

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: P192652

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-AFL-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 12525.5 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

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: 28.75 FT

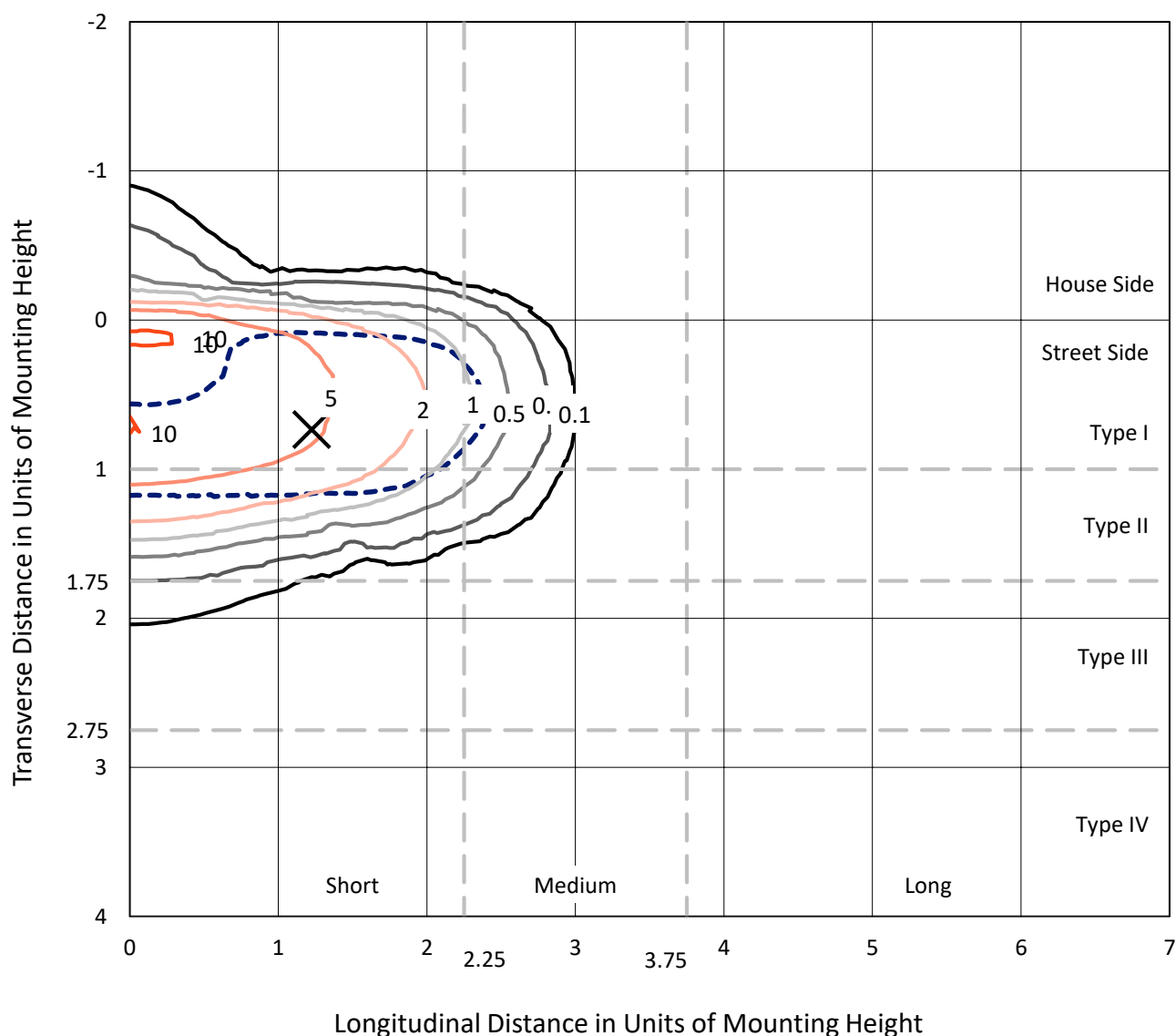


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

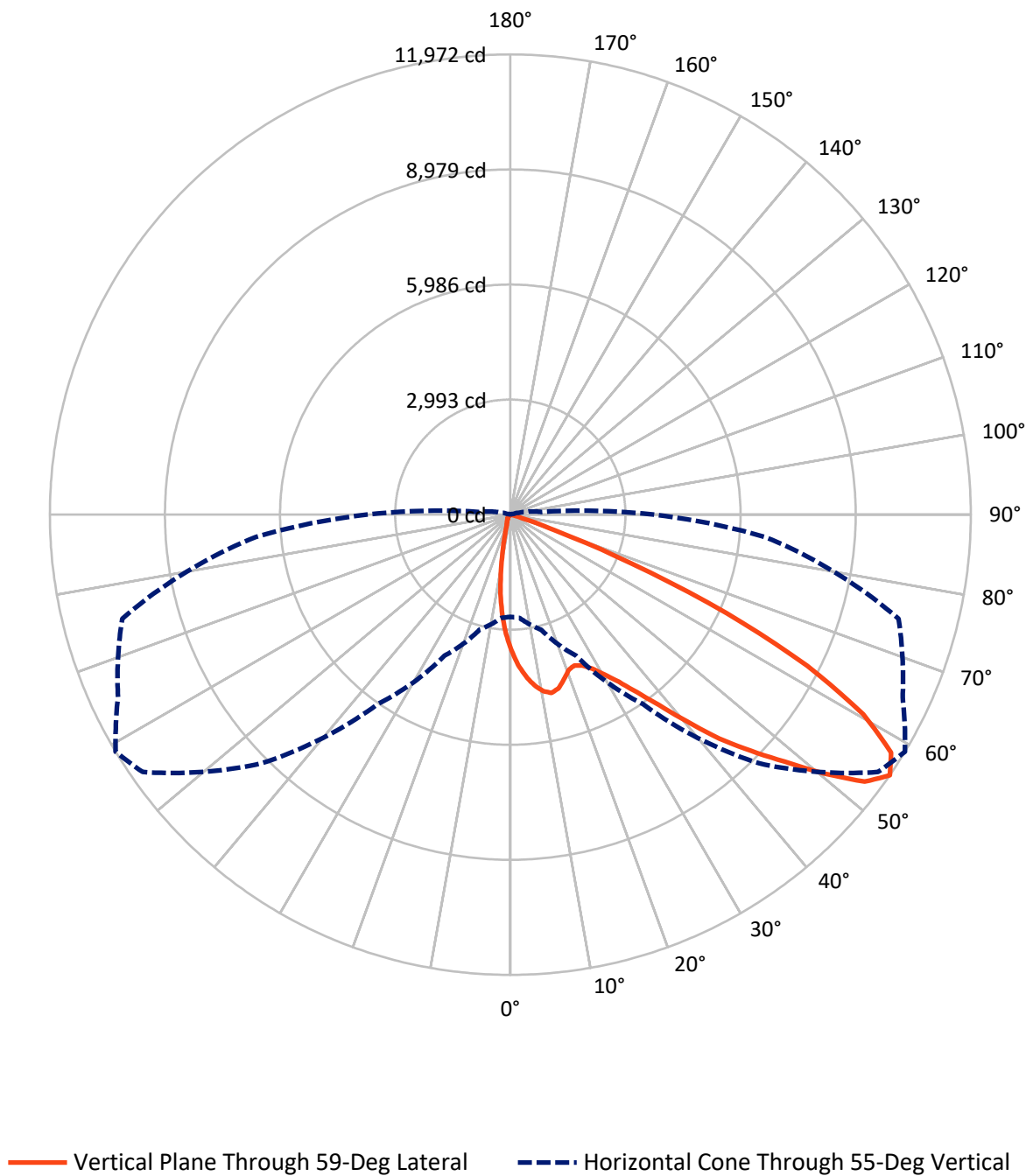


Based on 20 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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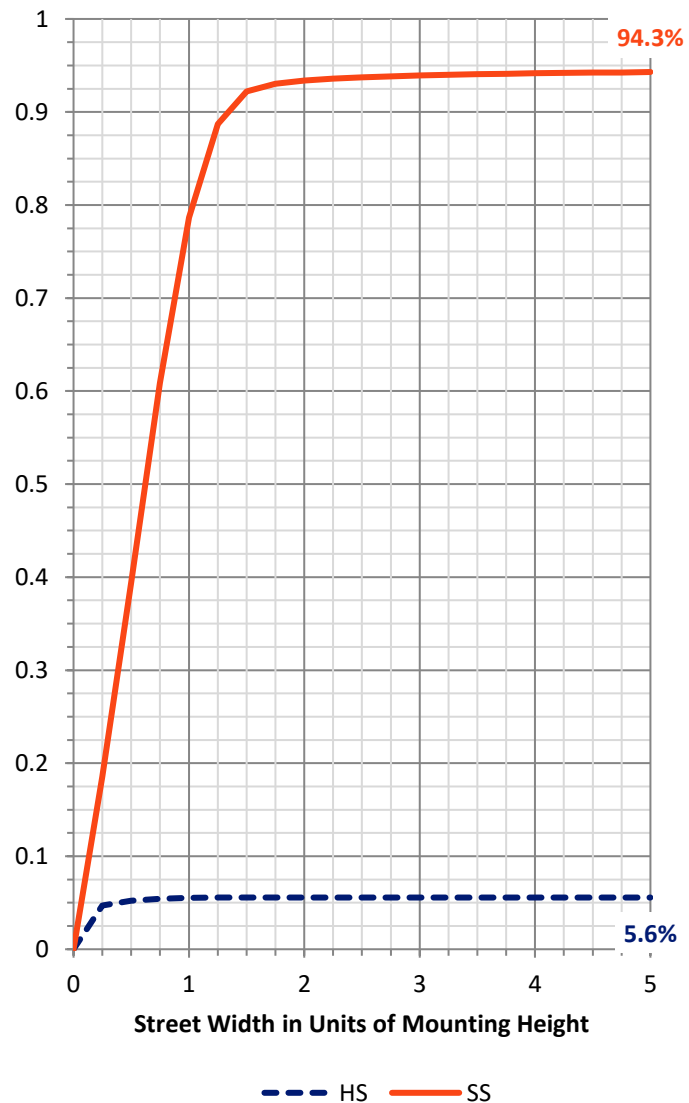
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	699.6	0.0	699.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	11825.9	0.0	11825.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	12525.5	0.0	12525.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	2.4
10°-20°	707.1	5.6
20°-30°	1203.2	9.6
30°-40°	2069.3	16.5
40°-50°	3194.7	25.5
50°-60°	3211.7	25.6
60°-70°	1647.0	13.1
70°-80°	178.5	1.4
80°-90°	18.7	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°	12525.5	100.0
0°-180°	12525.5	100.0

Coefficient of Utilization



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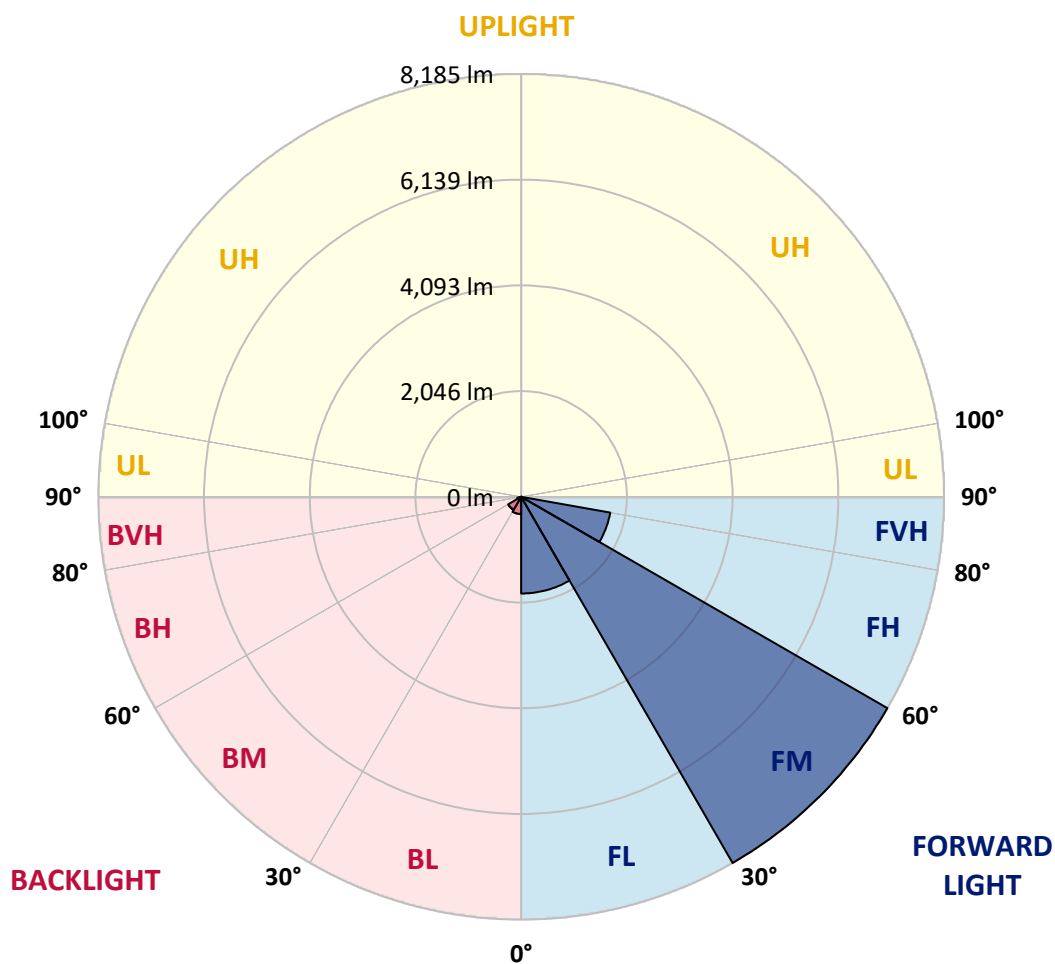
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1871.7	14.9			
FM	(30°-60°)	8185.3	65.3			
FH	(60°-80°)	1750.5	14.0			G1/1800
FVH	(80°-90°)	18.3	0.1			G1/100
BL	(0°-30°)	333.9	2.7	B1/500		
BM	(30°-60°)	290.4	2.3	B1/1000		
BH	(60°-80°)	75.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9
2.5°	4171.9	4127.6	4114.2	4105.4	4064.8	4013.7	3944.3	3911.7	3845.2	3738.0	3606.4
5°	4554.0	4545.9	4516.3	4500.1	4456.4	4384.0	4273.2	4219.9	4114.2	3933.9	3698.1
7.5°	4387.0	4438.0	4478.6	4546.8	4632.4	4629.5	4536.3	4480.9	4362.6	4124.6	3800.1
10°	3741.7	3783.1	3849.6	4004.2	4319.0	4597.0	4706.4	4666.5	4571.9	4299.8	3898.4
12.5°	3615.3	3610.9	3622.7	3667.9	3832.6	4228.9	4677.5	4758.1	4738.9	4460.2	3991.6
15°	3682.6	3677.4	3675.9	3691.5	3731.4	3898.4	4460.9	4692.2	4840.8	4608.8	4070.7
17.5°	3871.0	3848.8	3837.0	3824.5	3812.7	3854.1	4200.8	4508.2	4856.3	4738.9	4136.4
20°	4194.1	4157.1	4113.5	4042.6	3976.1	3955.3	4091.3	4319.0	4801.0	4837.9	4179.2
22.5°	4600.0	4552.7	4477.2	4347.9	4212.6	4134.3	4145.3	4259.2	4718.2	4945.8	4199.3
25°	5056.0	4995.4	4894.9	4715.2	4516.3	4377.4	4305.0	4344.9	4680.4	5072.3	4222.3
27.5°	5544.6	5477.2	5345.7	5101.1	4875.5	4687.9	4540.0	4534.8	4744.8	5237.8	4259.2
30°	6028.7	6018.4	5846.9	5588.2	5289.6	5061.1	4848.3	4820.9	4924.5	5467.0	4332.3
32.5°	6674.7	6597.2	6387.2	6121.1	5776.6	5502.4	5250.4	5186.9	5200.0	5733.8	4445.4
35°	7489.4	7404.4	7108.6	6741.3	6356.1	6032.4	5753.8	5667.3	5634.7	6170.6	4636.1
37.5°	8015.7	8014.1	7828.7	7454.6	7041.4	6684.4	6381.3	6280.0	6214.2	6698.4	4931.8
40°	8029.7	8064.4	8088.8	8085.0	7790.9	7462.0	7193.0	7068.0	6915.0	7403.6	5314.0
42.5°	7598.8	7688.1	7903.3	8268.4	8442.9	8312.0	8085.0	7962.4	7734.8	8158.3	5779.6
45°	7016.3	7078.4	7454.6	8127.2	8796.3	9154.8	8981.7	8762.3	8462.1	8945.5	6197.3
47.5°	6755.4	6766.4	7009.6	7748.0	8822.8	9845.2	9950.0	9593.1	9122.9	9579.8	6524.0
50°	5975.5	5995.5	6331.0	7090.9	8510.9	10171.1	10922.8	10584.3	9843.6	10068.4	6643.0
52.5°	4503.7	4531.8	4957.6	6011.0	7653.4	10032.0	11619.1	11537.1	10633.1	10307.1	6649.6
55°	2657.3	2694.4	3100.9	4046.3	6019.8	9148.1	11670.8	11972.4	11256.2	10448.3	6639.2
57.5°	1241.0	1267.0	1499.8	2084.4	3744.0	7229.9	10891.8	11673.8	11599.9	10523.0	6712.5
60°	659.4	666.7	723.0	902.5	1692.0	4584.4	9371.2	10541.5	11286.5	10626.4	6801.9
62.5°	504.1	506.3	503.3	524.8	711.1	2035.0	7083.5	8666.1	10024.7	10548.8	6702.8
65°	436.8	440.6	419.9	414.6	456.0	725.9	4208.1	6177.3	7877.4	9501.4	6028.0
67.5°	391.8	393.3	368.1	346.7	354.1	392.5	1660.2	3381.8	5214.2	6964.5	4369.3
70°	360.7	359.3	331.9	297.8	288.2	268.3	527.7	1239.6	2491.7	3531.8	2032.0
72.5°	319.4	320.0	306.8	262.4	239.5	187.7	244.6	361.4	743.6	962.3	476.1
75°	283.1	279.3	263.1	235.0	197.3	123.5	121.3	161.1	229.1	227.7	102.7
77.5°	204.8	201.0	206.3	193.0	151.6	79.9	60.6	77.6	93.1	90.1	28.9
80°	150.0	147.8	133.1	160.4	133.9	54.7	37.7	41.4	48.1	40.7	8.8
82.5°	102.7	102.0	93.9	88.7	76.2	33.3	23.6	25.9	31.0	23.0	4.5
85°	16.3	18.5	68.0	54.0	45.2	14.7	16.3	17.7	20.6	12.6	1.5
87.5°	0.0	0.0	31.8	28.1	8.8	5.9	9.7	10.4	10.4	6.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9	3525.9
2.5°	3539.2	3465.2	3328.5	3187.3	3056.5	2900.5	2793.3	2712.8	2619.6	2594.5	2649.2
5°	3563.6	3423.8	3129.7	2809.6	2508.8	2175.4	1920.3	1718.5	1535.9	1473.9	1530.0
7.5°	3602.1	3394.3	2914.6	2387.6	1864.2	1343.8	987.6	753.3	603.8	559.5	583.2
10°	3640.4	3351.4	2665.5	1887.9	1172.4	654.1	425.8	340.1	308.2	301.5	305.3
12.5°	3672.2	3293.7	2361.6	1342.4	626.8	350.4	278.7	264.6	260.1	260.1	261.6
15°	3691.5	3206.5	2001.7	853.8	360.7	264.6	243.2	238.7	238.7	239.5	241.0
17.5°	3689.2	3095.7	1607.7	516.7	269.8	234.4	221.8	218.1	217.3	218.8	219.5
20°	3662.0	2950.8	1212.2	340.8	235.0	213.6	201.0	194.4	193.7	195.1	196.6
22.5°	3610.2	2771.9	867.1	262.4	212.2	193.7	178.1	172.2	172.2	173.7	175.2
25°	3547.3	2553.2	592.8	222.5	191.4	172.2	157.5	152.3	153.7	157.5	158.2
27.5°	3469.0	2307.0	402.8	190.6	166.3	150.8	139.8	136.0	139.8	144.9	146.4
30°	3401.7	2050.5	287.6	164.9	141.2	130.1	123.5	123.5	128.6	138.2	140.4
32.5°	3350.0	1802.1	221.8	145.7	122.7	113.1	109.4	113.1	121.3	130.8	133.1
35°	3343.4	1597.4	187.7	130.1	109.4	99.8	98.4	105.0	113.1	120.5	122.0
37.5°	3394.3	1408.2	169.3	117.6	97.6	88.7	87.2	95.4	103.5	112.3	114.6
40°	3491.2	1259.5	155.9	105.7	88.0	78.3	75.4	81.3	92.5	104.3	107.2
42.5°	3616.8	1136.9	141.2	93.9	78.3	65.0	61.4	68.0	79.9	92.5	96.0
45°	3736.5	1031.2	124.9	80.6	65.8	50.3	48.8	57.7	63.6	76.2	79.1
47.5°	3802.3	938.0	110.9	65.8	51.1	40.7	40.7	42.8	48.8	63.6	66.5
50°	3780.2	863.3	96.0	48.8	35.5	31.0	31.0	30.3	39.3	51.1	53.2
52.5°	3735.8	820.5	82.8	37.7	24.4	22.2	20.0	22.2	27.4	32.6	33.3
55°	3729.1	813.1	69.5	30.3	17.1	14.7	11.0	11.0	11.0	10.4	8.8
57.5°	3780.9	824.9	58.4	24.4	12.6	9.7	5.9	0.0	0.0	0.0	0.0
60°	3834.1	837.5	50.3	17.1	8.8	5.1	0.8	0.0	0.0	0.0	0.0
62.5°	3745.4	809.4	42.2	10.4	6.7	2.1	0.0	0.0	0.0	0.0	0.0
65°	3290.2	688.9	33.3	7.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2340.3	461.3	22.2	4.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1068.1	193.0	14.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	228.4	59.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	46.6	43.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	14.7	68.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.8	49.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.5	7.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)