

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: P192691

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192691
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: GAN-AF-03-LED-U-AFL-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11880.8 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 96
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



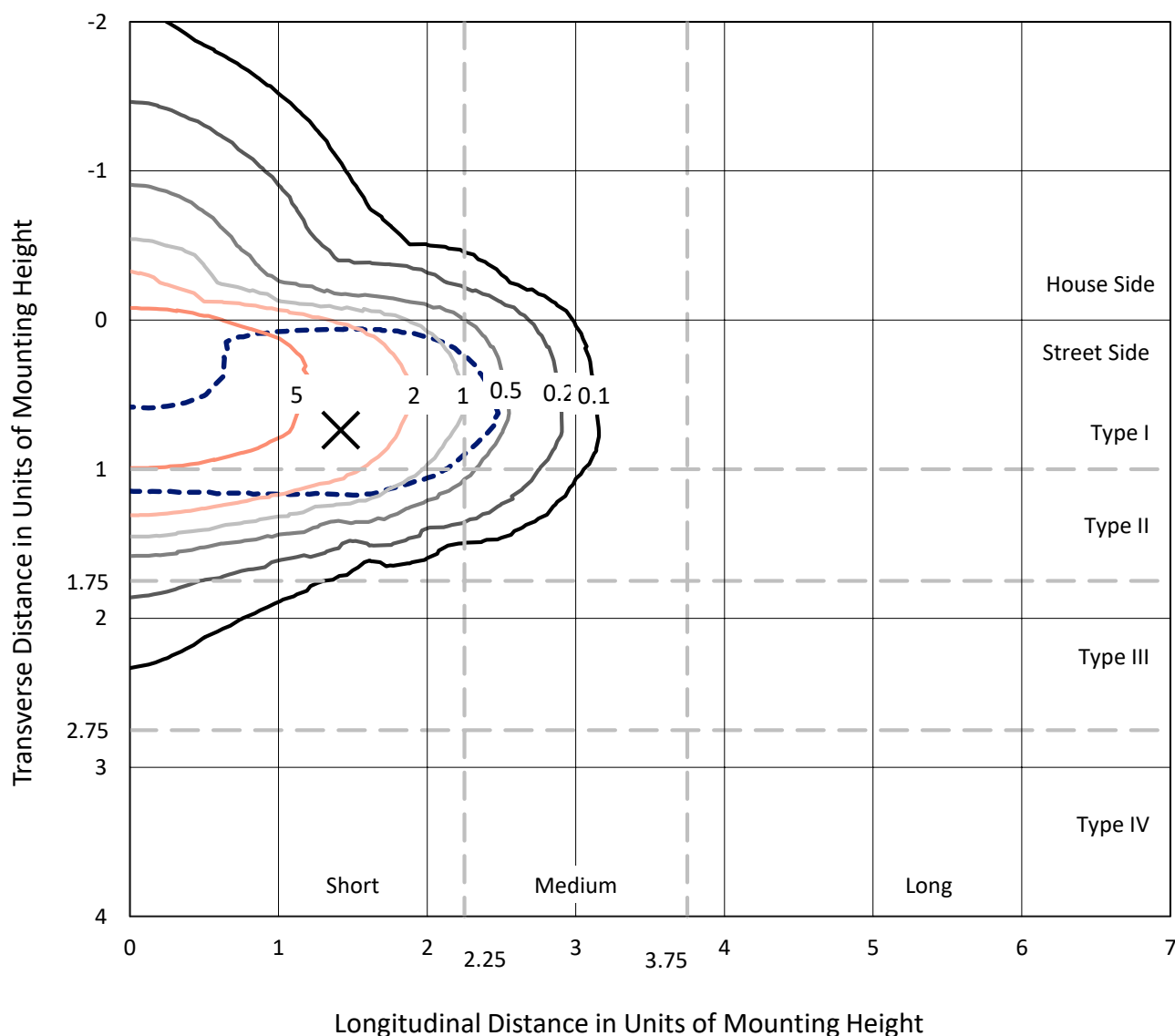
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

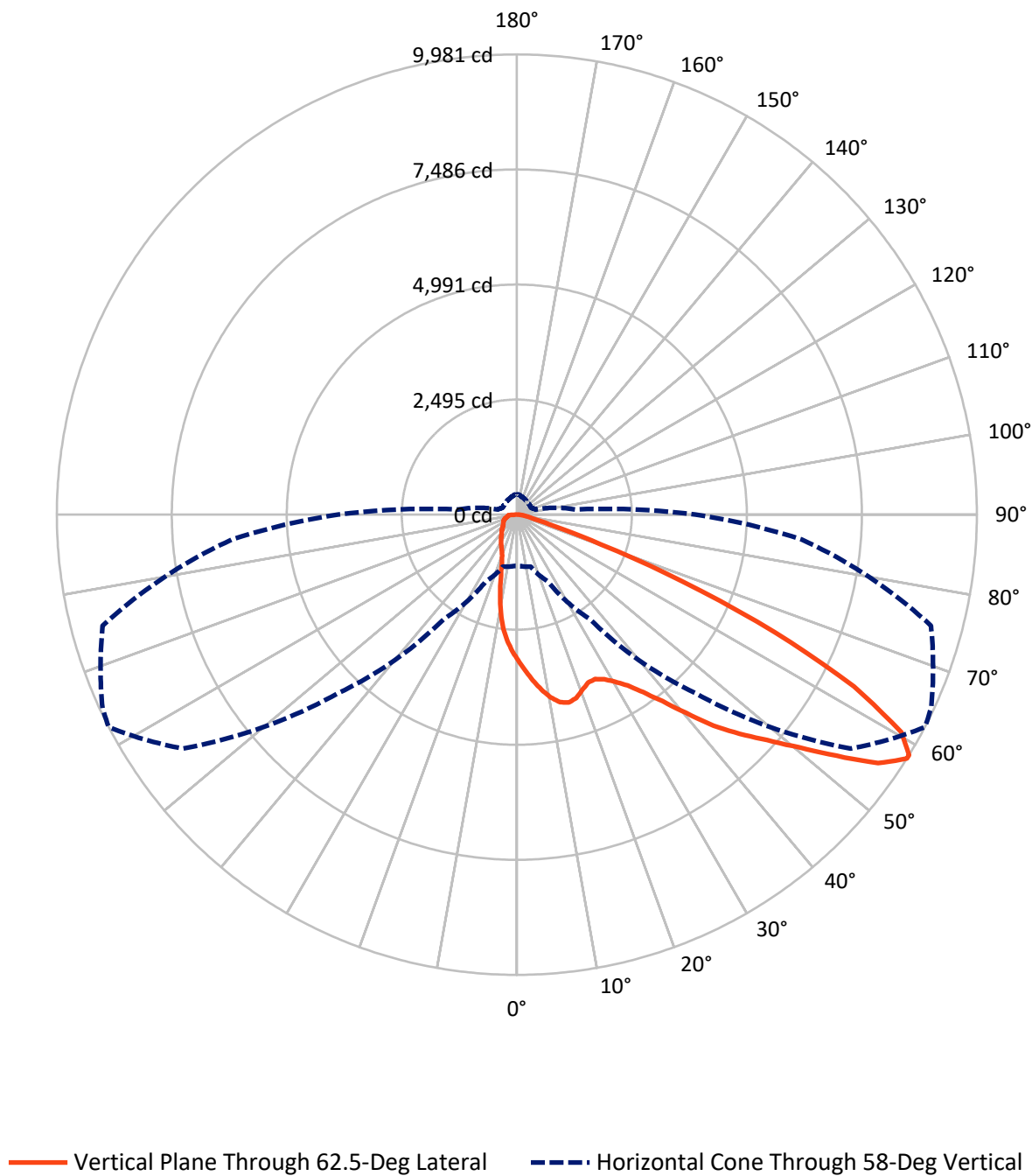


Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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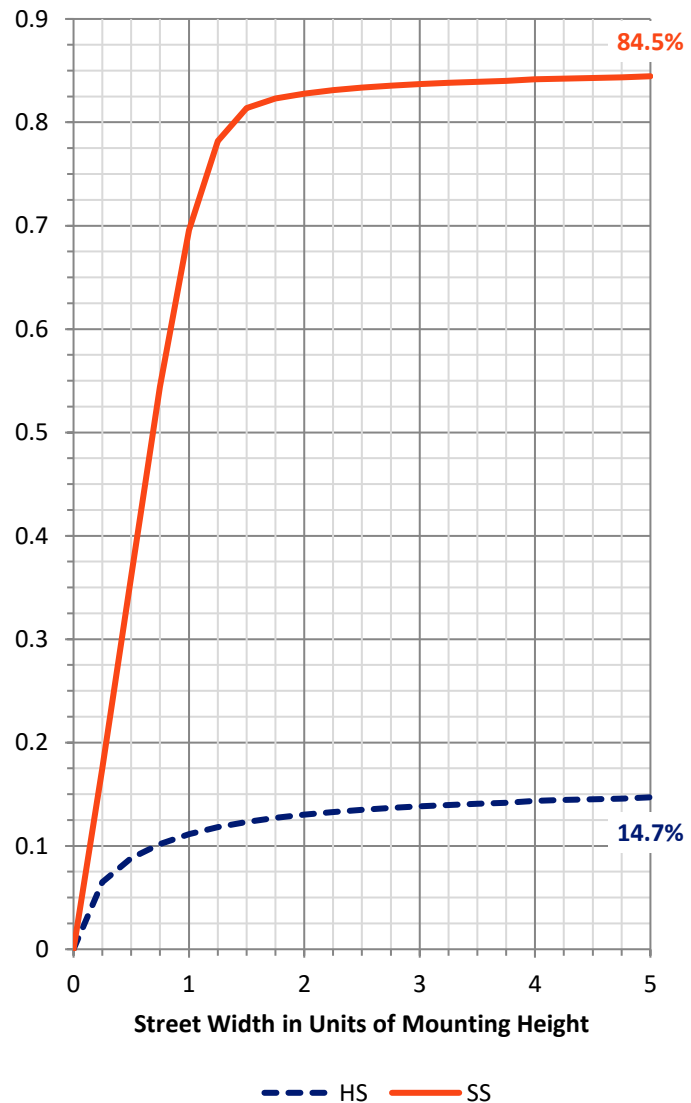
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1811.9	0.0	1811.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10069.0	0.0	10069.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	11880.8	0.0	11880.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.3	2.4
10°-20°	721.5	6.1
20°-30°	1166.3	9.8
30°-40°	1851.5	15.6
40°-50°	2709.1	22.8
50°-60°	2833.5	23.8
60°-70°	1674.0	14.1
70°-80°	471.6	4.0
80°-90°	171.2	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°	11880.8	100.0
0°-180°	11880.8	100.0

Coefficient of Utilization



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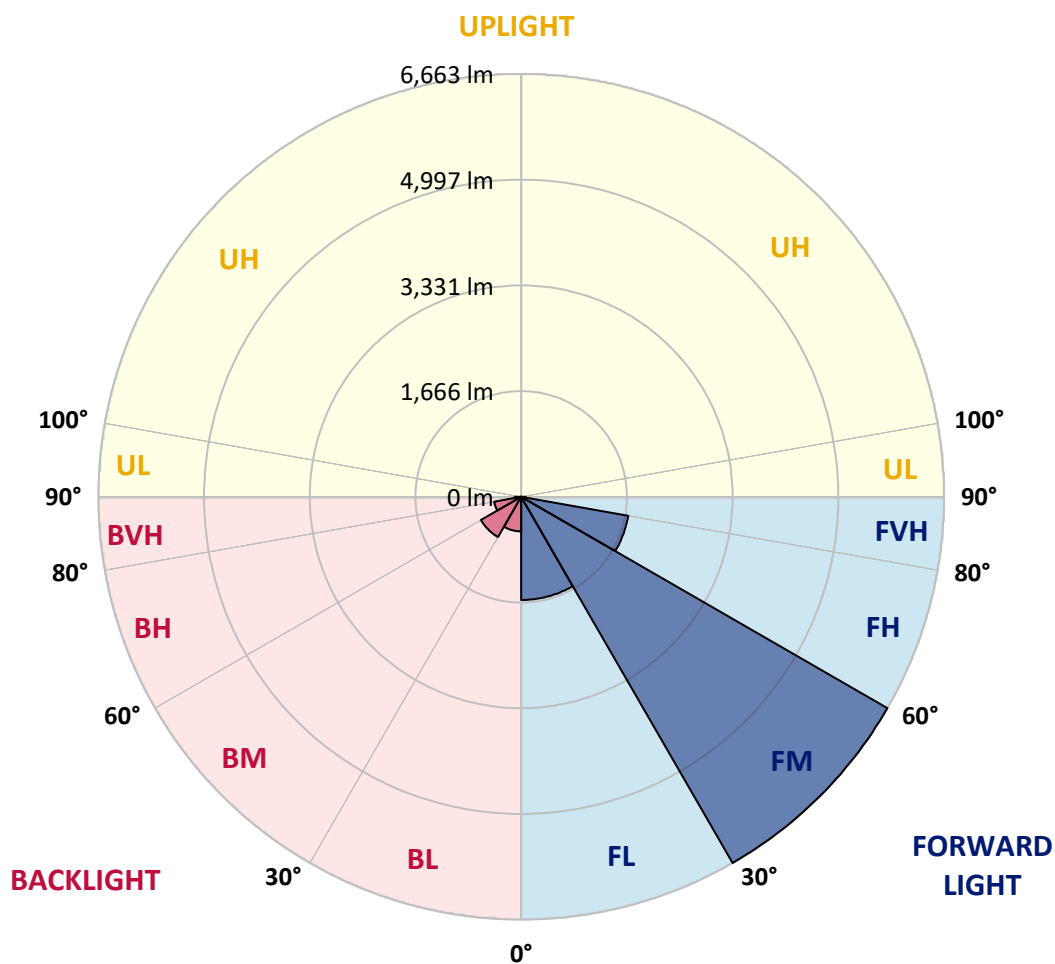
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1625.4	13.7			
FM	(30°-60°)	6662.7	56.1			
FH	(60°-80°)	1713.3	14.4			G1/1800
FVH	(80°-90°)	67.5	0.6			G1/100
BL	(0°-30°)	544.6	4.6	B2/1000		
BM	(30°-60°)	731.3	6.2	B1/1000		
BH	(60°-80°)	432.3	3.6	B1/500		G1/500
BVH	(80°-90°)	103.7	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°	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0
2.5°	3606.3	3577.1	3558.7	3542.5	3521.2	3475.9	3414.9	3376.3	3356.8	3290.2	3211.2
5°	3959.9	3934.1	3915.1	3893.2	3855.2	3784.2	3685.8	3607.4	3568.7	3435.6	3277.9
7.5°	3877.1	3887.7	3920.7	3978.3	4027.6	4018.0	3930.2	3830.6	3779.8	3594.5	3355.1
10°	3378.0	3396.5	3453.5	3588.4	3806.6	4030.3	4098.7	4029.8	3978.3	3751.8	3434.6
12.5°	3277.9	3277.3	3281.8	3317.5	3447.3	3762.4	4104.3	4173.6	4142.8	3901.6	3515.6
15°	3318.7	3319.9	3316.4	3331.6	3371.8	3496.7	3933.0	4229.0	4250.7	4052.8	3599.5
17.5°	3426.2	3423.3	3410.4	3410.4	3425.1	3473.7	3731.6	4177.5	4278.1	4186.4	3673.4
20°	3606.3	3593.4	3559.2	3528.0	3512.2	3538.6	3648.8	4058.9	4230.6	4303.4	3734.4
22.5°	3824.5	3814.3	3758.9	3691.9	3637.6	3637.0	3691.4	3955.4	4148.3	4413.5	3785.9
25°	4106.4	4090.2	4007.9	3900.5	3805.4	3769.1	3784.2	3950.4	4103.7	4533.2	3831.7
27.5°	4437.7	4407.9	4310.6	4155.6	4015.9	3942.5	3920.7	4041.5	4144.4	4681.5	3895.5
30°	4839.3	4805.2	4680.4	4478.4	4281.0	4160.7	4114.2	4203.2	4279.9	4862.2	3997.9
32.5°	5296.4	5247.1	5102.9	4880.2	4620.6	4437.0	4361.5	4417.0	4477.9	5079.9	4125.9
35°	5928.0	5869.3	5660.6	5353.4	5060.4	4808.0	4687.1	4727.4	4786.7	5404.4	4311.2
37.5°	6358.8	6332.5	6193.8	5905.1	5586.2	5295.8	5109.0	5132.5	5166.0	5810.0	4548.4
40°	6354.8	6365.6	6368.2	6371.1	6154.0	5876.0	5675.2	5650.6	5643.8	6255.3	4818.0
42.5°	6036.6	6080.2	6221.2	6507.1	6639.1	6511.6	6327.5	6256.4	6221.2	6780.1	5103.9
45°	5549.3	5572.8	5836.8	6395.2	6887.4	7140.9	7001.7	6777.8	6714.1	7262.4	5341.1
47.5°	5298.1	5323.7	5489.9	6098.7	6884.7	7649.5	7730.1	7303.8	7189.6	7681.9	5545.9
50°	4700.0	4753.8	4963.0	5582.8	6633.4	7883.4	8491.4	7930.4	7694.2	8090.3	5751.2
52.5°	3601.8	3684.6	3919.0	4734.8	5996.2	7767.6	9100.8	8690.1	8356.5	8513.3	5927.5
55°	2271.9	2333.4	2530.5	3343.9	4796.8	7165.0	9331.8	9511.9	9215.4	8913.8	6080.2
57.5°	1235.2	1262.7	1336.6	1846.3	3120.1	5833.0	8995.0	9979.6	9856.5	9254.0	6195.4
58°	1105.4	1124.0	1169.8	1600.1	2767.1	5468.8	8845.6	9981.3	9919.7	9303.8	6204.4
60°	820.2	810.7	769.8	913.1	1540.2	3778.0	7942.6	9581.8	9762.6	9364.8	6160.8
62.5°	720.6	697.6	614.2	604.8	749.1	1740.5	6077.4	8207.8	8634.6	9016.8	5895.6
65°	677.0	652.3	544.8	510.2	540.4	736.3	3580.0	6155.7	6691.1	7961.6	5217.4
67.5°	644.5	612.6	500.7	453.2	455.4	486.7	1435.0	3877.1	4479.6	6045.0	4058.3
70°	613.2	578.5	463.3	408.4	395.5	384.9	570.7	1940.8	2487.4	3818.3	2587.5
72.5°	579.6	545.4	430.3	373.1	348.0	312.7	372.6	793.9	1108.9	1806.5	1173.8
75°	530.9	500.2	397.2	341.9	306.0	259.1	281.5	414.5	497.3	719.5	565.6
77.5°	471.0	445.9	360.3	316.1	271.3	210.4	216.6	287.6	318.9	411.8	336.2
80°	338.4	347.5	320.5	284.2	241.7	170.7	166.2	209.8	226.6	264.6	218.7
82.5°	237.7	242.8	265.2	232.1	199.7	134.3	122.5	147.7	157.8	173.9	118.0
85°	163.9	158.3	181.8	161.7	144.3	89.5	83.9	100.2	106.3	107.9	60.9
87.5°	98.5	98.5	105.2	86.8	77.8	46.4	45.4	57.1	60.9	58.2	33.6
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°	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0	3156.0
2.5°	3164.2	3124.6	3040.1	2972.4	2886.8	2797.8	2748.1	2694.9	2658.5	2632.3	2674.2
5°	3188.4	3107.3	2932.6	2767.1	2584.1	2393.9	2249.5	2115.3	2021.9	1963.7	2018.6
7.5°	3226.4	3101.7	2823.6	2540.5	2212.1	1895.4	1612.3	1435.0	1331.6	1280.6	1312.5
10°	3270.0	3092.7	2695.4	2233.4	1763.5	1364.5	1153.0	1081.4	1057.9	1048.5	1052.9
12.5°	3306.4	3073.7	2538.3	1861.9	1324.2	1077.6	1016.5	1014.9	1019.9	1021.0	1022.6
15°	3332.2	3045.7	2305.0	1474.8	1059.0	981.8	978.5	988.6	998.1	1002.0	1004.2
17.5°	3349.5	2988.0	2041.5	1165.9	948.8	935.4	943.2	956.1	966.2	969.0	971.2
20°	3347.8	2903.6	1727.6	972.3	889.0	889.0	902.4	912.5	913.1	909.7	911.3
22.5°	3330.4	2787.8	1423.2	869.3	835.9	845.3	858.8	849.3	810.0	784.4	786.0
25°	3301.4	2649.6	1162.5	803.9	786.5	803.4	799.4	727.8	672.0	646.7	646.7
27.5°	3275.6	2486.2	962.2	746.9	737.4	758.0	688.7	623.8	600.3	588.6	584.6
30°	3257.1	2310.0	828.5	692.0	690.9	675.9	597.5	579.6	575.7	566.2	562.8
32.5°	3261.6	2131.5	743.0	644.0	647.9	578.5	553.8	557.8	554.4	544.3	539.8
35°	3298.5	1962.0	687.0	600.3	588.6	522.6	528.2	535.4	534.3	520.3	515.8
37.5°	3364.6	1801.4	650.1	563.9	513.6	494.5	503.4	514.7	511.9	502.4	499.0
40°	3433.9	1650.4	619.8	535.4	469.4	475.5	483.4	489.5	492.3	495.2	492.9
42.5°	3501.6	1492.6	583.0	506.3	450.9	457.7	461.0	467.2	482.3	492.9	492.3
45°	3541.9	1344.3	544.8	464.9	436.4	440.4	438.0	450.3	468.8	486.2	486.7
47.5°	3586.7	1229.1	514.7	426.8	422.4	425.2	418.5	430.8	447.5	468.8	471.0
50°	3640.9	1160.4	490.7	396.6	403.3	403.3	401.6	412.9	436.4	461.0	465.5
52.5°	3702.5	1146.9	470.5	374.9	384.4	383.8	385.4	402.3	428.0	452.0	455.9
55°	3777.4	1183.3	448.7	358.6	365.9	368.1	373.6	392.8	414.5	442.0	443.7
57.5°	3864.7	1257.1	431.3	345.7	349.1	356.4	365.4	382.6	406.1	436.4	438.0
58°	3879.2	1272.8	428.6	344.6	345.7	354.1	364.2	381.0	404.5	437.5	439.2
60°	3879.8	1324.8	422.4	339.6	332.9	346.9	358.1	374.9	401.6	441.4	445.3
62.5°	3742.2	1324.2	417.9	332.3	319.5	336.8	349.6	369.3	398.9	450.9	458.8
65°	3295.3	1203.4	396.6	321.1	308.7	327.9	342.4	365.4	406.8	492.3	497.3
67.5°	2577.4	986.3	356.9	305.5	294.8	318.9	337.9	364.8	415.0	501.8	505.3
70°	1704.1	737.9	313.2	287.6	280.2	308.2	340.2	383.8	405.6	481.8	472.8
72.5°	884.5	518.1	278.1	265.2	263.6	298.8	372.6	381.6	396.1	453.2	442.0
75°	464.4	359.7	247.3	240.6	243.3	296.5	439.8	371.5	383.8	433.5	454.8
77.5°	284.2	290.4	221.0	218.2	223.8	289.7	439.2	358.6	365.9	398.9	422.4
80°	190.2	235.6	200.8	201.4	205.3	265.2	394.4	338.4	344.0	377.1	401.1
82.5°	120.3	139.3	182.4	191.9	186.9	218.7	335.1	308.2	316.1	431.3	455.9
85°	60.9	87.3	158.3	184.6	168.4	153.3	271.9	270.2	274.1	311.1	325.0
87.5°	28.0	48.1	123.7	161.1	127.0	95.7	197.5	200.3	216.0	221.0	221.0
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)