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: P321831

Luminaire Tested: **GAN-SA7A-727-U-T2-HSS**

Issue Date: 3/3/2020

Report Generated By E0585644

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Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P321831
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAN-SA7A-727-U-T2-HSS
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
	OPTICS WITH HOUSE SIDE SHIELD
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	19611 lumens
Efficiency:	N/A
Efficacy:	86.8 lumens/watt
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')
IES Classification:	Type II - Medium
BUG Rating:	B1 - U0 - G3

Input Watts (W):	226
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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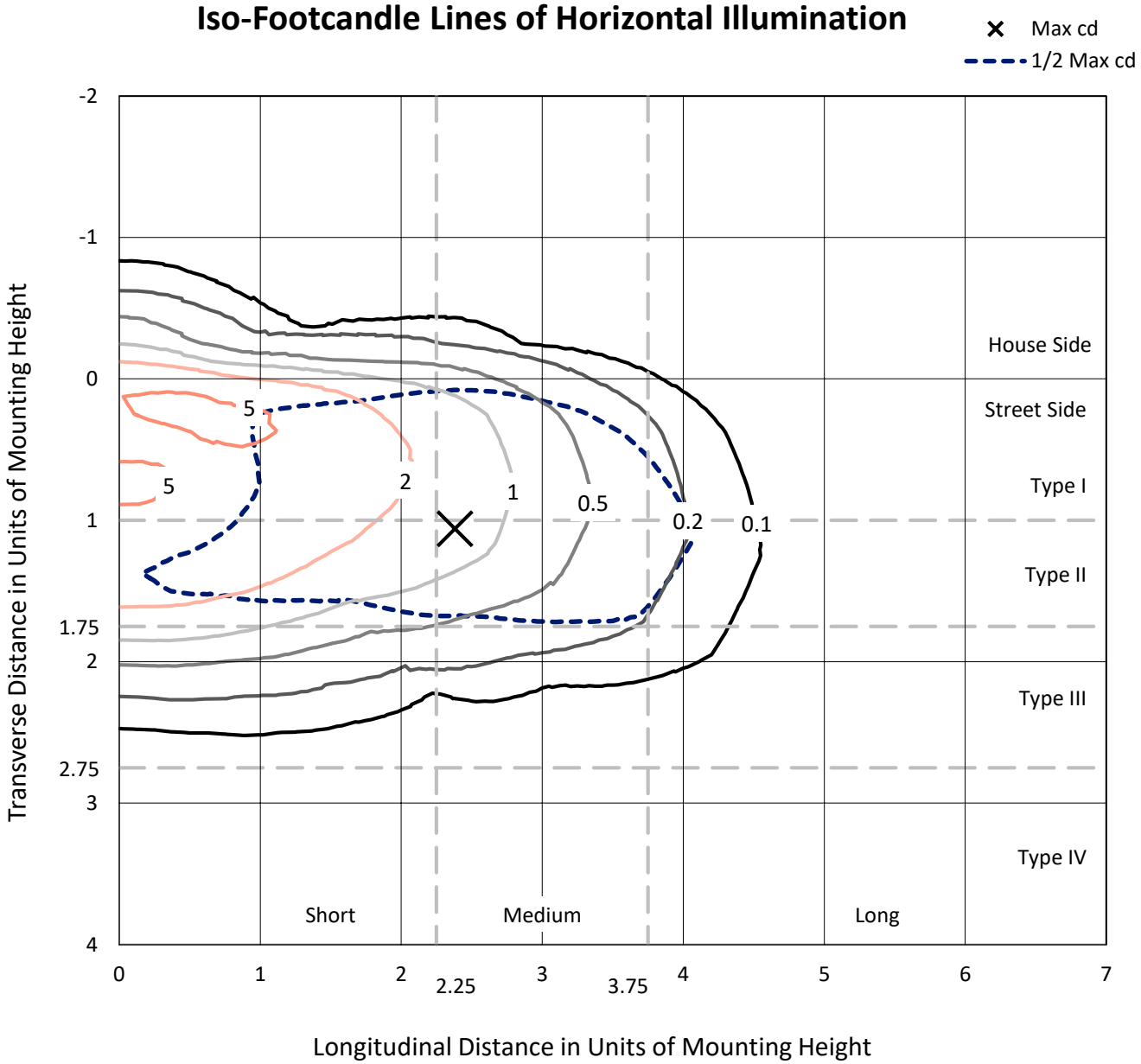
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Medium - N/A

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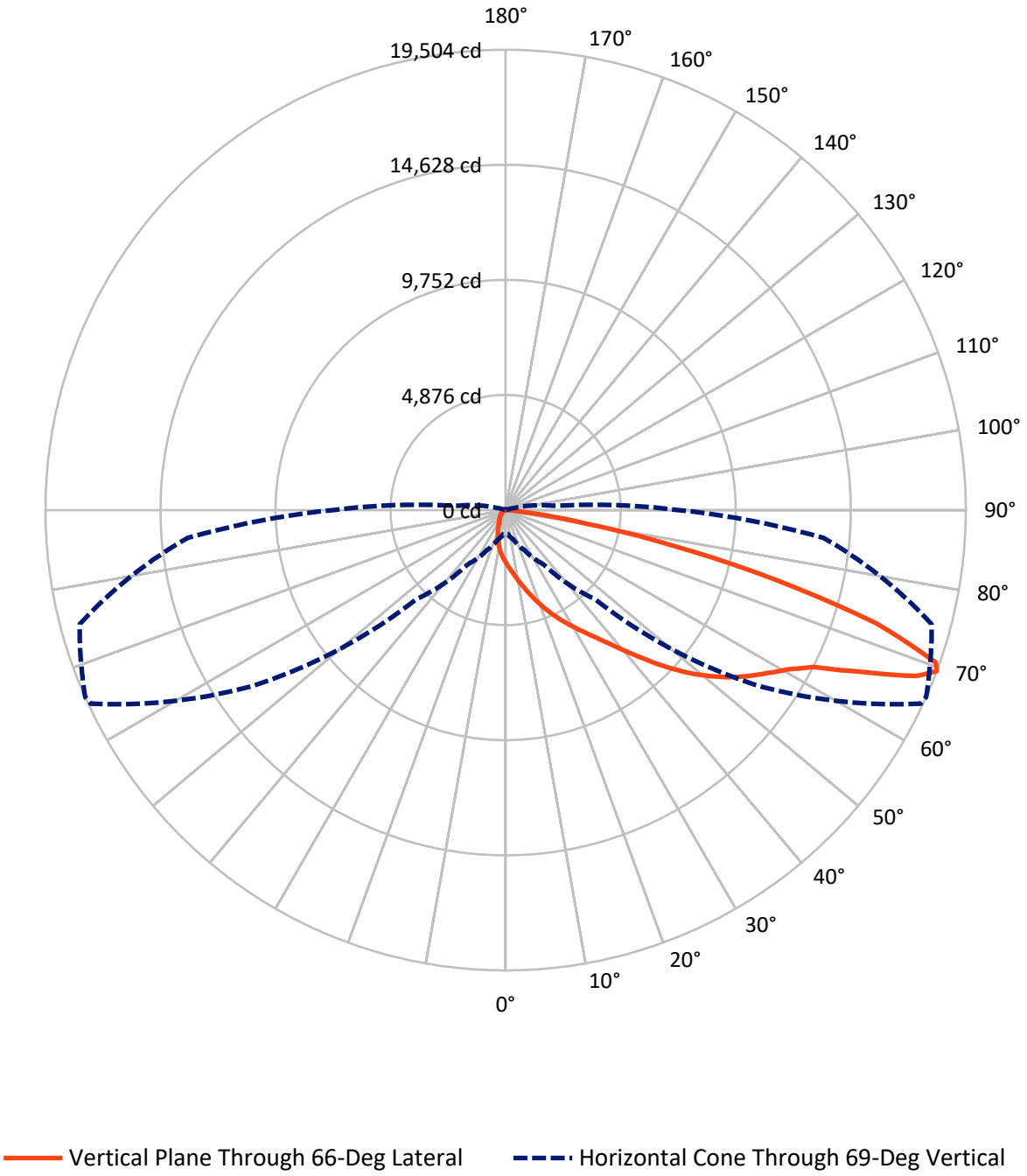
Luminous Intensity Polar Plot



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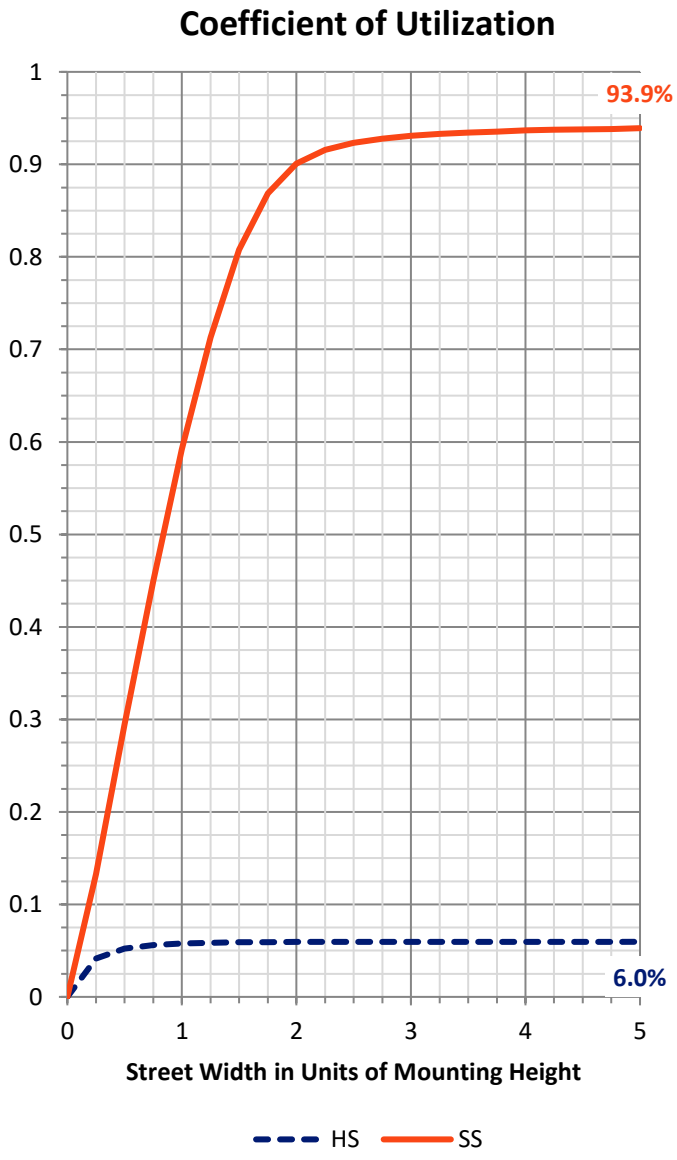
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.4	0.0	1176.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	18434.6	0.0	18434.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	19611.0	0.0	19611.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.7	1.1
10°-20°	642.1	3.3
20°-30°	1118.1	5.7
30°-40°	1961.6	10.0
40°-50°	3283.5	16.7
50°-60°	4826.4	24.6
60°-70°	4955.5	25.3
70°-80°	2446.4	12.5
80°-90°	161.8	0.8
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°	19611.0	100.0
0°-180°	19611.0	100.0



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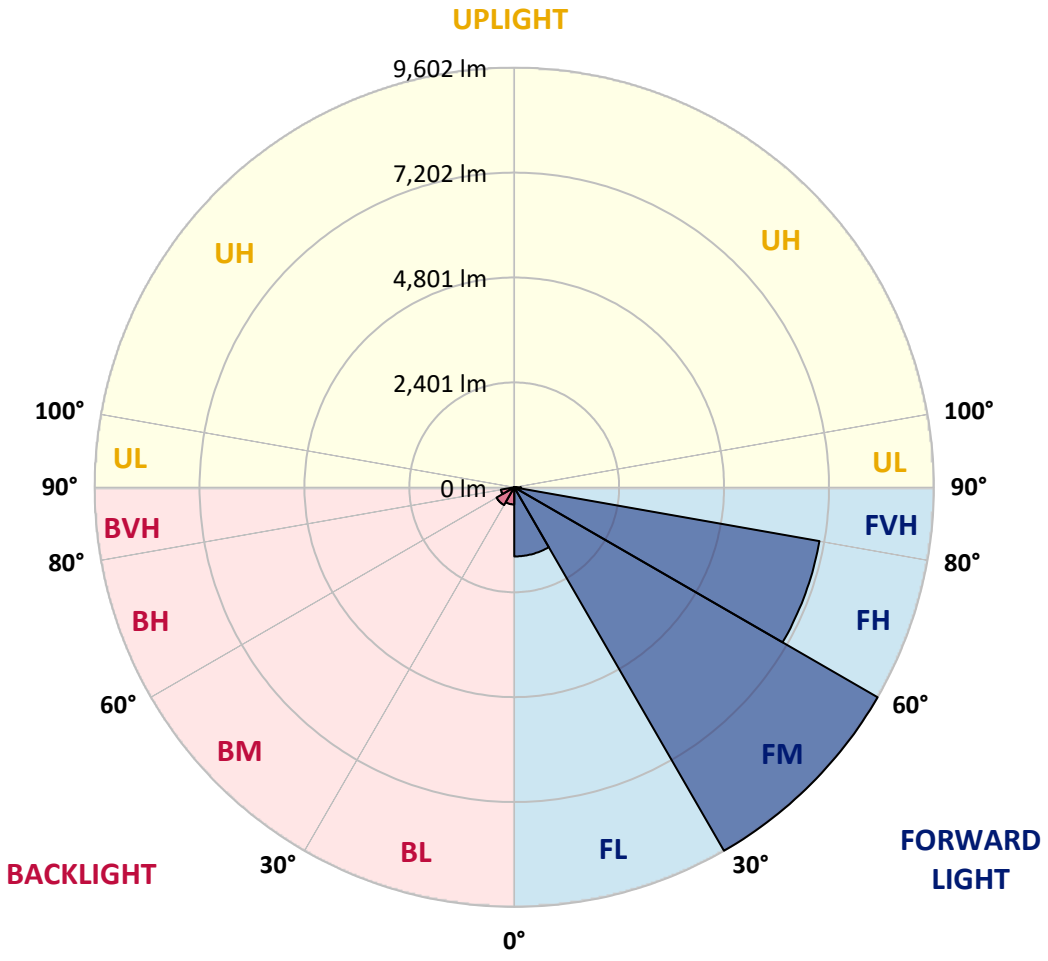
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1582.4	8.1			
FM	(30°-60°)	9602.5	49.0			
FH	(60°-80°)	7091.9	36.2			G3/7500
FVH	(80°-90°)	157.8	0.8			G2/225
BL	(0°-30°)	393.4	2.0	B1/500		
BM	(30°-60°)	469.0	2.4	B1/1000		
BH	(60°-80°)	310.0	1.6	B1/500		G1/500
BVH	(80°-90°)	3.9	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-G3
Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	*2231.8*	2231.8	2231.8
2.5°	2626.7	2615.6	2610.9	2590.4	2555.0	2528.0	2475.8	2415.3	*2404.1*	2345.4	2273.7
5°	2967.7	2958.3	2951.8	2922.9	2886.6	2818.6	2723.6	2610.9	*2589.5*	2477.7	2334.3
7.5°	3205.2	3221.9	3221.9	3203.3	3157.7	3106.4	2990.0	2836.3	*2809.3*	2637.9	2415.3
10°	3344.0	3364.5	3380.3	3396.1	3389.6	3369.1	3259.2	3085.9	*3053.3*	2826.1	2509.4
12.5°	3357.0	3377.5	3422.2	3488.3	3552.6	3599.2	3530.3	3362.6	*3325.3*	3044.0	2621.1
15°	3284.4	3305.8	3374.7	3503.2	3658.8	3794.8	3817.2	3669.0	*3630.9*	3303.9	2760.9
17.5°	3157.7	3171.6	3270.4	3448.3	3692.3	3942.0	4077.0	3997.9	*3962.5*	3601.1	2916.4
20°	3063.6	3073.8	3160.5	3351.4	3671.8	4034.2	4322.9	4347.2	*4309.9*	3919.6	3085.0
22.5°	3224.7	3243.4	3246.2	3336.5	3616.0	4079.8	4539.0	4690.9	*4662.9*	4257.7	3250.8
25°	3665.3	3686.7	3616.0	3560.1	3663.5	4100.3	4724.4	5043.0	*5020.6*	4621.9	3417.6
27.5°	4247.5	4269.8	4178.6	4011.8	3912.2	4177.6	4889.3	5400.6	*5399.7*	5007.6	3597.3
30°	4819.4	4841.8	4748.6	4581.9	4352.7	4396.5	5031.8	5775.1	*5780.7*	5405.3	3788.3
32.5°	5419.3	5447.2	5351.3	5137.0	4897.7	4774.7	5232.0	6151.4	*6183.1*	5866.4	4003.4
35°	6101.1	6104.8	5969.8	5745.3	5469.6	5280.5	5553.4	6573.4	*6648.8*	6437.4	4276.4
37.5°	6769.9	6796.9	6686.1	6332.1	6078.8	5864.5	6031.2	7100.6	*7207.7*	7135.0	4633.1
40°	7265.4	7322.3	7306.4	6924.5	6684.2	6531.4	6624.6	7727.4	*7863.4*	7947.3	5083.0
42.5°	7576.6	7619.4	7692.1	7462.0	7244.0	7269.2	7325.1	8457.7	*8625.4*	8873.2	5600.0
45°	7933.3	7953.8	8014.3	7912.8	7765.6	8019.0	8068.4	9280.2	*9456.3*	9868.9	6173.8
47.5°	8369.2	8417.7	8434.4	8341.3	8274.2	8682.2	8784.7	10028.2	*10275.0*	10935.4	6781.1
50°	8924.4	8937.4	8966.3	8905.8	8838.7	9252.3	9427.4	10813.4	*11037.9*	12005.7	7380.0
52.5°	9467.4	9514.0	9614.6	9576.4	9549.4	9737.6	10000.2	11521.3	*11771.9*	12898.0	7978.0
55°	9623.9	9664.0	10011.4	10248.9	10468.8	10335.6	10547.9	12155.6	*12426.7*	13695.4	8553.7
57.5°	8998.9	9079.9	9681.7	10300.2	11212.1	11265.2	11300.6	12806.7	*13049.9*	14306.4	9152.6
60°	7419.1	7435.0	8422.3	9483.3	11089.1	12076.5	12399.7	13506.3	*13710.3*	14875.5	9869.8
62.5°	4718.8	4880.0	5963.3	7461.1	9788.8	11959.1	13728.9	14564.4	*14638.9*	15558.3	10898.2
65°	2247.6	2352.0	3132.5	4609.8	7090.3	10456.6	14646.4	16478.6	*16512.1*	16911.7	12272.1
67.5°	1244.4	1294.7	1666.4	2481.4	4145.0	7394.9	14275.7	18745.8	*18777.4*	18294.0	13477.4
69°	*973.4*	*1016.2*	*1308.7*	*1870.4*	*2810.2*	*5315.0*	*12918.5*	*19409.9*	*19504.0*	*18689.9*	*13520.2*
70°	826.2	868.1	1127.1	1579.8	2259.7	4106.8	11499.0	19245.0	*19344.7*	18652.6	13200.7
72.5°	505.8	530.0	750.8	1112.2	1514.6	2066.0	7091.3	16275.5	*16444.1*	17110.1	11345.3
75°	340.9	354.0	469.5	767.5	1083.3	1063.7	3684.0	11471.9	*11837.1*	13309.7	8379.5
77.5°	244.0	256.2	314.8	496.5	759.1	702.3	1668.3	7129.4	*7207.7*	7982.7	4569.8
80°	138.8	150.0	222.6	295.3	515.1	468.5	663.2	3405.4	*3444.6*	3423.1	1525.7
82.5°	72.7	82.0	122.0	194.7	330.7	306.5	275.7	1140.1	*1145.7*	952.9	334.4
85°	14.0	16.8	60.5	133.2	170.5	133.2	112.7	267.3	*272.9*	241.2	82.9
87.5°	0.0	0.9	24.2	29.8	33.5	34.5	36.3	52.2	*55.9*	75.4	22.4
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°	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8	2231.8
2.5°	2242.0	2208.5	2144.2	2069.7	2012.0	1955.1	1910.4	1863.9	1847.1	1838.7	1837.8
5°	2264.4	2193.6	2057.6	1917.9	1803.3	1695.3	1618.0	1544.4	1509.9	1494.1	1487.6
7.5°	2301.7	2188.0	1969.1	1755.8	1590.9	1455.9	1348.8	1268.7	1228.6	1211.8	1205.3
10°	2345.4	2180.6	1865.7	1584.4	1373.9	1234.2	1128.0	1048.8	1005.1	986.4	977.1
12.5°	2396.7	2167.5	1746.5	1411.2	1188.6	1048.8	920.3	822.5	772.2	750.8	740.5
15°	2460.0	2154.5	1621.7	1248.2	1025.5	855.1	714.4	648.3	638.1	634.3	635.3
17.5°	2522.4	2134.0	1485.7	1087.0	854.2	667.9	596.1	592.4	594.3	594.3	594.3
20°	2578.3	2087.4	1337.6	949.2	691.1	563.5	548.6	542.1	537.5	533.7	529.1
22.5°	2622.1	2025.0	1195.1	812.2	564.5	516.0	492.7	472.3	455.5	444.3	438.7
25°	2651.9	1942.1	1064.7	680.9	507.6	469.5	427.5	393.1	367.0	351.2	344.6
27.5°	2674.2	1852.7	948.2	570.1	468.5	415.4	360.5	319.5	292.5	278.5	272.9
30°	2690.1	1751.2	845.8	501.1	424.7	358.6	299.9	259.9	240.3	232.9	229.1
32.5°	2705.0	1638.5	748.9	468.5	383.8	306.5	251.5	220.8	208.6	199.3	196.5
35°	2742.2	1534.1	656.7	434.1	341.8	261.7	216.1	193.7	181.6	176.0	174.2
37.5°	2830.7	1456.8	568.2	398.7	299.9	226.3	189.1	173.3	162.1	156.5	154.6
40°	2973.2	1417.7	493.7	360.5	258.9	199.3	171.4	156.5	144.4	136.0	134.1
42.5°	3182.8	1423.3	441.5	322.3	226.3	177.9	154.6	136.9	123.9	116.4	114.6
45°	3437.1	1464.3	405.2	285.0	199.3	161.1	136.0	117.4	105.3	98.7	96.9
47.5°	3712.8	1530.4	375.4	251.5	177.9	145.3	117.4	97.8	87.6	82.0	81.0
50°	4003.4	1594.7	344.6	218.9	159.3	129.5	98.7	81.0	72.7	68.0	66.1
52.5°	4297.8	1669.2	316.7	189.1	143.4	110.8	82.0	66.1	59.6	55.9	54.0
55°	4614.5	1725.1	289.7	165.8	127.6	94.1	68.0	55.0	49.4	44.7	43.8
57.5°	4987.1	1811.7	261.7	143.4	109.0	78.2	55.9	43.8	39.1	34.5	33.5
60°	5490.1	1913.2	231.9	126.7	89.4	64.3	45.6	35.4	29.8	26.1	25.1
62.5°	6153.3	2025.9	194.7	110.8	72.7	52.2	36.3	27.9	21.4	16.8	16.8
65°	6994.4	2209.4	159.3	93.1	59.6	42.8	27.9	20.5	12.1	7.5	7.5
67.5°	7485.3	2241.1	128.5	76.4	48.4	36.3	23.3	14.0	3.7	0.9	0.0
69°	*7327.9*	*2057.6*	*109.0*	*65.2*	*41.9*	*34.5*	*21.4*	*10.2*	*1.9*	*0.0*	*0.0*
70°	7031.6	1881.6	95.9	57.8	38.2	32.6	20.5	7.5	1.9	0.0	0.0
72.5°	5810.5	1339.4	72.7	42.8	27.9	28.9	18.6	4.7	1.9	0.0	0.0
75°	4232.6	814.1	52.2	29.8	17.7	21.4	13.0	1.9	0.9	0.0	0.0
77.5°	2354.7	383.8	32.6	16.8	11.2	13.0	6.5	0.0	0.0	0.0	0.0
80°	764.7	104.3	14.9	9.3	6.5	7.5	2.8	0.0	0.0	0.0	0.0
82.5°	141.6	29.8	8.4	4.7	1.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	30.7	12.1	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.2	3.7	0.9	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)