

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: P200096

Luminaire Tested: **GAP-AF-02-LED-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-AFL
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13036.5 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 113
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



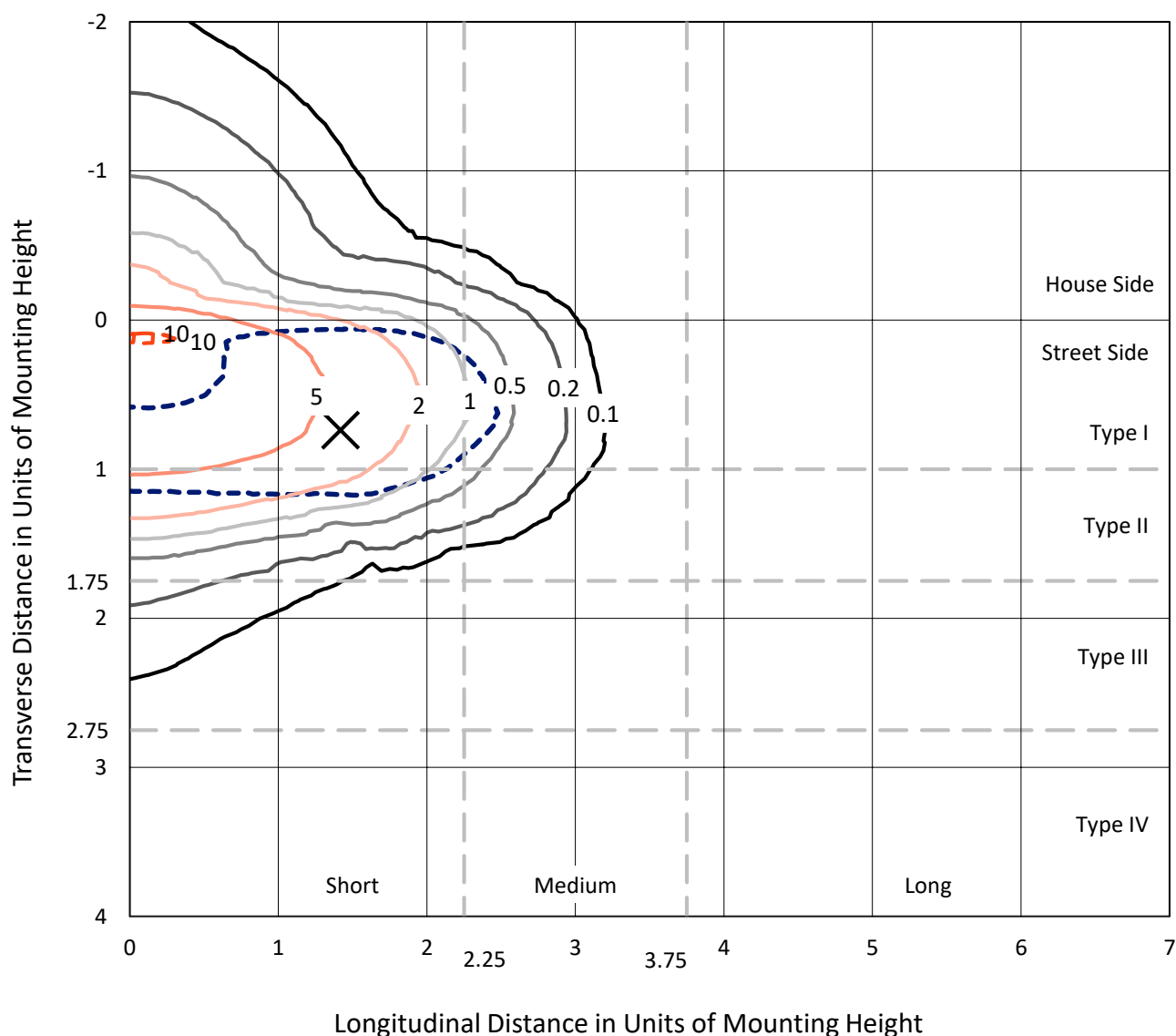
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

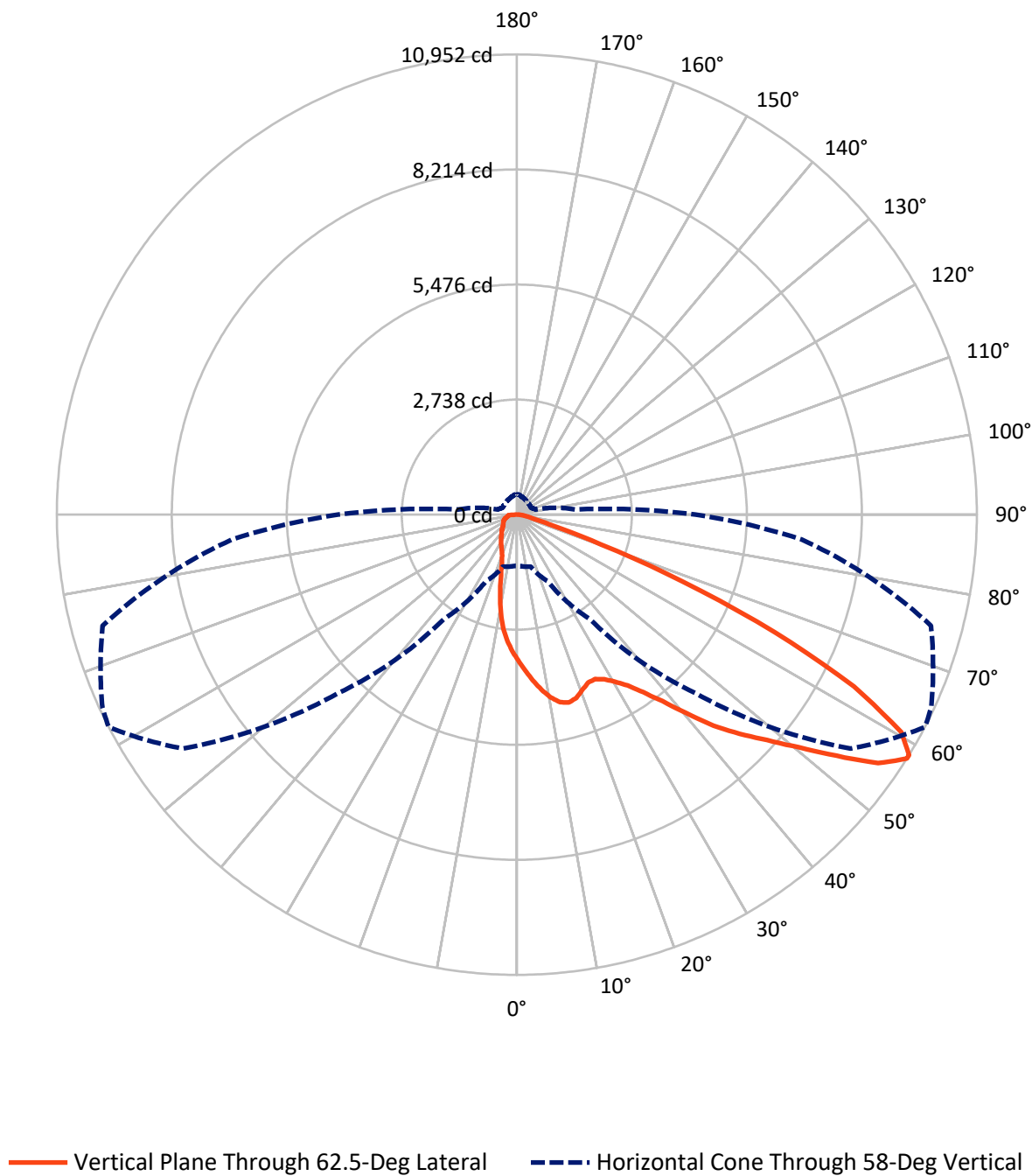


Based on 20 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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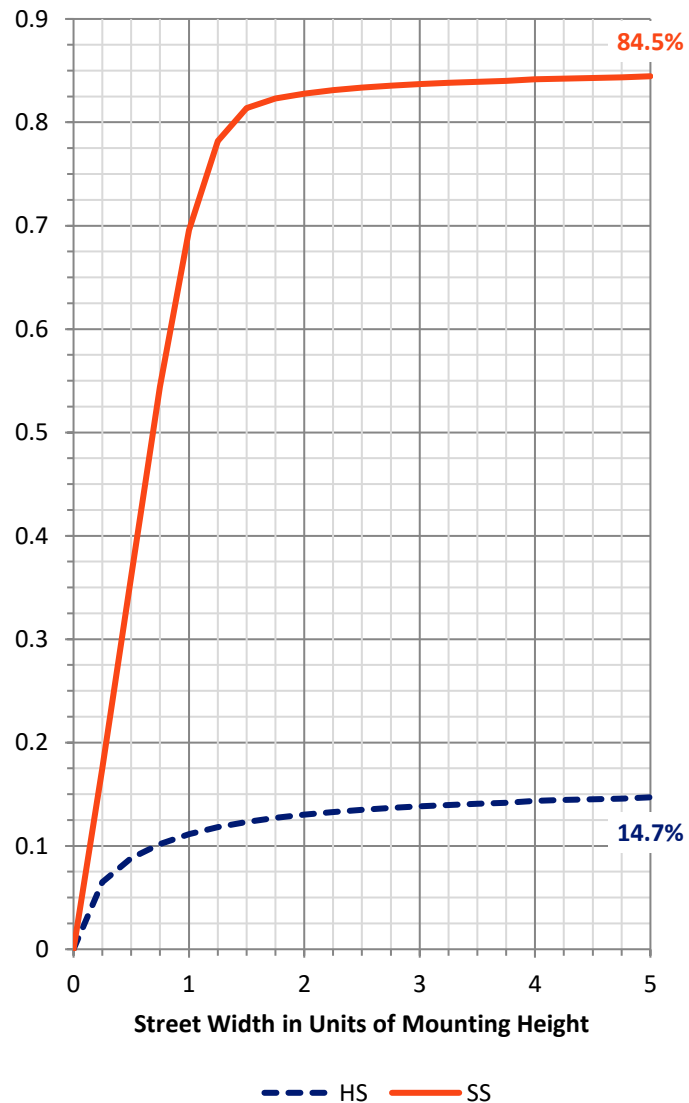
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1988.1	0.0	1988.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11048.4	0.0	11048.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	13036.5	0.0	13036.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.7	2.4
10°-20°	791.7	6.1
20°-30°	1279.7	9.8
30°-40°	2031.6	15.6
40°-50°	2972.6	22.8
50°-60°	3109.1	23.8
60°-70°	1836.9	14.1
70°-80°	517.5	4.0
80°-90°	187.8	1.4
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°	13036.5	100.0
0°-180°	13036.5	100.0

Coefficient of Utilization



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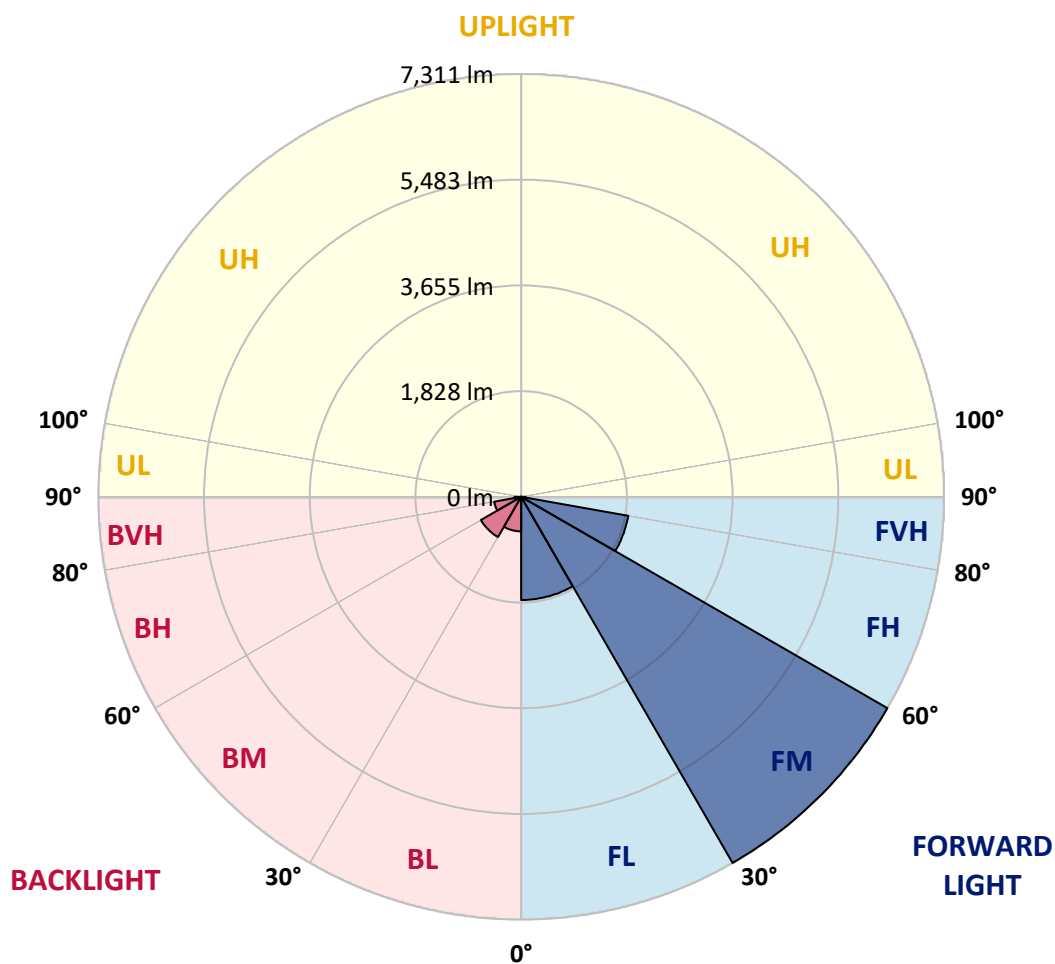
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1783.6	13.7			
FM	(30°-60°)	7310.8	56.1			
FH	(60°-80°)	1879.9	14.4			G2/5000
FVH	(80°-90°)	74.1	0.6			G1/100
BL	(0°-30°)	597.5	4.6	B2/1000		
BM	(30°-60°)	802.5	6.2	B1/1000		
BH	(60°-80°)	474.4	3.6	B1/500		G1/500
BVH	(80°-90°)	113.7	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9
2.5°	3957.1	3925.2	3904.9	3887.1	3863.8	3814.0	3747.1	3704.7	3683.2	3610.2	3523.7
5°	4345.0	4316.8	4295.9	4271.9	4230.2	4152.3	4044.2	3958.3	3916.0	3769.8	3596.7
7.5°	4254.1	4265.8	4302.0	4365.2	4419.2	4408.8	4312.5	4203.2	4147.3	3944.2	3681.4
10°	3706.6	3726.8	3789.4	3937.4	4176.8	4422.3	4497.3	4421.7	4365.2	4116.7	3768.6
12.5°	3596.7	3596.1	3601.0	3640.3	3782.7	4128.3	4503.4	4579.5	4545.8	4281.2	3857.6
15°	3641.5	3642.7	3639.0	3655.6	3699.8	3836.7	4315.5	4640.3	4664.2	4447.0	3949.7
17.5°	3759.3	3756.3	3742.2	3742.2	3758.1	3811.5	4094.6	4583.8	4694.3	4593.7	4030.7
20°	3957.1	3943.0	3905.5	3871.2	3854.0	3882.8	4003.7	4453.7	4642.2	4721.9	4097.6
22.5°	4196.5	4185.4	4124.6	4051.0	3991.5	3990.8	4050.4	4340.1	4551.9	4842.9	4154.1
25°	4505.9	4488.1	4397.8	4279.9	4175.6	4135.7	4152.3	4334.5	4502.8	4974.2	4204.4
27.5°	4869.2	4836.7	4729.9	4559.9	4406.4	4326.0	4302.0	4434.6	4547.6	5137.0	4274.4
30°	5310.0	5272.6	5135.7	4914.1	4697.4	4565.4	4514.5	4612.1	4696.2	5335.2	4386.7
32.5°	5811.6	5757.6	5599.1	5354.8	5070.1	4868.6	4785.8	4846.5	4913.4	5574.0	4527.4
35°	6504.6	6440.2	6211.2	5874.2	5552.5	5275.7	5143.1	5187.3	5252.3	5930.0	4730.5
37.5°	6977.3	6948.5	6796.2	6479.5	6129.5	5811.0	5605.9	5631.7	5668.6	6375.1	4990.8
40°	6973.0	6984.7	6987.8	6990.8	6752.6	6447.6	6227.2	6200.1	6192.7	6863.8	5286.7
42.5°	6623.7	6671.6	6826.4	7140.0	7284.8	7144.9	6943.0	6865.0	6826.4	7439.6	5600.3
45°	6089.0	6114.8	6404.6	7017.2	7557.5	7835.5	7682.7	7437.2	7367.1	7968.7	5860.7
47.5°	5813.4	5841.7	6024.0	6691.8	7554.4	8393.5	8481.9	8014.2	7888.9	8429.1	6085.3
50°	5157.2	5216.1	5445.7	6125.8	7278.7	8650.2	9317.4	8701.7	8442.6	8877.3	6310.7
52.5°	3952.2	4043.0	4300.2	5195.3	6579.5	8523.0	9985.9	9535.3	9169.4	9341.4	6504.0
55°	2492.9	2560.4	2776.6	3669.1	5263.4	7861.9	10239.4	10437.2	10111.8	9780.8	6671.6
57.5°	1355.4	1385.5	1466.5	2025.7	3423.6	6400.3	9869.9	10950.3	10815.2	10154.1	6798.0
58°	1213.0	1233.3	1283.6	1755.7	3036.2	6000.6	9706.0	10952.1	10884.6	10208.7	6807.8
60°	900.0	889.6	844.7	1001.9	1690.0	4145.5	8715.2	10513.9	10712.1	10275.6	6760.0
62.5°	790.6	765.5	674.0	663.6	821.9	1909.7	6668.5	9006.2	9474.6	9893.9	6469.0
65°	742.8	715.8	597.9	559.9	593.0	807.8	3928.2	6754.4	7341.9	8736.1	5725.0
67.5°	707.2	672.2	549.4	497.3	499.7	534.1	1574.6	4254.1	4915.3	6632.9	4453.1
70°	672.8	634.7	508.3	448.2	434.0	422.4	626.1	2129.6	2729.3	4189.7	2839.2
72.5°	636.0	598.5	472.1	409.5	381.9	343.2	408.9	871.0	1216.7	1982.2	1287.9
75°	582.6	548.8	435.9	375.1	335.8	284.2	308.8	454.9	545.7	789.4	620.6
77.5°	516.9	489.3	395.4	346.9	297.8	230.8	237.5	315.6	350.0	451.8	369.0
80°	371.4	381.3	351.8	311.9	265.1	187.2	182.3	230.2	248.6	290.3	240.0
82.5°	260.9	266.4	290.9	254.7	219.1	147.3	134.4	162.0	173.1	190.9	129.5
85°	179.8	173.7	199.5	177.4	158.4	98.2	92.1	109.9	116.6	118.5	66.9
87.5°	108.0	108.0	115.4	95.1	85.3	50.9	49.7	62.6	66.9	63.8	36.8
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°	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9	3462.9
2.5°	3472.1	3428.5	3335.8	3261.6	3167.6	3070.0	3015.4	2957.0	2917.1	2888.3	2934.3
5°	3498.5	3409.5	3217.9	3036.2	2835.5	2626.7	2468.4	2321.1	2218.6	2154.7	2214.9
7.5°	3540.2	3403.4	3098.2	2787.6	2427.3	2079.9	1769.2	1574.6	1461.0	1405.1	1440.1
10°	3588.1	3393.5	2957.7	2450.6	1934.9	1497.3	1265.2	1186.6	1160.8	1150.4	1155.3
12.5°	3628.0	3372.7	2785.2	2042.9	1453.0	1182.3	1115.4	1113.6	1119.1	1120.3	1122.2
15°	3656.2	3342.0	2529.1	1618.2	1162.1	1077.4	1073.7	1084.7	1095.2	1099.5	1101.9
17.5°	3675.3	3278.8	2240.1	1279.3	1041.2	1026.4	1035.0	1049.1	1060.2	1063.3	1065.7
20°	3673.4	3186.0	1895.6	1066.9	975.5	975.5	990.2	1001.3	1001.9	998.2	1000.0
22.5°	3654.4	3058.9	1561.7	954.0	917.2	927.6	942.3	931.9	888.8	860.6	862.4
25°	3622.5	2907.3	1275.6	882.1	863.1	881.5	877.2	798.6	737.2	709.6	709.6
27.5°	3594.2	2728.1	1055.9	819.5	809.1	831.8	755.7	684.5	658.7	645.8	641.5
30°	3574.0	2534.7	909.2	759.3	758.1	741.5	655.6	636.0	631.7	621.2	617.6
32.5°	3578.9	2338.9	815.2	706.6	710.8	634.7	607.7	612.0	608.3	597.3	592.4
35°	3619.4	2152.9	753.8	658.7	645.8	573.4	579.5	587.5	586.3	570.9	566.0
37.5°	3691.8	1976.6	713.3	618.8	563.5	542.7	552.5	564.8	561.7	551.3	547.6
40°	3767.9	1810.9	680.2	587.5	515.1	521.8	530.4	537.2	540.2	543.3	540.8
42.5°	3842.2	1637.8	639.7	555.6	494.8	502.2	505.8	512.6	529.2	540.8	540.2
45°	3886.5	1475.1	597.9	510.1	478.8	483.1	480.7	494.2	514.4	533.5	534.1
47.5°	3935.6	1348.7	564.8	468.4	463.5	466.6	459.2	472.7	491.1	514.4	516.9
50°	3995.1	1273.2	538.4	435.3	442.6	442.6	440.8	453.1	478.8	505.8	510.8
52.5°	4062.6	1258.4	516.3	411.3	421.8	421.1	423.0	441.4	469.6	496.0	500.3
55°	4144.9	1298.3	492.3	393.5	401.5	404.0	410.1	431.0	454.9	485.0	486.8
57.5°	4240.6	1379.3	473.3	379.4	383.1	391.1	400.9	419.9	445.7	478.8	480.7
58°	4256.6	1396.5	470.3	378.2	379.4	388.6	399.7	418.1	443.9	480.1	481.9
60°	4257.2	1453.6	463.5	372.7	365.3	380.6	392.9	411.3	440.8	484.4	488.7
62.5°	4106.2	1453.0	458.6	364.7	350.6	369.6	383.7	405.2	437.7	494.8	503.4
65°	3615.7	1320.4	435.3	352.4	338.9	359.8	375.7	400.9	446.3	540.2	545.7
67.5°	2828.2	1082.3	391.7	335.2	323.6	350.0	370.8	400.3	455.5	550.7	554.3
70°	1869.9	809.7	343.8	315.6	307.6	338.3	373.3	421.1	445.1	528.6	518.7
72.5°	970.6	568.5	305.1	290.9	289.1	327.9	408.9	418.7	434.7	497.3	485.0
75°	509.5	394.8	271.3	263.9	267.0	325.4	482.5	407.6	421.1	475.8	499.1
77.5°	311.9	318.6	242.4	239.4	245.5	318.0	481.9	393.5	401.5	437.7	463.5
80°	208.7	258.4	220.3	221.0	225.3	290.9	432.8	371.4	377.6	413.8	440.2
82.5°	132.0	152.8	200.1	210.5	205.0	240.0	367.8	338.3	346.9	473.3	500.3
85°	66.9	95.7	173.7	202.5	184.7	168.2	298.4	296.6	300.8	341.4	356.7
87.5°	30.7	52.8	135.6	176.8	139.3	105.0	216.7	219.7	236.9	242.4	242.4
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)