Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P192680

Luminaire Tested: **GAN-AF-02-LED-U-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Report Generated By E9812814

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Test Information

Test Method:	LM-79-08
Report Number:	P192680
	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-02-LED-U-AFL-7030-1200-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(2) 70 CRI, 3000K, 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:	10577.4 lumens
Efficiency:	N/A
Efficacy:	82.0 lumens/watt
Luminous Opening:	Rectangular (W 0.5' 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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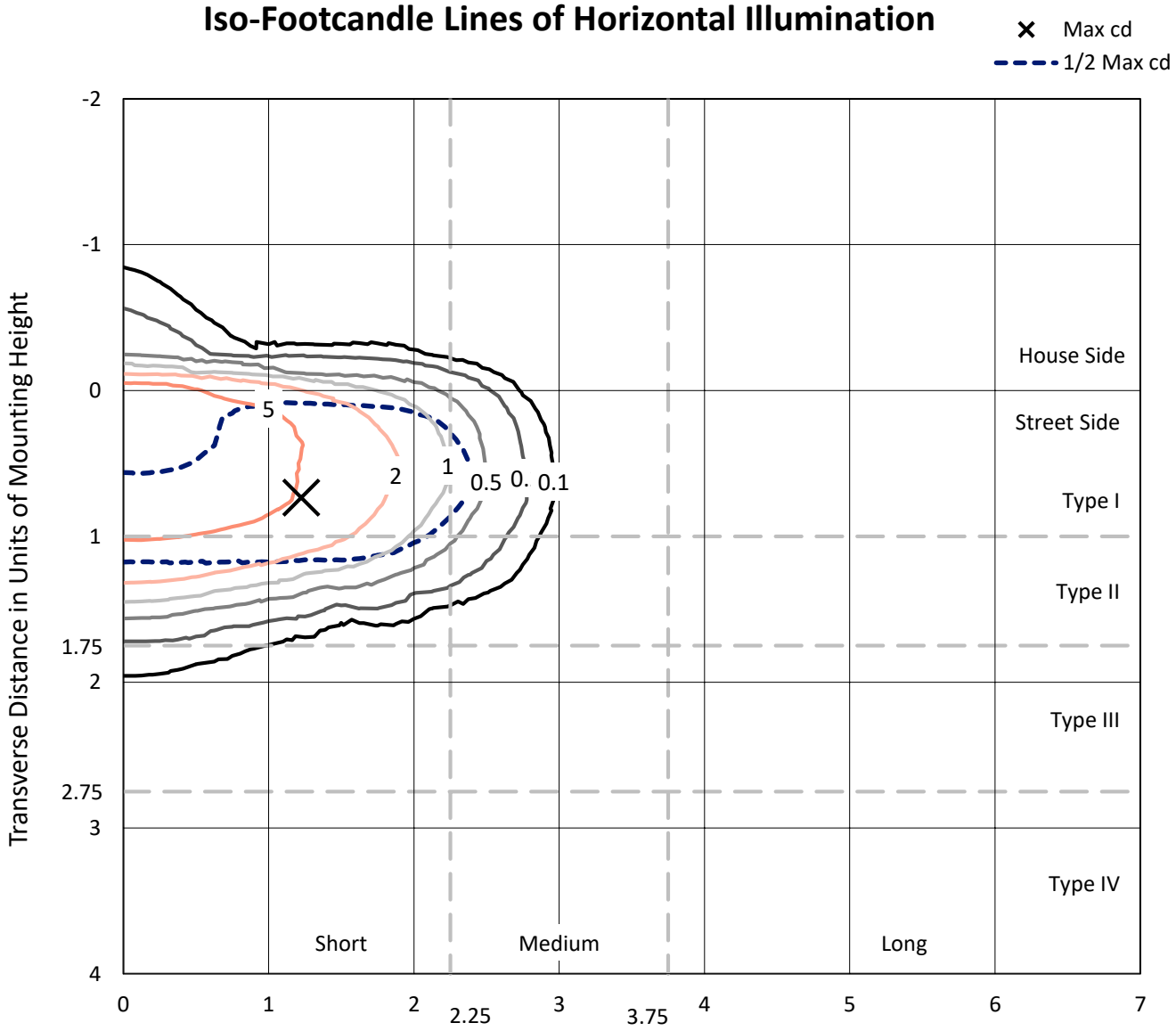
Iso-Footcandle Lines of Horizontal Illumination



Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Short - Full Cutoff

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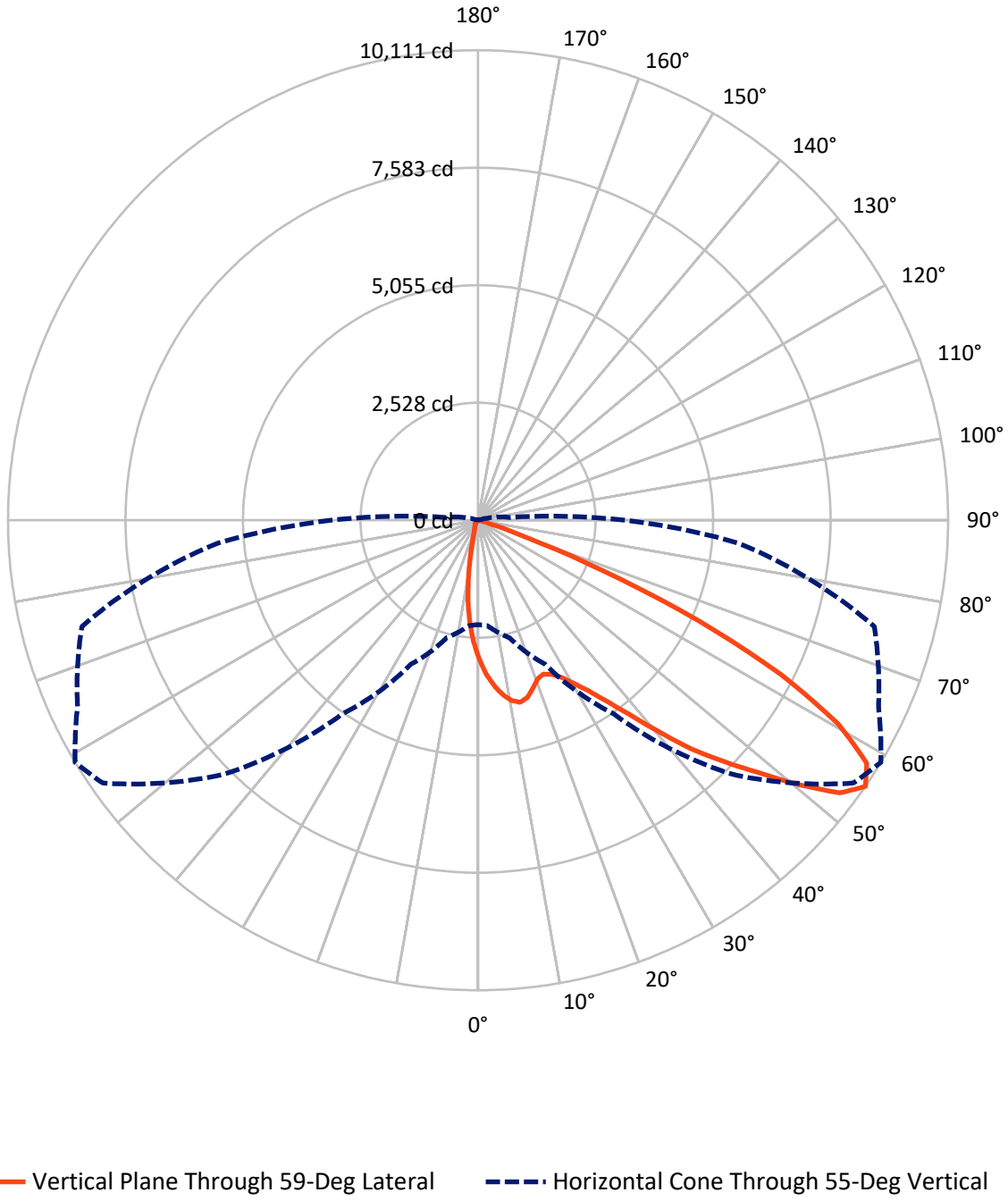
Luminous Intensity Polar Plot



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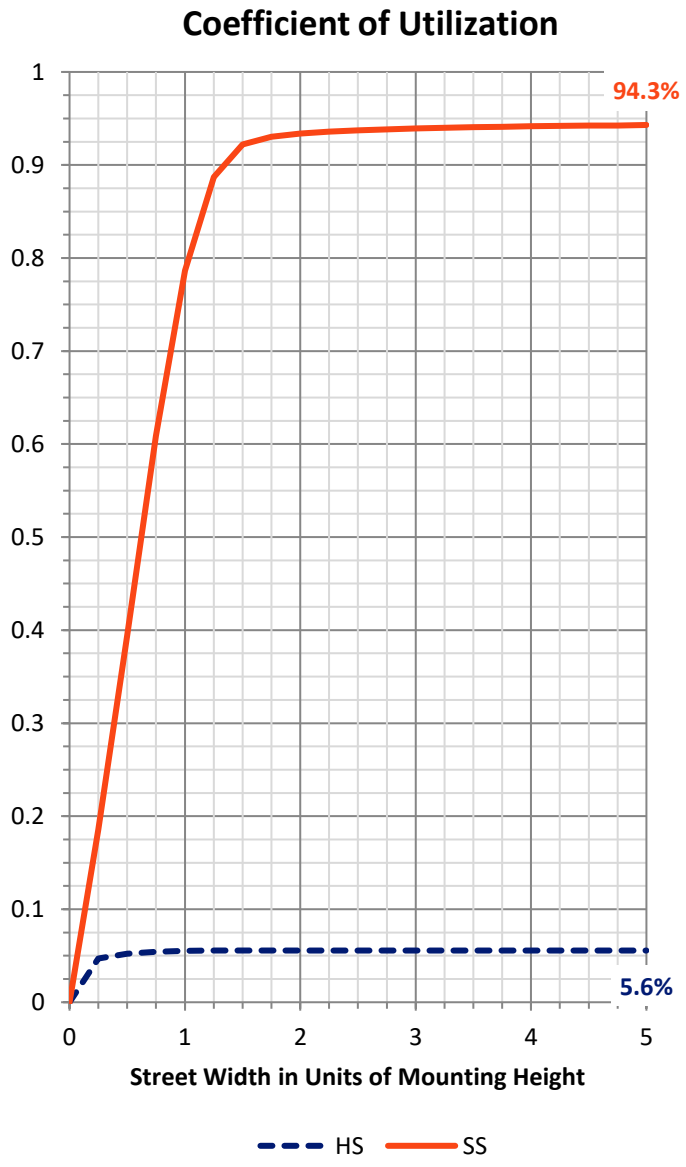
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	590.8	0.0	590.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9986.6	0.0	9986.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	10577.4	0.0	10577.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.4	2.4
10°-20°	597.1	5.6
20°-30°	1016.1	9.6
30°-40°	1747.4	16.5
40°-50°	2697.8	25.5
50°-60°	2712.2	25.6
60°-70°	1390.8	13.1
70°-80°	150.7	1.4
80°-90°	15.8	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°	10577.4	100.0
0°-180°	10577.4	100.0



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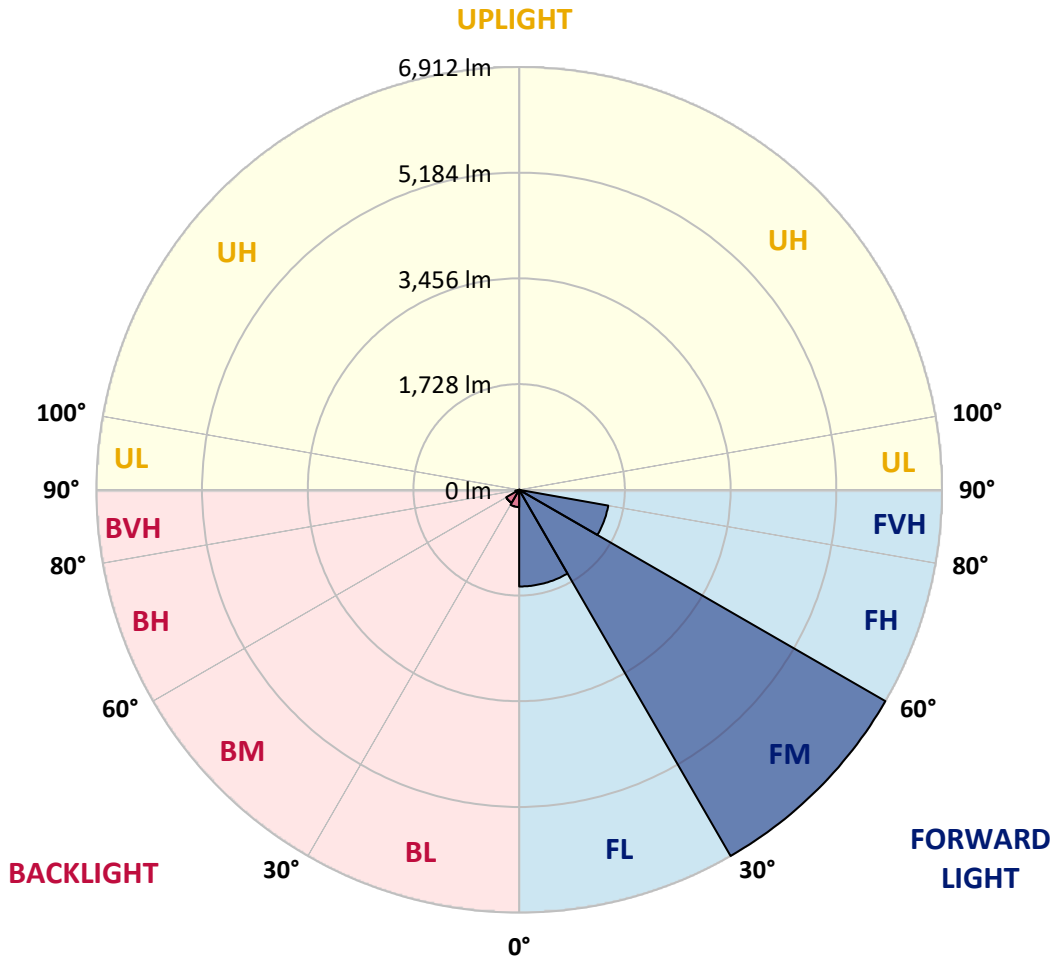
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1580.6	14.9			
FM	(30°-60°)	6912.3	65.3			
FH	(60°-80°)	1478.3	14.0			G1/1800
FVH	(80°-90°)	15.4	0.1			G1/100
BL	(0°-30°)	282.0	2.7	B1/500		
BM	(30°-60°)	245.2	2.3	B1/1000		
BH	(60°-80°)	63.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	*2977.6*	2977.6	2977.6	2977.6
2.5°	3523.1	3485.6	3474.3	3466.9	3432.6	3389.4	3330.8	*3303.4*	3247.1	3156.6	3045.5
5°	3845.8	3839.0	3813.9	3800.2	3763.4	3702.2	3608.7	*3563.6*	3474.3	3322.0	3122.9
7.5°	3704.7	3747.8	3782.1	3839.6	3911.9	3909.4	3830.8	*3783.9*	3684.1	3483.0	3209.1
10°	3159.8	3194.7	3250.9	3381.3	3647.3	3882.0	3974.5	*3940.7*	3860.7	3631.0	3292.1
12.5°	3053.0	3049.3	3059.3	3097.4	3236.6	3571.1	3950.0	*4018.0*	4001.8	3766.5	3370.7
15°	3109.8	3105.4	3104.2	3117.2	3151.0	3292.1	3767.2	*3962.5*	4087.9	3892.0	3437.6
17.5°	3269.0	3250.3	3240.3	3229.7	3219.7	3254.7	3547.4	*3807.0*	4101.0	4001.8	3493.1
20°	3541.7	3510.6	3473.8	3413.8	3357.6	3340.2	3455.0	*3647.3*	4054.3	4085.4	3529.3
22.5°	3884.5	3844.5	3780.8	3671.6	3557.4	3491.3	3500.5	*3596.7*	3984.3	4176.7	3546.1
25°	4269.7	4218.4	4133.5	3981.9	3813.9	3696.6	3635.4	*3669.2*	3952.6	4283.4	3565.4
27.5°	4682.2	4625.4	4514.3	4307.6	4117.3	3958.8	3833.9	*3829.5*	4006.9	4423.2	3596.7
30°	5091.1	5082.3	4937.5	4719.0	4466.8	4274.0	4094.2	*4071.1*	4158.5	4616.6	3658.5
32.5°	5636.6	5571.1	5393.8	5169.0	4878.2	4646.7	4433.7	*4380.1*	4391.3	4842.1	3754.0
35°	6324.6	6252.7	6003.0	5692.9	5367.6	5094.2	4858.9	*4785.9*	4758.3	5210.9	3915.1
37.5°	6768.9	6767.7	6611.1	6295.2	5946.2	5644.8	5388.8	*5303.3*	5247.7	5656.6	4164.8
40°	6780.8	6810.1	6830.8	6827.6	6579.1	6301.4	6074.3	*5968.8*	5839.5	6252.2	4487.5
42.5°	6416.9	6492.4	6674.1	6982.4	7129.7	7019.3	6827.6	*6724.1*	6531.7	6889.5	4880.7
45°	5925.0	5977.5	6295.2	6863.2	7428.1	7730.8	7584.8	*7399.5*	7146.0	7554.1	5233.4
47.5°	5704.7	5714.0	5919.4	6543.0	7450.6	8313.9	8402.6	*8101.0*	7704.1	8089.8	5509.3
50°	5046.1	5063.0	5346.4	5988.1	7187.2	8589.2	9224.0	*8938.1*	8312.7	8502.4	5609.8
52.5°	3803.4	3827.1	4186.6	5076.0	6463.1	8471.9	9812.0	*9742.7*	8979.3	8704.0	5615.4
55°	*2244.0*	*2275.3*	*2618.6*	*3417.0*	*5083.7*	*7725.2*	*9855.7*	*10110.5*	*9505.5*	*8823.2*	*5606.6*
57.5°	1048.1	1069.8	1266.6	1760.2	3161.6	6105.4	9197.8	*9858.3*	9795.7	8886.3	5668.5
60°	556.7	563.0	610.4	762.2	1428.8	3871.4	7913.7	*8901.9*	9531.1	8973.7	5744.0
62.5°	425.7	427.5	425.1	443.1	600.5	1718.4	5981.8	*7318.3*	8465.6	8908.1	5660.4
65°	368.9	372.0	354.5	350.1	385.1	613.0	3553.6	*5216.6*	6652.2	8023.7	5090.5
67.5°	330.8	332.0	310.9	292.7	299.1	331.5	1402.1	*2855.8*	4403.1	5881.3	3689.6
70°	304.7	303.4	280.2	251.6	243.4	226.6	445.7	*1046.8*	2104.3	2982.4	1715.9
72.5°	269.7	270.3	259.1	221.6	202.2	158.5	206.6	*305.3*	627.9	812.8	402.0
75°	239.1	236.0	222.3	198.6	166.6	104.3	102.3	*136.0*	193.5	192.3	86.8
77.5°	172.9	169.8	174.2	162.9	128.0	67.4	51.2	*65.5*	78.6	76.2	24.4
80°	126.7	124.9	112.3	135.5	113.0	46.2	31.8	*35.0*	40.5	34.3	7.5
82.5°	86.8	86.1	79.3	75.0	64.3	28.1	20.0	*21.9*	26.2	19.3	3.8
85°	13.7	15.7	57.5	45.6	38.1	12.4	13.7	*15.0*	17.5	10.6	1.2
87.5°	0.0	0.0	26.9	23.7	7.5	5.0	8.0	*8.7*	8.7	5.6	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°	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6	2977.6
2.5°	2988.8	2926.3	2810.8	2691.6	2581.1	2449.4	2358.9	2290.8	2212.2	2190.9	2237.2
5°	3009.3	2891.3	2642.9	2372.7	2118.5	1837.0	1621.7	1451.3	1297.1	1244.7	1292.1
7.5°	3041.8	2866.4	2461.3	2016.2	1574.3	1134.7	833.9	636.1	510.0	472.5	492.5
10°	3074.2	2830.2	2251.0	1594.2	990.0	552.5	359.6	287.2	260.2	254.7	257.9
12.5°	3101.1	2781.5	1994.3	1133.6	529.4	295.9	235.4	223.4	219.7	219.7	220.9
15°	3117.2	2707.9	1690.4	721.0	304.7	223.4	205.4	201.6	201.6	202.2	203.4
17.5°	3115.4	2614.2	1357.6	436.3	227.8	197.9	187.3	184.1	183.5	184.7	185.4
20°	3092.4	2491.8	1023.8	287.8	198.6	180.4	169.8	164.2	163.6	164.8	166.1
22.5°	3048.7	2340.8	732.2	221.6	179.1	163.6	150.4	145.5	145.5	146.7	147.9
25°	2995.6	2156.0	500.6	187.9	161.7	145.5	133.0	128.6	129.8	133.0	133.7
27.5°	2929.5	1948.2	340.3	161.0	140.4	127.3	118.0	114.8	118.0	122.4	123.6
30°	2872.7	1731.5	242.8	139.2	119.2	110.0	104.3	104.3	108.6	116.7	118.5
32.5°	2828.9	1521.9	187.3	122.9	103.6	95.5	92.5	95.5	102.3	110.5	112.3
35°	2823.4	1349.0	158.5	110.0	92.5	84.2	83.0	88.6	95.5	101.7	103.0
37.5°	2866.4	1189.2	142.9	99.2	82.4	75.0	73.6	80.6	87.4	94.8	96.8
40°	2948.2	1063.6	131.6	89.3	74.3	66.2	63.7	68.7	78.0	88.1	90.4
42.5°	3054.3	960.1	119.2	79.3	66.2	54.9	51.8	57.5	67.4	78.0	81.2
45°	3155.4	870.8	105.6	68.1	55.5	42.4	41.2	48.7	53.6	64.3	66.7
47.5°	3210.9	792.1	93.6	55.5	43.0	34.3	34.3	36.2	41.2	53.6	56.2
50°	3192.2	729.1	81.2	41.2	29.9	26.2	26.2	25.5	33.1	43.0	44.9
52.5°	3154.8	692.9	69.9	31.8	20.6	18.7	16.8	18.7	23.1	27.5	28.1
55°	*3149.2*	*686.5*	*58.7*	*25.5*	*14.3*	*12.4*	*9.4*	*9.4*	*9.4*	*8.7*	*7.5*
57.5°	3192.9	696.6	49.2	20.6	10.6	8.0	5.0	0.0	0.0	0.0	0.0
60°	3237.8	707.2	42.4	14.3	7.5	4.4	0.6	0.0	0.0	0.0	0.0
62.5°	3162.8	683.5	35.6	8.7	5.6	1.8	0.0	0.0	0.0	0.0	0.0
65°	2778.4	581.8	28.1	6.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1976.3	389.5	18.7	3.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	901.9	162.9	11.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	192.9	50.6	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.4	36.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.4	58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.5	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	6.2	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)