

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: P324897

Luminaire Tested: **GAN-SA3D-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324897
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-SA3D-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 19391 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

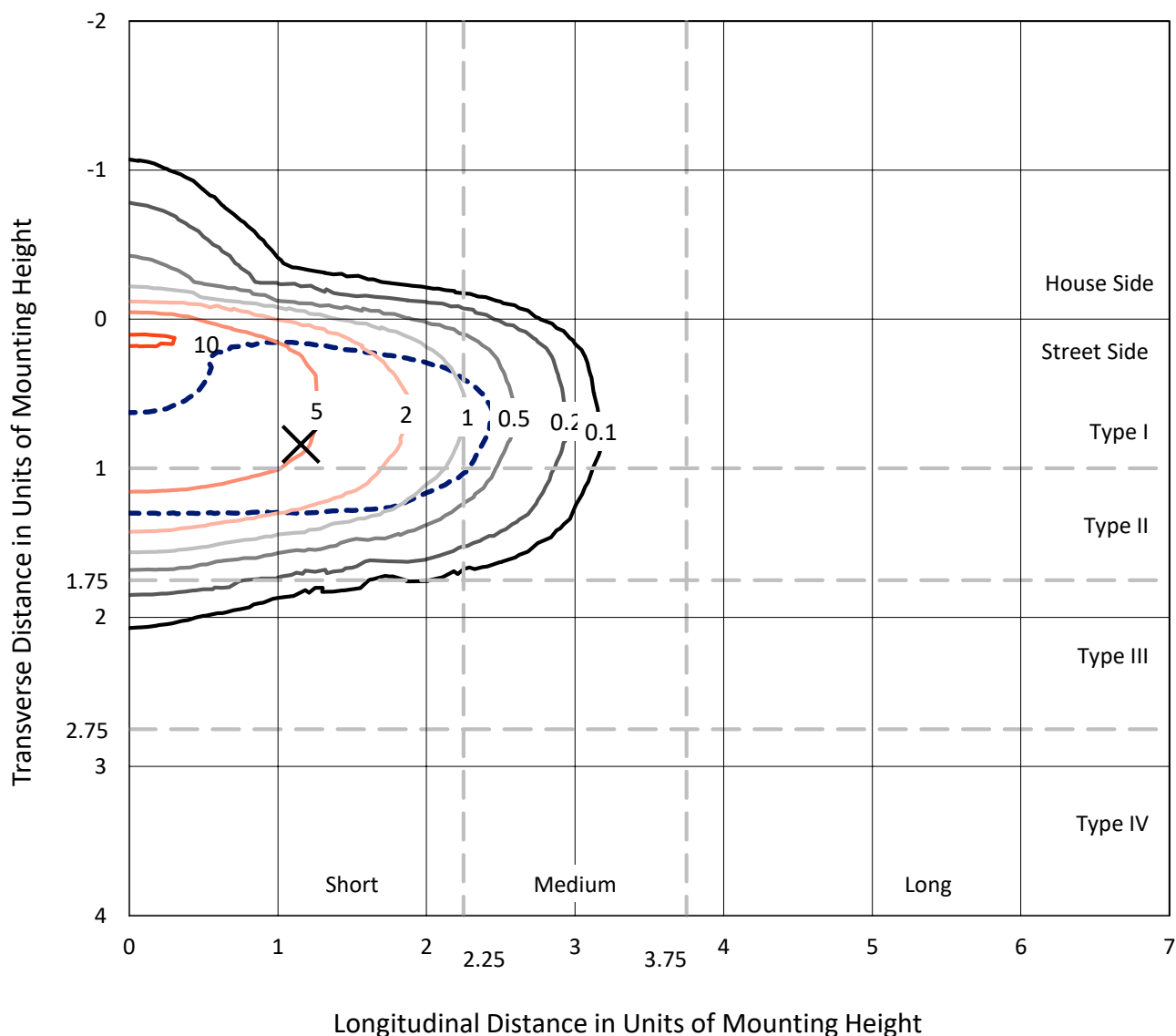
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

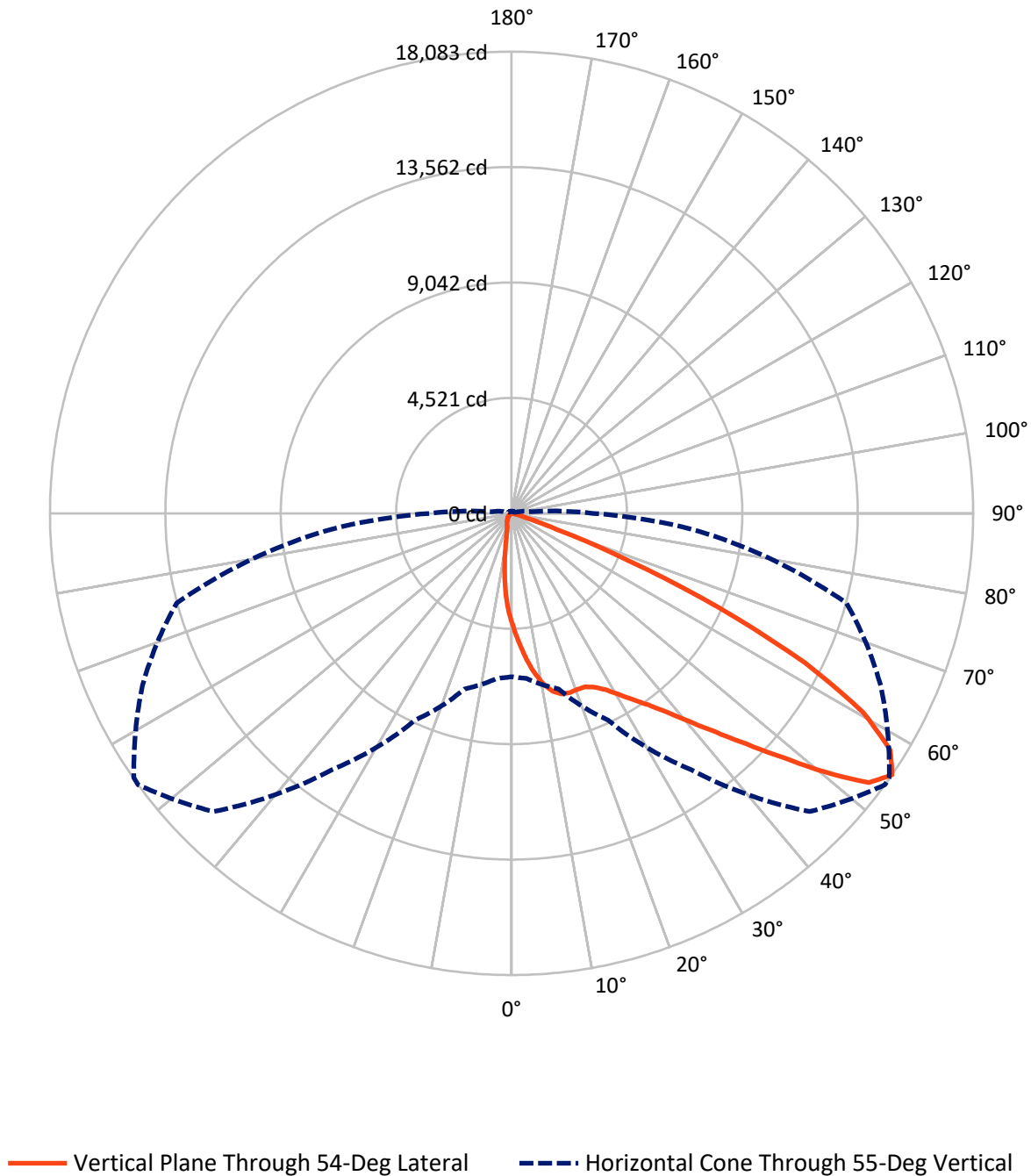
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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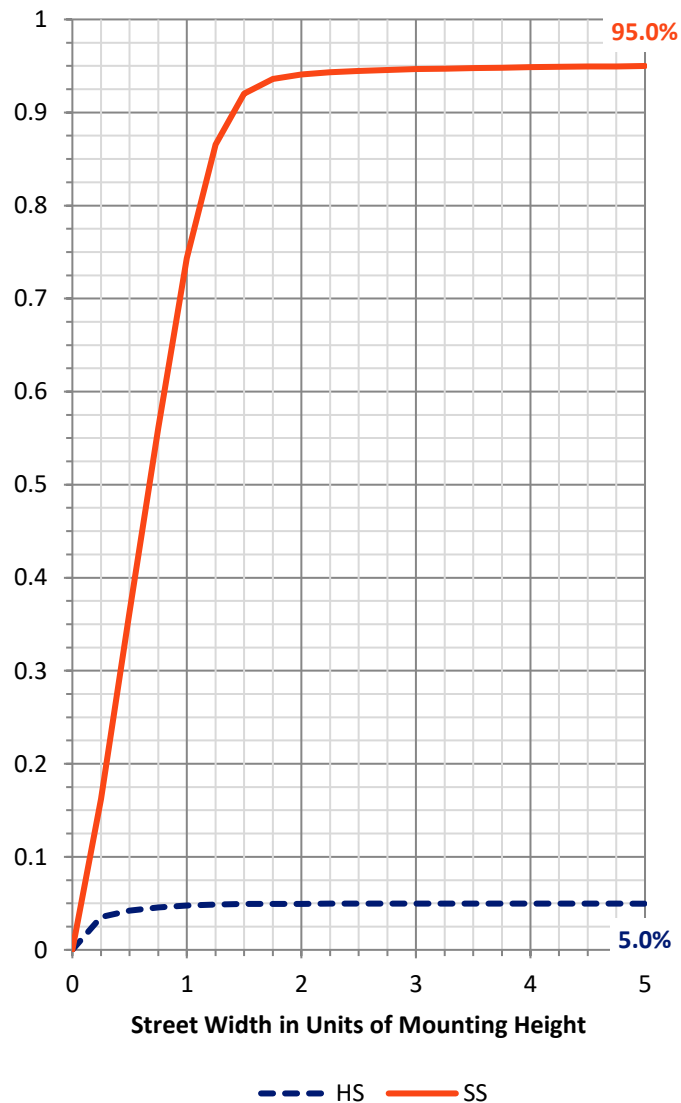
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.5	0.0	967.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	18423.5	0.0	18423.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	19391.0	0.0	19391.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.9	2.1
10°-20°	1096.8	5.7
20°-30°	1872.6	9.7
30°-40°	3005.2	15.5
40°-50°	4802.3	24.8
50°-60°	5145.8	26.5
60°-70°	2642.0	13.6
70°-80°	400.2	2.1
80°-90°	26.1	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°	19391.0	100.0
0°-180°	19391.0	100.0

Coefficient of Utilization



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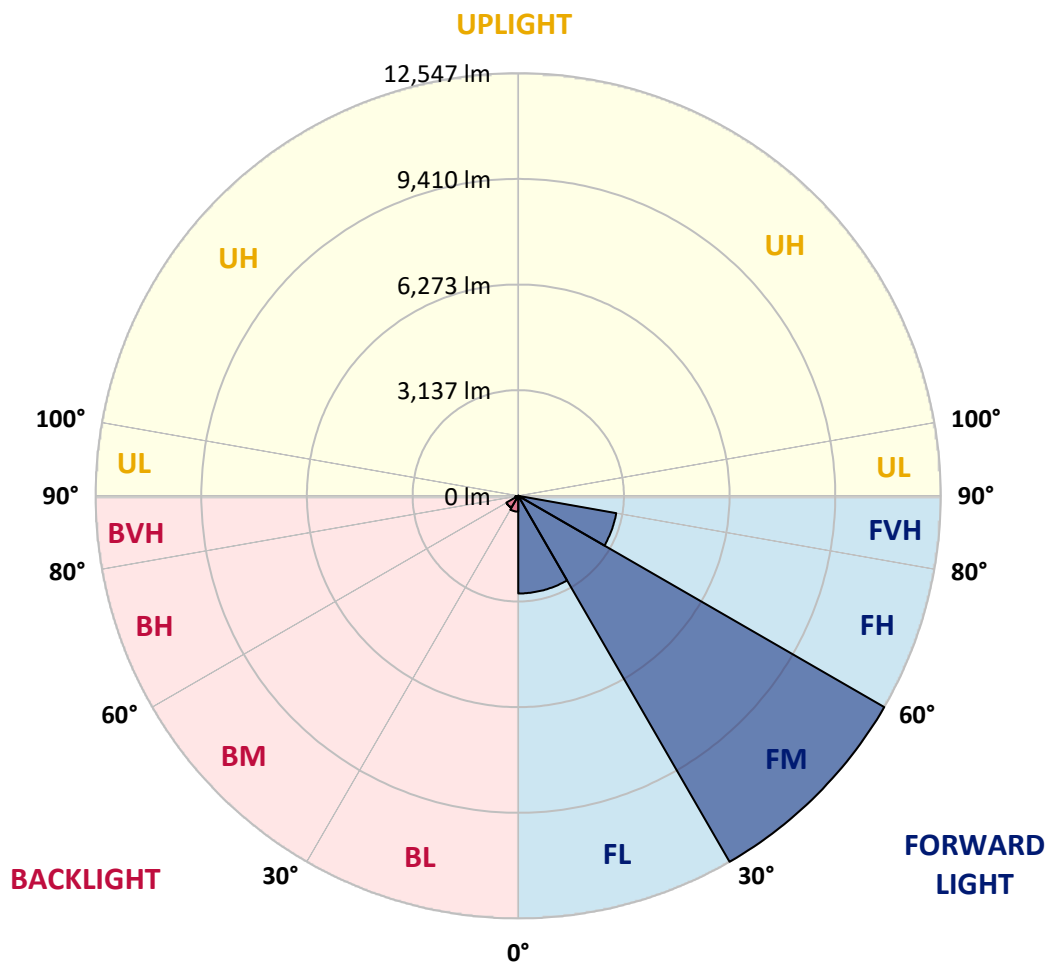
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2898.6	14.9			
FM	(30°-60°)	12546.8	64.7			
FH	(60°-80°)	2953.1	15.2			G2/5000
FVH	(80°-90°)	25.0	0.1			G1/100
BL	(0°-30°)	470.7	2.4	B1/500		
BM	(30°-60°)	406.5	2.1	B1/1000		
BH	(60°-80°)	89.2	0.5	B0/110		G0/110
BVH	(80°-90°)	1.0	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°	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8
2.5°	5449.9	5368.6	5371.1	5334.3	5199.5	5094.0	4984.3	4958.3	4787.5	4608.3	4435.8
5°	6391.9	6332.5	6318.3	6247.1	6059.5	5861.0	5648.3	5598.9	5264.8	4898.0	4537.1
7.5°	6876.0	6876.8	6865.1	6839.1	6721.9	6529.3	6269.7	6217.8	5763.1	5212.9	4642.6
10°	6735.3	6767.1	6832.4	6918.7	7008.3	6984.0	6788.9	6742.0	6247.9	5546.2	4759.8
12.5°	6407.0	6411.2	6484.1	6625.6	6883.5	7148.1	7151.5	7135.6	6711.0	5894.5	4888.8
15°	6243.7	6259.6	6286.4	6377.7	6622.2	7046.0	7349.1	7371.7	7135.6	6264.7	5026.1
17.5°	6350.9	6373.5	6350.9	6361.8	6503.3	6884.3	7383.4	7441.2	7506.5	6630.6	5155.9
20°	6641.5	6662.4	6622.2	6577.9	6605.5	6837.4	7359.2	7437.0	7797.1	6955.5	5264.8
22.5°	7033.4	7041.8	6980.6	6907.8	6887.7	6996.6	7379.3	7459.6	8029.9	7249.5	5333.5
25°	7464.7	7472.2	7396.0	7312.3	7264.5	7308.9	7544.2	7604.5	8235.1	7530.0	5372.8
27.5°	7934.5	7941.2	7845.7	7742.7	7687.4	7689.1	7816.4	7880.9	8453.6	7849.9	5404.6
30°	8431.0	8427.7	8339.8	8196.6	8126.2	8124.5	8208.3	8273.6	8770.2	8260.2	5448.2
32.5°	8988.8	8982.1	8857.3	8679.7	8600.2	8611.9	8686.6	8724.1	9162.9	8697.3	5526.1
35°	9723.2	9703.9	9515.5	9295.2	9148.7	9144.5	9207.3	9237.5	9663.7	9226.6	5655.9
37.5°	10676.1	10658.5	10403.1	10083.2	9877.2	9800.2	9874.7	9913.3	10378.0	9905.7	5864.4
40°	11615.7	11598.1	11446.6	11153.5	10836.1	10651.0	10709.6	10750.7	11269.9	10729.7	6127.3
42.5°	12263.9	12278.9	12331.7	12356.0	12058.7	11670.1	11696.9	11739.6	12206.9	11610.7	6428.0
45°	12434.7	12467.4	12765.5	13350.8	13462.2	13159.1	12878.5	12902.0	13159.1	12491.6	6728.6
47.5°	11921.4	11981.7	12557.0	13645.6	14588.5	14802.9	14272.0	14241.0	14072.7	13204.3	6942.1
50°	10754.9	10810.1	11555.4	13165.8	14930.2	16372.2	15941.8	15850.5	14874.1	13630.5	7017.5
52.5°	9066.6	9133.6	9739.1	11655.1	14286.2	17072.3	17522.8	17446.6	15461.9	13664.0	7030.1
55°	6402.8	6484.1	7124.7	8932.6	12245.4	16515.4	18083.0	18060.4	15950.1	13575.2	7056.8
57.5°	3598.3	3657.0	4347.8	5726.2	8968.7	14385.0	17497.7	17647.6	16244.9	13421.2	7097.0
60°	1597.8	1613.7	1971.3	2850.5	5250.6	10993.5	15822.0	16074.9	15992.0	13215.2	7164.9
62.5°	886.0	872.6	872.6	1184.9	2281.9	6805.6	12902.0	13319.8	14912.6	12971.5	7168.2
65°	694.2	681.7	645.6	650.7	869.2	3020.5	8934.3	9677.1	12862.6	12257.2	6927.1
67.5°	588.7	577.8	541.8	527.6	540.1	996.5	4908.9	5680.1	9760.0	10400.6	6000.0
70°	497.4	489.9	471.5	453.9	422.1	492.4	1878.3	2402.5	6014.3	6918.7	4095.8
72.5°	400.3	396.9	403.6	388.6	350.0	328.3	642.3	778.0	2701.5	3087.5	1687.4
75°	345.0	343.3	346.7	331.6	288.1	228.6	326.6	356.7	762.0	755.3	341.7
77.5°	224.4	226.9	287.2	280.5	247.9	152.4	169.2	182.6	231.1	173.3	103.8
80°	143.2	141.5	145.7	232.8	222.8	116.4	84.6	88.8	111.4	85.4	50.2
82.5°	87.1	85.4	95.5	108.9	112.2	81.2	51.9	52.8	69.5	55.3	26.8
85°	7.5	10.0	57.8	53.6	38.5	25.1	25.1	26.8	36.8	32.7	15.1
87.5°	0.0	0.0	10.0	15.1	8.4	9.2	9.2	10.0	14.2	14.2	7.5
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°	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8	4342.8
2.5°	4346.2	4259.1	4083.2	3914.1	3770.9	3632.7	3475.2	3319.5	3246.6	3217.3	3187.2
5°	4353.7	4174.5	3811.9	3446.8	3068.3	2727.4	2436.9	2138.7	1989.7	1924.4	1894.2
7.5°	4363.7	4090.7	3504.6	2891.6	2281.9	1819.7	1416.1	1156.5	1044.2	1026.7	983.1
10°	4365.4	3989.4	3147.8	2278.6	1529.9	1097.0	844.1	710.1	660.7	652.3	638.1
12.5°	4368.8	3869.7	2751.7	1687.4	1020.0	733.6	610.5	566.1	552.7	551.9	551.9
15°	4378.8	3744.1	2340.6	1215.9	732.7	581.2	535.9	518.4	513.3	515.8	515.0
17.5°	4378.8	3595.8	1936.9	906.1	592.0	522.5	497.4	485.7	484.0	486.5	487.4
20°	4347.0	3415.8	1566.8	705.1	525.1	484.9	462.3	451.4	447.2	448.9	449.7
22.5°	4270.8	3194.7	1265.3	583.7	480.7	450.5	426.2	409.5	402.8	403.6	403.6
25°	4151.9	2932.6	989.8	505.0	444.7	413.7	385.2	365.9	361.8	360.9	362.6
27.5°	3999.5	2642.9	788.0	444.7	402.0	372.6	344.2	328.3	324.9	325.8	326.6
30°	3849.6	2342.2	621.4	393.6	354.2	326.6	304.8	297.3	297.3	299.8	300.6
32.5°	3712.2	2053.3	491.6	349.2	311.5	286.4	273.8	273.0	277.2	278.9	279.7
35°	3594.2	1786.2	407.0	314.9	278.0	256.2	252.1	255.4	260.4	263.8	264.6
37.5°	3510.4	1547.5	355.9	286.4	252.1	234.5	233.6	240.3	247.0	254.6	256.2
40°	3475.2	1345.7	320.7	261.3	231.1	217.7	215.2	224.4	237.0	247.9	249.5
42.5°	3445.9	1180.7	290.6	237.0	214.4	195.1	194.3	206.0	221.1	232.0	234.5
45°	3420.8	1048.4	262.9	211.0	192.6	167.5	170.0	185.1	196.8	208.5	211.0
47.5°	3368.9	939.6	232.8	183.4	159.1	143.2	148.2	161.6	170.8	188.4	190.9
50°	3275.9	850.8	201.8	149.9	129.8	123.9	131.5	140.7	152.4	167.5	169.2
52.5°	3213.1	783.8	175.0	125.6	107.2	108.9	116.4	119.7	126.4	132.3	130.6
55°	3177.1	747.0	153.2	108.9	91.3	96.3	98.0	93.8	90.4	84.6	82.1
57.5°	3172.9	713.5	136.5	94.6	80.4	82.9	77.0	62.8	51.1	44.4	42.7
60°	3166.2	672.4	123.1	79.6	71.2	67.8	55.3	34.3	24.3	22.6	22.6
62.5°	3093.4	608.8	113.1	67.0	60.3	51.1	31.8	15.9	13.4	14.2	14.2
65°	2861.4	520.0	103.0	54.4	47.7	36.8	15.9	9.2	5.0	5.9	5.9
67.5°	2432.7	414.5	92.1	41.9	36.0	23.4	9.2	4.2	0.0	0.0	0.0
70°	1628.8	257.1	77.9	29.3	23.4	14.2	6.7	0.8	0.0	0.0	0.0
72.5°	624.7	139.0	62.8	17.6	15.1	10.0	4.2	0.0	0.0	0.0	0.0
75°	140.7	91.3	43.5	12.6	10.9	6.7	1.7	0.0	0.0	0.0	0.0
77.5°	53.6	66.2	25.1	8.4	7.5	4.2	0.0	0.0	0.0	0.0	0.0
80°	26.0	39.4	11.7	5.0	4.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	13.4	15.1	5.0	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.5	7.5	2.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.5	0.8	0.8	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)