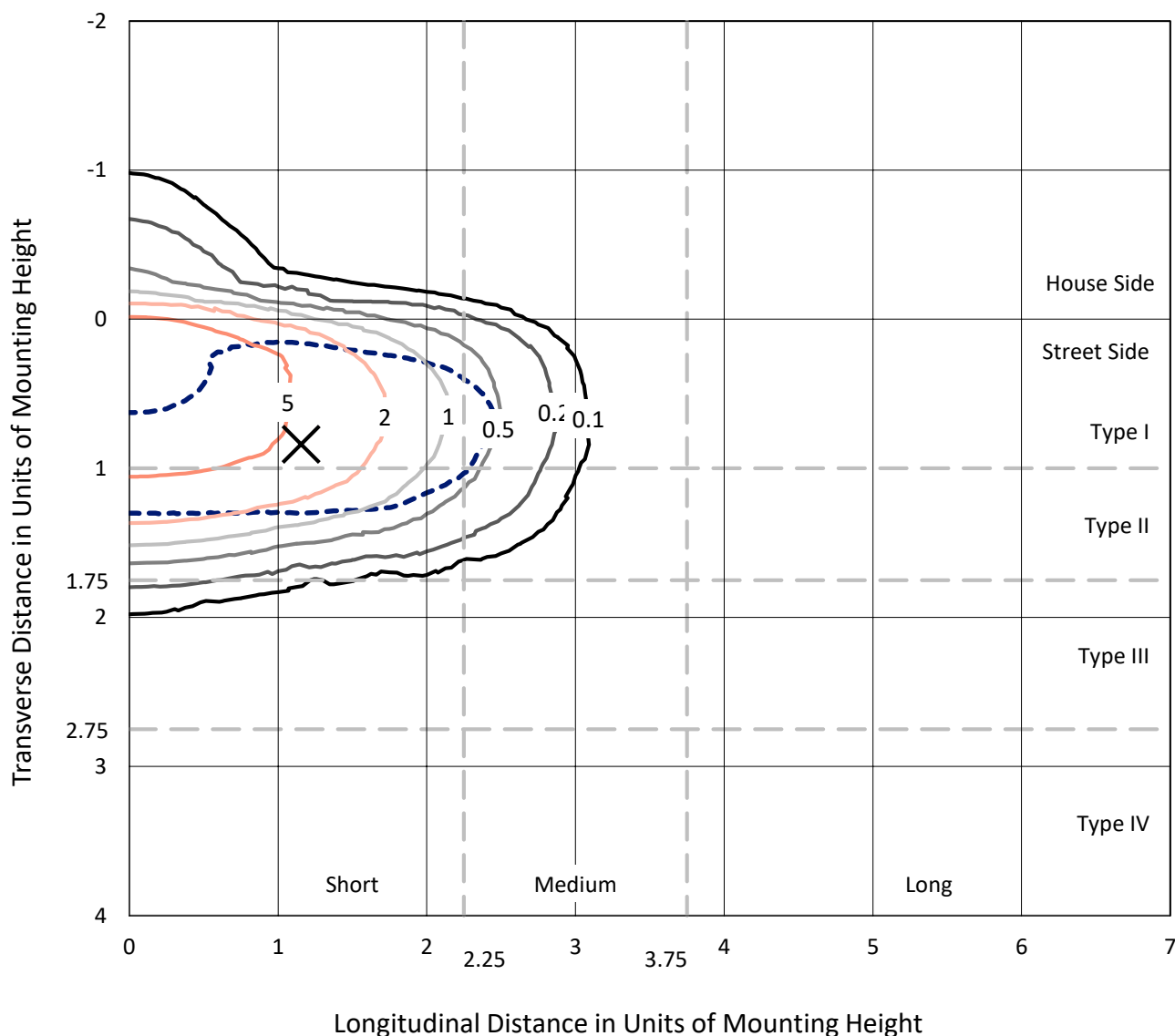


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

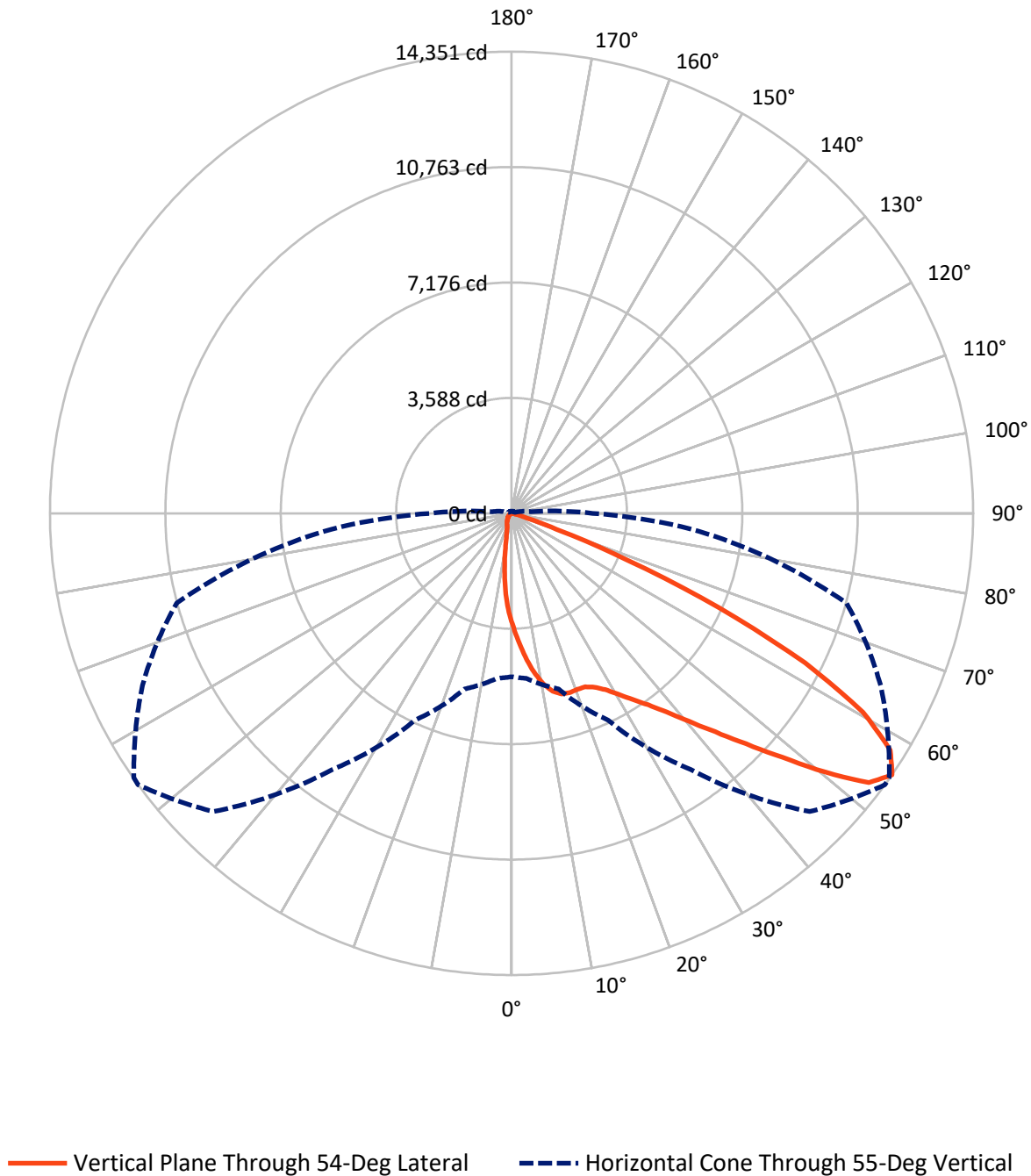
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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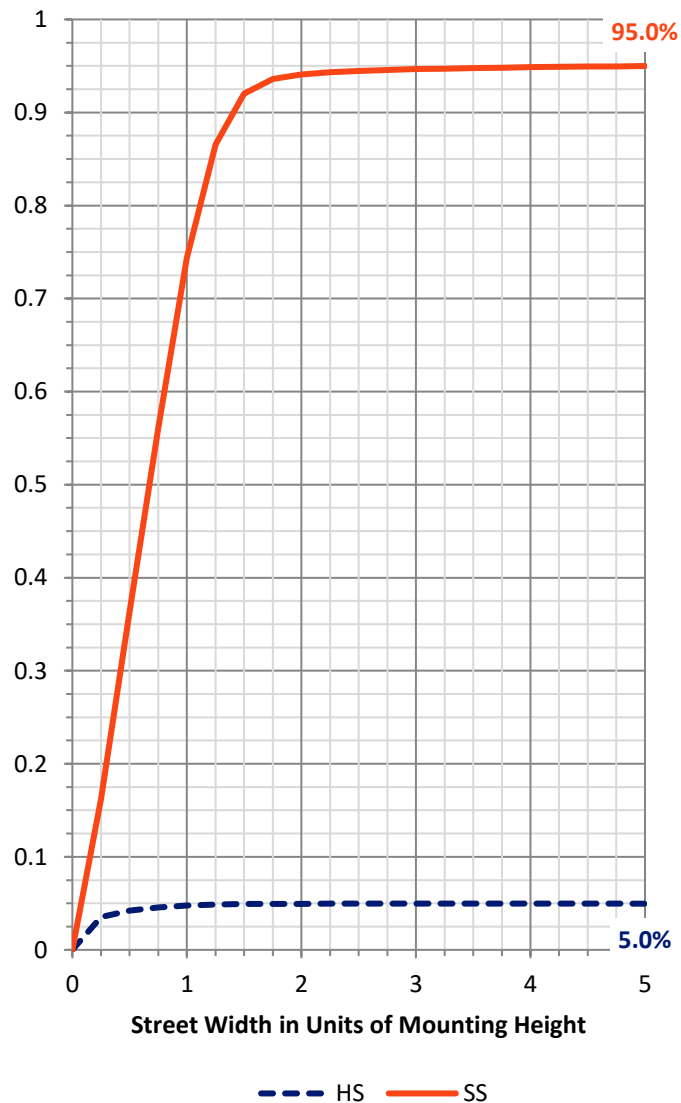
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	767.8	0.0	767.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	14621.2	0.0	14621.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	15389.0	0.0	15389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.4	2.1
10°-20°	870.4	5.7
20°-30°	1486.1	9.7
30°-40°	2385.0	15.5
40°-50°	3811.2	24.8
50°-60°	4083.8	26.5
60°-70°	2096.8	13.6
70°-80°	317.6	2.1
80°-90°	20.7	0.1
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°	15389.0	100.0
0°-180°	15389.0	100.0

Coefficient of Utilization



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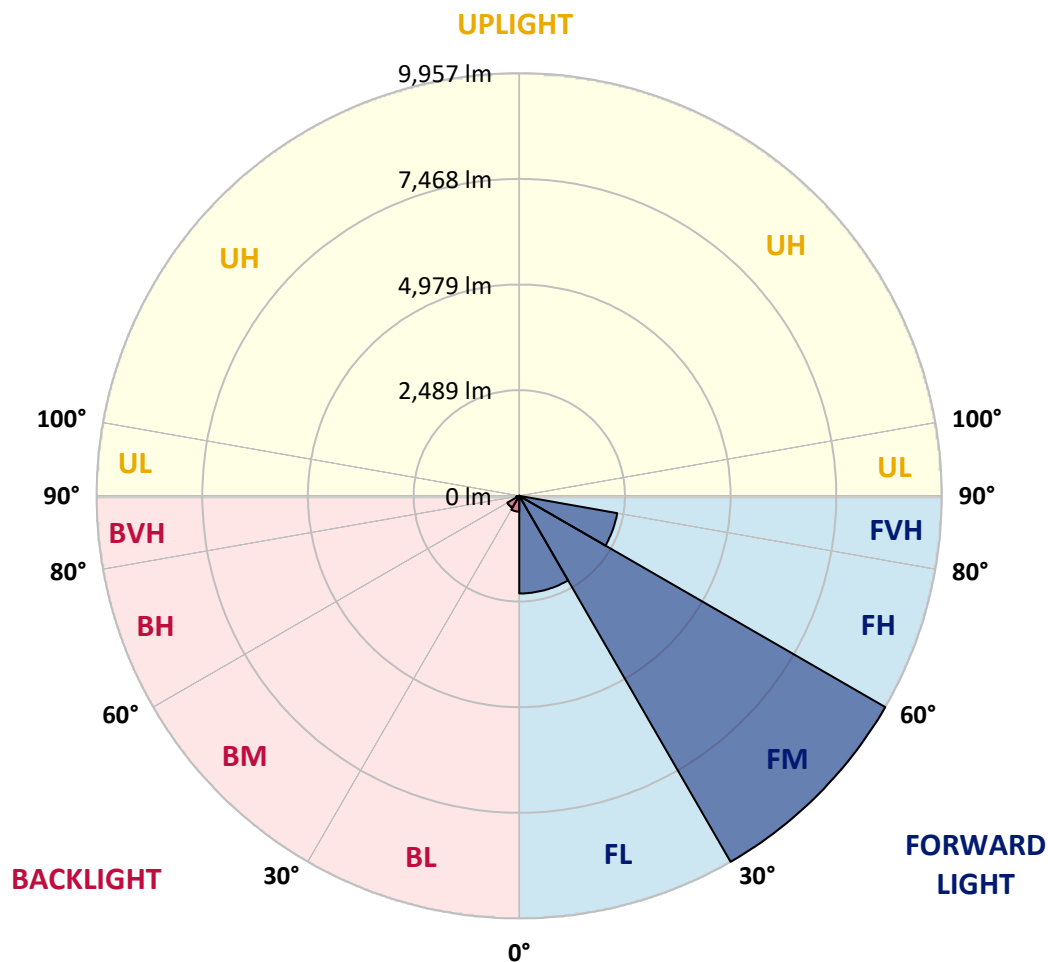
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2300.4	14.9			
FM	(30°-60°)	9957.4	64.7			
FH	(60°-80°)	2343.6	15.2			G2/5000
FVH	(80°-90°)	19.9	0.1			G1/100
BL	(0°-30°)	373.6	2.4	B1/500		
BM	(30°-60°)	322.6	2.1	B1/1000		
BH	(60°-80°)	70.8	0.5	B0/110		G0/110
BVH	(80°-90°)	0.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5
2.5°	4325.1	4260.6	4262.6	4233.4	4126.4	4042.6	3955.6	3935.0	3799.4	3657.2	3520.3
5°	5072.7	5025.6	5014.3	4957.8	4808.9	4651.4	4482.6	4443.4	4178.2	3887.1	3600.7
7.5°	5456.9	5457.5	5448.2	5427.6	5334.6	5181.7	4975.7	4934.5	4573.6	4137.0	3684.4
10°	5345.2	5370.5	5422.3	5490.8	5561.9	5542.6	5387.8	5350.5	4958.4	4401.5	3777.5
12.5°	5084.7	5088.0	5145.9	5258.2	5462.9	5672.9	5675.5	5662.9	5326.0	4678.0	3879.8
15°	4955.1	4967.7	4989.0	5061.5	5255.5	5591.8	5832.4	5850.3	5662.9	4971.7	3988.8
17.5°	5040.2	5058.1	5040.2	5048.8	5161.1	5463.5	5859.6	5905.5	5957.3	5262.2	4091.8
20°	5270.8	5287.4	5255.5	5220.3	5242.2	5426.3	5840.3	5902.1	6187.9	5520.0	4178.2
22.5°	5581.8	5588.5	5539.9	5482.1	5466.2	5552.6	5856.3	5920.1	6372.7	5753.3	4232.7
25°	5924.1	5930.1	5869.6	5803.1	5765.2	5800.5	5987.2	6035.1	6535.5	5975.9	4264.0
27.5°	6296.9	6302.2	6226.5	6144.7	6100.9	6102.2	6203.2	6254.4	6708.9	6229.8	4289.2
30°	6691.0	6688.3	6618.6	6504.9	6449.1	6447.8	6514.2	6566.1	6960.2	6555.4	4323.8
32.5°	7133.6	7128.3	7029.3	6888.4	6825.2	6834.6	6893.7	6923.6	7271.8	6902.3	4385.6
35°	7716.5	7701.2	7551.6	7376.9	7260.6	7257.2	7307.1	7331.0	7669.3	7322.4	4488.6
37.5°	8472.7	8458.8	8256.1	8002.2	7838.7	7777.6	7836.7	7867.3	8236.2	7861.3	4654.1
40°	9218.4	9204.5	9084.2	8851.6	8599.7	8452.8	8499.3	8531.9	8943.9	8515.3	4862.7
42.5°	9732.8	9744.8	9786.6	9805.9	9570.0	9261.6	9282.9	9316.8	9687.6	9214.4	5101.3
45°	9868.4	9894.3	10130.9	10595.4	10683.8	10443.2	10220.6	10239.2	10443.2	9913.6	5339.9
47.5°	9461.0	9508.8	9965.4	10829.4	11577.7	11747.8	11326.5	11301.9	11168.3	10479.1	5509.4
50°	8535.2	8579.1	9170.6	10448.5	11848.8	12993.2	12651.6	12579.2	11804.3	10817.4	5569.2
52.5°	7195.4	7248.6	7729.1	9249.6	11337.8	13548.8	13906.4	13845.9	12270.8	10844.0	5579.2
55°	5081.4	5145.9	5654.3	7089.1	9718.2	13106.9	14351.0	14333.0	12658.3	10773.5	5600.4
57.5°	2855.7	2902.2	3450.5	4544.4	7117.7	11416.2	13886.4	14005.4	12892.2	10651.2	5632.3
60°	1268.0	1280.6	1564.4	2262.2	4166.9	8724.6	12556.6	12757.3	12691.5	10487.8	5686.2
62.5°	703.1	692.5	692.5	940.4	1811.0	5401.1	10239.2	10570.8	11834.9	10294.4	5688.8
65°	550.9	541.0	512.4	516.4	689.8	2397.1	7090.4	7679.9	10208.0	9727.5	5497.4
67.5°	467.2	458.6	430.0	418.7	428.7	790.9	3895.8	4507.9	7745.7	8254.1	4761.7
70°	394.8	388.8	374.2	360.2	334.9	390.8	1490.7	1906.7	4773.0	5490.8	3250.5
72.5°	317.7	315.0	320.3	308.4	277.8	260.5	509.7	617.4	2143.9	2450.3	1339.1
75°	273.8	272.5	275.1	263.2	228.6	181.4	259.2	283.1	604.8	599.5	271.1
77.5°	178.1	180.1	228.0	222.6	196.7	121.0	134.2	144.9	183.4	137.6	82.4
80°	113.6	112.3	115.6	184.8	176.8	92.4	67.1	70.4	88.4	67.8	39.9
82.5°	69.1	67.8	75.8	86.4	89.1	64.5	41.2	41.9	55.2	43.9	21.3
85°	6.0	8.0	45.9	42.5	30.6	19.9	19.9	21.3	29.2	25.9	12.0
87.5°	0.0	0.0	8.0	12.0	6.6	7.3	7.3	8.0	11.3	11.3	6.0
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°	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5	3446.5
2.5°	3449.2	3380.1	3240.5	3106.3	2992.6	2883.0	2758.0	2634.4	2576.6	2553.3	2529.4
5°	3455.2	3312.9	3025.2	2735.4	2435.0	2164.5	1933.9	1697.3	1579.0	1527.2	1503.3
7.5°	3463.1	3246.5	2781.3	2294.8	1811.0	1444.1	1123.8	917.8	828.7	814.8	780.2
10°	3464.5	3166.1	2498.2	1808.3	1214.2	870.6	669.9	563.6	524.4	517.7	506.4
12.5°	3467.1	3071.0	2183.8	1339.1	809.5	582.2	484.5	449.3	438.6	438.0	438.0
15°	3475.1	2971.3	1857.5	965.0	581.5	461.2	425.3	411.4	407.4	409.4	408.7
17.5°	3475.1	2853.7	1537.2	719.1	469.9	414.7	394.8	385.5	384.1	386.1	386.8
20°	3449.8	2710.8	1243.4	559.6	416.7	384.8	366.8	358.2	354.9	356.2	356.9
22.5°	3389.4	2535.4	1004.2	463.2	381.5	357.5	338.3	325.0	319.7	320.3	320.3
25°	3295.0	2327.4	785.5	400.7	352.9	328.3	305.7	290.4	287.1	286.4	287.8
27.5°	3174.0	2097.4	625.4	352.9	319.0	295.7	273.1	260.5	257.9	258.5	259.2
30°	3055.1	1858.8	493.1	312.4	281.1	259.2	241.9	235.9	235.9	237.9	238.6
32.5°	2946.1	1629.6	390.1	277.1	247.2	227.3	217.3	216.7	220.0	221.3	222.0
35°	2852.4	1417.6	323.0	249.9	220.6	203.4	200.0	202.7	206.7	209.3	210.0
37.5°	2785.9	1228.1	282.4	227.3	200.0	186.1	185.4	190.7	196.1	202.0	203.4
40°	2758.0	1068.0	254.5	207.3	183.4	172.8	170.8	178.1	188.1	196.7	198.0
42.5°	2734.8	937.1	230.6	188.1	170.1	154.8	154.2	163.5	175.4	184.1	186.1
45°	2714.8	832.1	208.7	167.5	152.9	132.9	134.9	146.9	156.2	165.5	167.5
47.5°	2673.6	745.7	184.8	145.5	126.3	113.6	117.6	128.3	135.6	149.5	151.5
50°	2599.8	675.2	160.2	119.0	103.0	98.4	104.3	111.6	121.0	132.9	134.2
52.5°	2550.0	622.0	138.9	99.7	85.1	86.4	92.4	95.0	100.4	105.0	103.7
55°	2521.4	592.8	121.6	86.4	72.4	76.4	77.8	74.4	71.8	67.1	65.1
57.5°	2518.1	566.2	108.3	75.1	63.8	65.8	61.1	49.8	40.5	35.2	33.9
60°	2512.8	533.7	97.7	63.1	56.5	53.8	43.9	27.2	19.3	17.9	17.9
62.5°	2455.0	483.2	89.7	53.2	47.8	40.5	25.3	12.6	10.6	11.3	11.3
65°	2270.9	412.7	81.7	43.2	37.9	29.2	12.6	7.3	4.0	4.7	4.7
67.5°	1930.6	329.0	73.1	33.2	28.6	18.6	7.3	3.3	0.0	0.0	0.0
70°	1292.6	204.0	61.8	23.3	18.6	11.3	5.3	0.7	0.0	0.0	0.0
72.5°	495.8	110.3	49.8	14.0	12.0	8.0	3.3	0.0	0.0	0.0	0.0
75°	111.6	72.4	34.6	10.0	8.6	5.3	1.3	0.0	0.0	0.0	0.0
77.5°	42.5	52.5	19.9	6.6	6.0	3.3	0.0	0.0	0.0	0.0	0.0
80°	20.6	31.2	9.3	4.0	3.3	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	10.6	12.0	4.0	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.0	6.0	2.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	2.0	0.7	0.7	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)