

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: P324896

Luminaire Tested: **GAN-SA2D-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324896
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-SA2D-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA 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: 12996 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

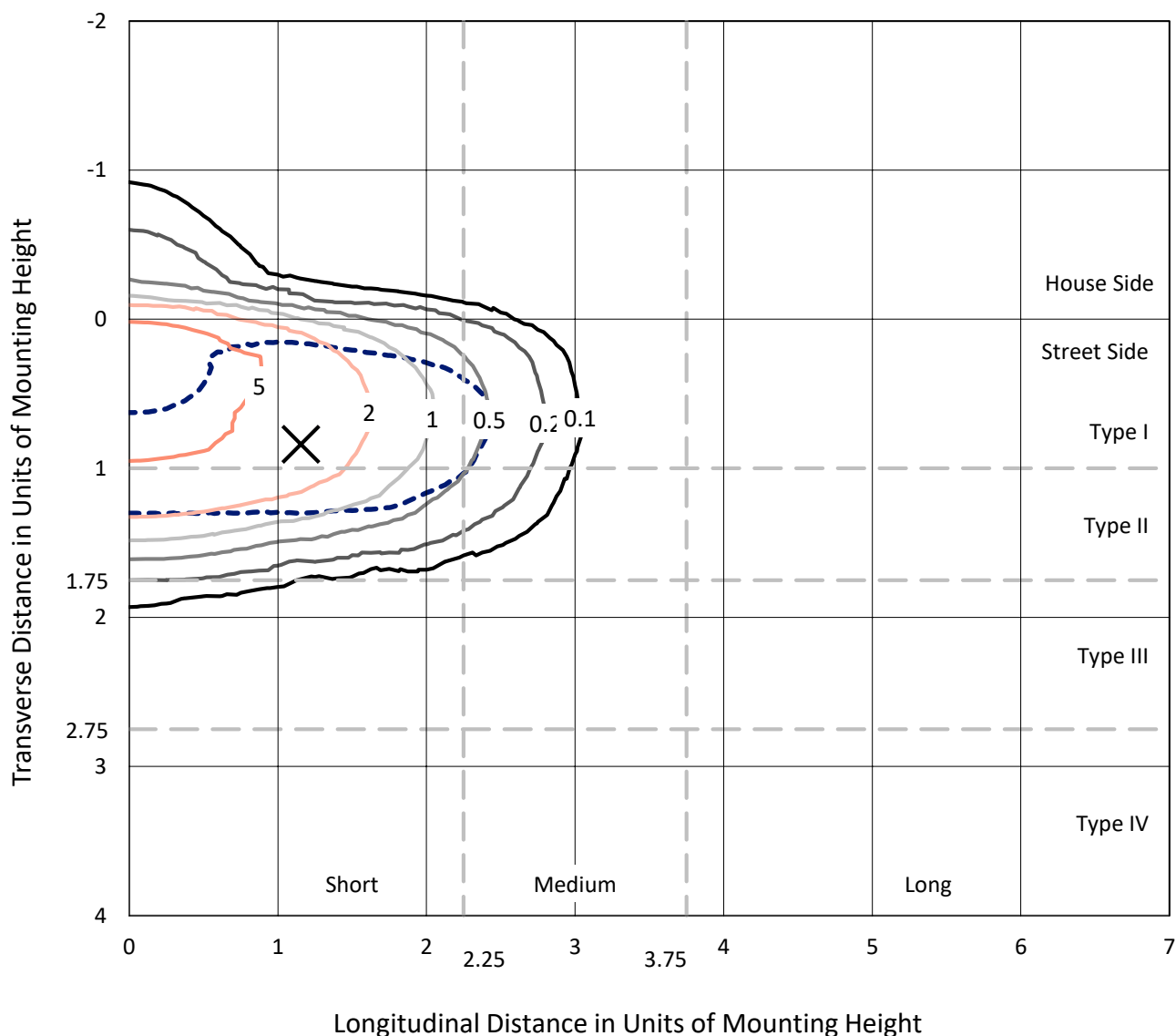
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

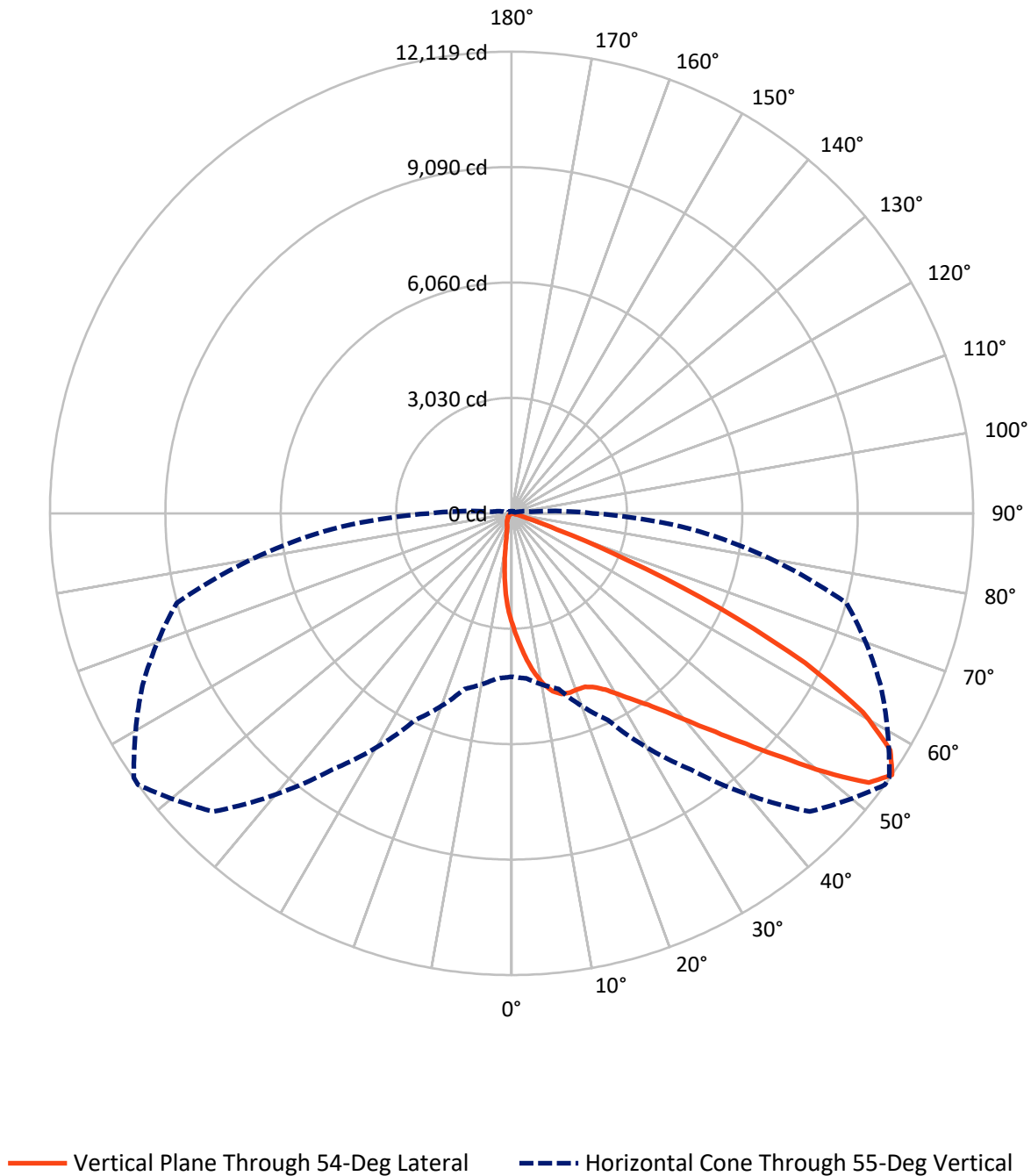
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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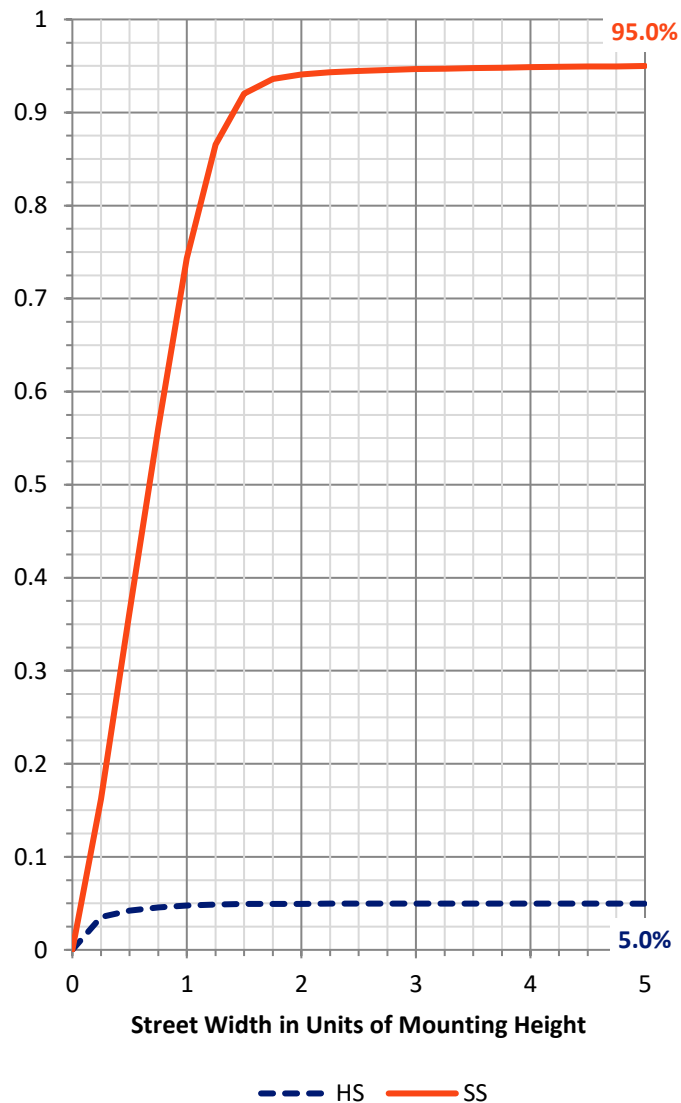
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	648.4	0.0	648.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	12347.6	0.0	12347.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	12996.0	0.0	12996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	2.1
10°-20°	735.1	5.7
20°-30°	1255.0	9.7
30°-40°	2014.1	15.5
40°-50°	3218.6	24.8
50°-60°	3448.8	26.5
60°-70°	1770.7	13.6
70°-80°	268.2	2.1
80°-90°	17.5	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°	12996.0	100.0
0°-180°	12996.0	100.0

Coefficient of Utilization



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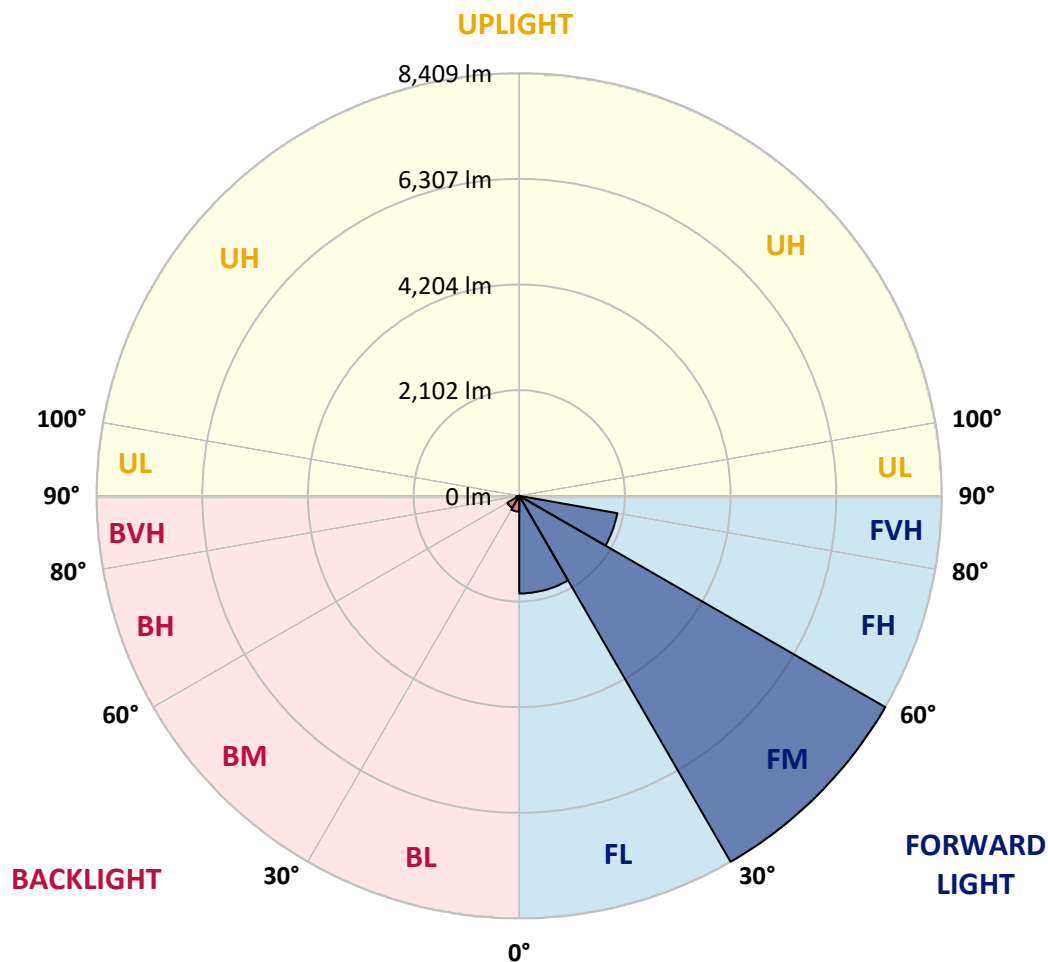
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1942.7	14.9			
FM	(30°-60°)	8409.0	64.7			
FH	(60°-80°)	1979.2	15.2			G2/5000
FVH	(80°-90°)	16.8	0.1			G1/100
BL	(0°-30°)	315.5	2.4	B1/500		
BM	(30°-60°)	272.5	2.1	B1/1000		
BH	(60°-80°)	59.8	0.5	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6
2.5°	3652.5	3598.1	3599.8	3575.1	3484.7	3414.0	3340.5	3323.1	3208.6	3088.5	2972.9
5°	4283.9	4244.1	4234.5	4186.8	4061.1	3928.1	3785.6	3752.4	3528.5	3282.7	3040.8
7.5°	4608.3	4608.9	4601.0	4583.6	4505.1	4376.0	4202.0	4167.2	3862.4	3493.7	3111.5
10°	4514.0	4535.4	4579.1	4637.0	4697.0	4680.7	4550.0	4518.5	4187.4	3717.1	3190.1
12.5°	4294.0	4296.8	4345.7	4440.5	4613.4	4790.7	4793.0	4782.3	4497.8	3950.6	3276.5
15°	4184.6	4195.3	4213.2	4274.4	4438.3	4722.3	4925.4	4940.6	4782.3	4198.6	3368.6
17.5°	4256.4	4271.6	4256.4	4263.7	4358.6	4613.9	4948.4	4987.2	5030.9	4443.9	3455.5
20°	4451.2	4465.2	4438.3	4408.5	4427.0	4582.5	4932.2	4984.4	5225.7	4661.6	3528.5
22.5°	4713.8	4719.5	4678.5	4629.7	4616.2	4689.1	4945.6	4999.5	5381.7	4858.6	3574.5
25°	5002.9	5007.9	4956.9	4900.7	4868.7	4898.5	5056.2	5096.6	5519.2	5046.7	3600.9
27.5°	5317.7	5322.2	5258.2	5189.2	5152.2	5153.3	5238.6	5281.8	5665.7	5261.0	3622.2
30°	5650.5	5648.3	5589.4	5493.4	5446.3	5445.1	5501.3	5545.0	5877.8	5536.1	3651.4
32.5°	6024.3	6019.8	5936.2	5817.2	5763.9	5771.8	5821.7	5847.0	6141.1	5829.0	3703.6
35°	6516.5	6503.6	6377.4	6229.7	6131.5	6128.7	6170.8	6191.0	6476.7	6183.7	3790.6
37.5°	7155.2	7143.4	6972.3	6757.9	6619.8	6568.2	6618.1	6643.9	6955.4	6638.9	3930.4
40°	7784.9	7773.2	7671.6	7475.1	7262.4	7138.4	7177.7	7205.2	7553.1	7191.1	4106.6
42.5°	8219.3	8229.4	8264.8	8281.1	8081.8	7821.4	7839.4	7868.0	8181.2	7781.6	4308.1
45°	8333.8	8355.7	8555.5	8947.8	9022.5	8819.3	8631.3	8647.0	8819.3	8372.0	4509.6
47.5°	7989.8	8030.2	8415.8	9145.4	9777.3	9921.0	9565.2	9544.4	9431.6	8849.6	4652.7
50°	7208.0	7245.0	7744.5	8823.8	10006.3	10972.8	10684.3	10623.1	9968.7	9135.3	4703.2
52.5°	6076.5	6121.4	6527.2	7811.3	9574.7	11442.0	11743.9	11692.8	10362.7	9157.7	4711.6
55°	4291.2	4345.7	4775.0	5986.7	8207.0	11068.7	12119.4	12104.2	10689.9	9098.2	4729.6
57.5°	2411.6	2450.9	2913.9	3837.7	6010.9	9641.0	11727.1	11827.5	10887.5	8995.0	4756.5
60°	1070.8	1081.5	1321.2	1910.5	3519.0	7367.9	10604.0	10773.5	10718.0	8856.9	4802.0
62.5°	593.8	584.8	584.8	794.2	1529.4	4561.2	8647.0	8927.1	9994.5	8693.6	4804.2
65°	465.3	456.8	432.7	436.1	582.6	2024.4	5987.9	6485.7	8620.6	8214.8	4642.6
67.5°	394.6	387.3	363.1	353.6	362.0	667.9	3290.0	3806.9	6541.2	6970.6	4021.3
70°	333.4	328.3	316.0	304.2	282.9	330.0	1258.9	1610.2	4030.8	4637.0	2745.0
72.5°	268.3	266.0	270.5	260.4	234.6	220.0	430.5	521.4	1810.6	2069.3	1130.9
75°	231.2	230.1	232.4	222.3	193.1	153.2	218.9	239.1	510.7	506.2	229.0
77.5°	150.4	152.1	192.5	188.0	166.1	102.1	113.4	122.3	154.9	116.2	69.6
80°	96.0	94.8	97.7	156.0	149.3	78.0	56.7	59.5	74.6	57.2	33.7
82.5°	58.4	57.2	64.0	73.0	75.2	54.4	34.8	35.4	46.6	37.0	18.0
85°	5.1	6.7	38.7	35.9	25.8	16.8	16.8	18.0	24.7	21.9	10.1
87.5°	0.0	0.0	6.7	10.1	5.6	6.2	6.2	6.7	9.5	9.5	5.1
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°	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6	2910.6
2.5°	2912.8	2854.5	2736.6	2623.2	2527.3	2434.7	2329.1	2224.7	2175.9	2156.3	2136.1
5°	2917.9	2797.8	2554.8	2310.1	2056.4	1828.0	1633.2	1433.4	1333.5	1289.7	1269.5
7.5°	2924.6	2741.6	2348.8	1938.0	1529.4	1219.6	949.1	775.1	699.9	688.1	658.9
10°	2925.7	2673.7	2109.7	1527.1	1025.4	735.2	565.7	475.9	442.8	437.2	427.7
12.5°	2928.0	2593.5	1844.2	1130.9	683.6	491.6	409.1	379.4	370.4	369.9	369.9
15°	2934.7	2509.3	1568.7	814.9	491.1	389.5	359.2	347.4	344.0	345.7	345.2
17.5°	2934.7	2410.0	1298.1	607.3	396.8	350.2	333.4	325.5	324.4	326.1	326.6
20°	2913.4	2289.3	1050.1	472.6	351.9	325.0	309.8	302.5	299.7	300.8	301.4
22.5°	2862.3	2141.1	848.0	391.2	322.2	301.9	285.7	274.4	270.0	270.5	270.5
25°	2782.6	1965.5	663.4	338.4	298.0	277.3	258.2	245.3	242.5	241.9	243.0
27.5°	2680.5	1771.3	528.1	298.0	269.4	249.8	230.7	220.0	217.8	218.3	218.9
30°	2580.0	1569.8	416.4	263.8	237.4	218.9	204.3	199.2	199.2	200.9	201.5
32.5°	2488.0	1376.2	329.4	234.0	208.8	191.9	183.5	183.0	185.8	186.9	187.5
35°	2408.8	1197.1	272.8	211.0	186.3	171.7	168.9	171.2	174.5	176.8	177.4
37.5°	2352.7	1037.2	238.5	191.9	168.9	157.1	156.6	161.1	165.6	170.6	171.7
40°	2329.1	901.9	215.0	175.1	154.9	145.9	144.2	150.4	158.8	166.1	167.2
42.5°	2309.5	791.3	194.7	158.8	143.7	130.8	130.2	138.1	148.2	155.5	157.1
45°	2292.7	702.7	176.2	141.4	129.1	112.2	113.9	124.0	131.9	139.7	141.4
47.5°	2257.9	629.7	156.0	122.9	106.6	96.0	99.3	108.3	114.5	126.3	128.0
50°	2195.6	570.2	135.3	100.5	87.0	83.1	88.1	94.3	102.1	112.2	113.4
52.5°	2153.5	525.3	117.3	84.2	71.8	73.0	78.0	80.3	84.7	88.7	87.6
55°	2129.3	500.6	102.7	73.0	61.2	64.5	65.7	62.9	60.6	56.7	55.0
57.5°	2126.5	478.2	91.5	63.4	53.9	55.6	51.6	42.1	34.2	29.7	28.6
60°	2122.0	450.7	82.5	53.3	47.7	45.5	37.0	23.0	16.3	15.2	15.2
62.5°	2073.2	408.0	75.8	44.9	40.4	34.2	21.3	10.7	9.0	9.5	9.5
65°	1917.8	348.5	69.0	36.5	32.0	24.7	10.7	6.2	3.4	3.9	3.9
67.5°	1630.4	277.8	61.7	28.1	24.1	15.7	6.2	2.8	0.0	0.0	0.0
70°	1091.6	172.3	52.2	19.6	15.7	9.5	4.5	0.6	0.0	0.0	0.0
72.5°	418.7	93.2	42.1	11.8	10.1	6.7	2.8	0.0	0.0	0.0	0.0
75°	94.3	61.2	29.2	8.4	7.3	4.5	1.1	0.0	0.0	0.0	0.0
77.5°	35.9	44.3	16.8	5.6	5.1	2.8	0.0	0.0	0.0	0.0	0.0
80°	17.4	26.4	7.9	3.4	2.8	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	9.0	10.1	3.4	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	5.1	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.7	0.6	0.6	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)