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: P318658

Luminaire Tested: **GAN-SA4D-727-U-T4FT**

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:	P318658
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab:	INNOVATION CENTER
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	GAN-SA4D-727-U-T4FT
Description:	GALLEON AREA AND ROADWAY LUMINAIRE
	(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	26333 lumens
Efficiency:	N/A
Efficacy:	102.1 lumens/watt
Luminous Opening:	Rectangular (W 1' x L: 1' x H: 0')
IES Classification:	Type IV - Short
BUG Rating:	B3 - U0 - G5

Input Watts (W):	258
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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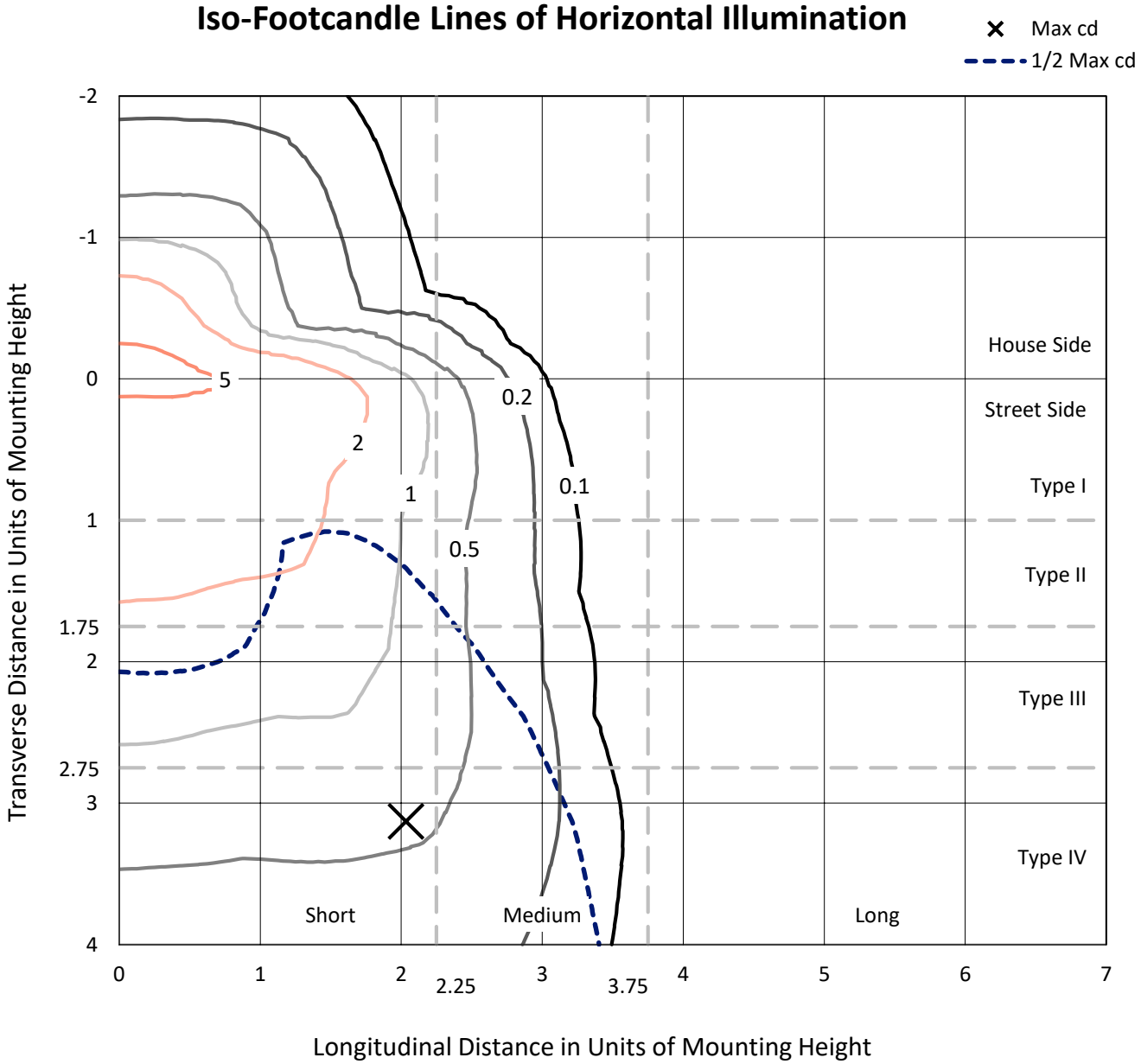
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
Type IV - Short - N/A

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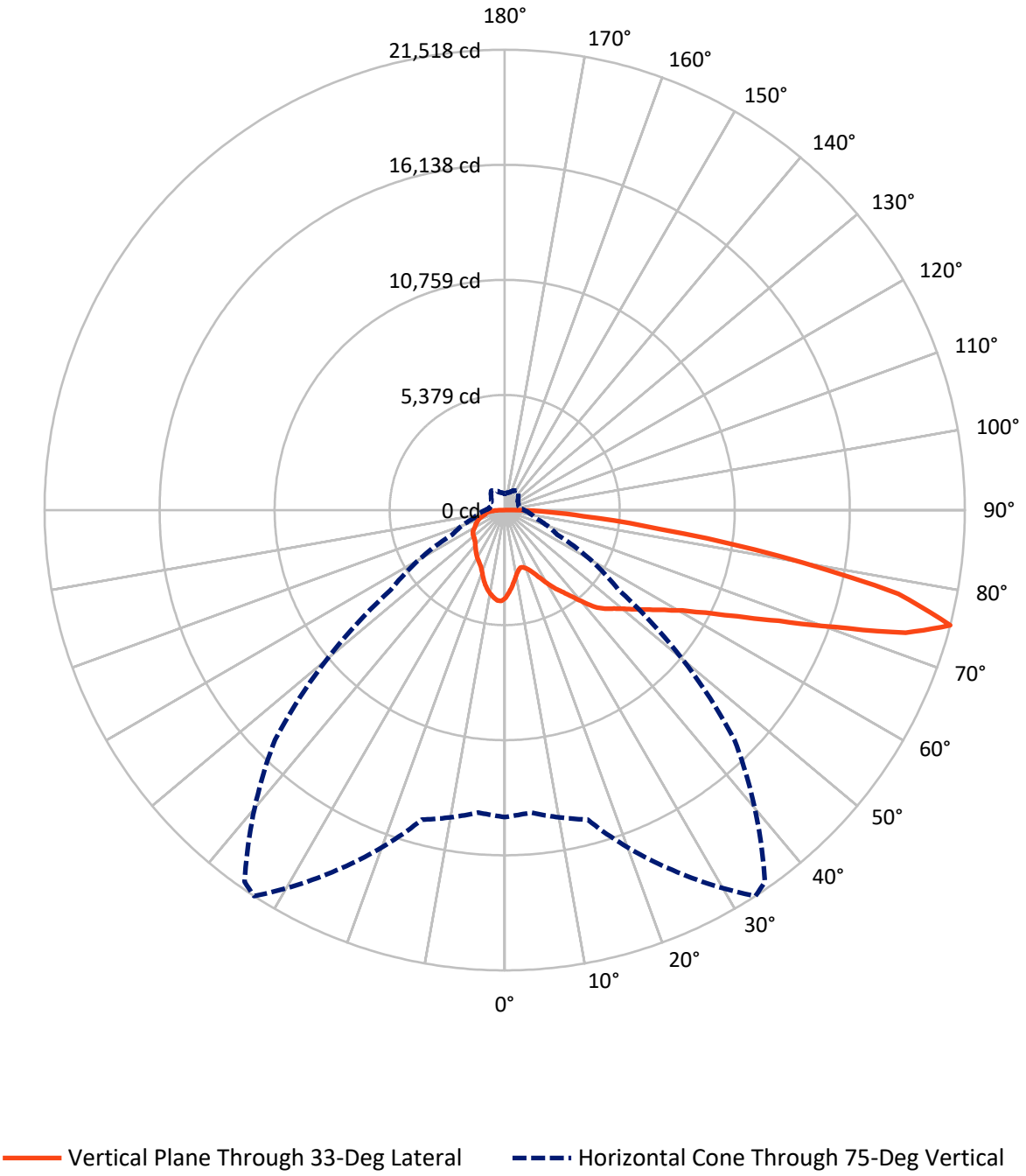
Luminous Intensity Polar Plot



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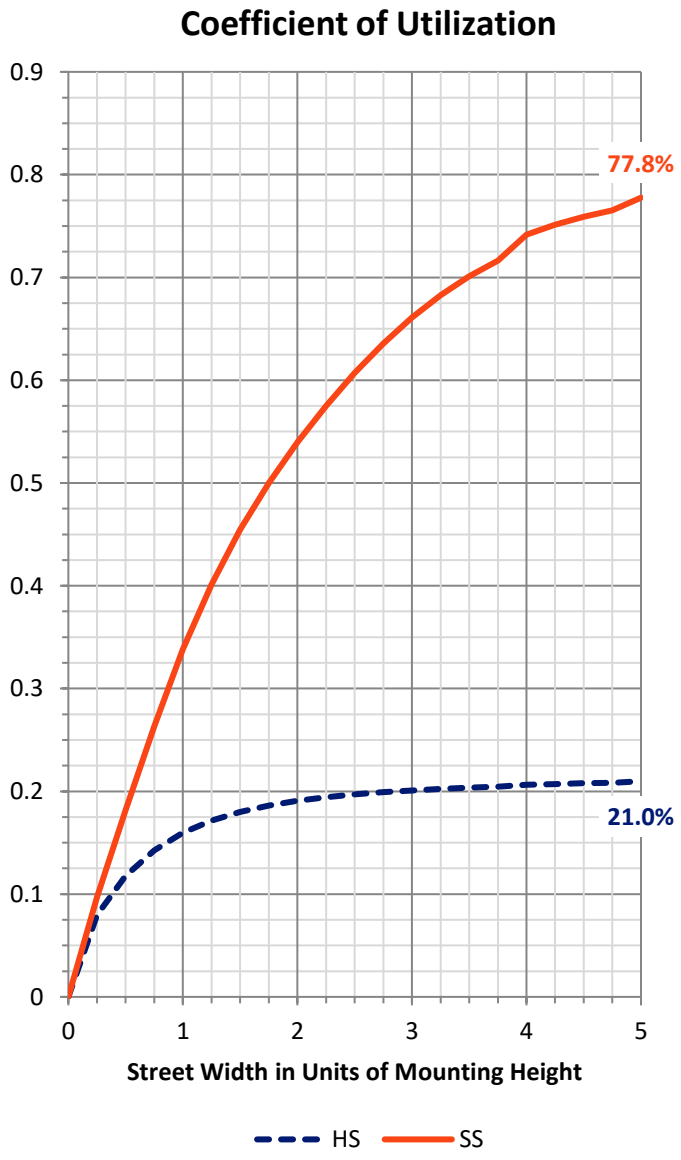
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5654.4	0.0	5654.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	20678.6	0.0	20678.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	26333.0	0.0	26333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.2	1.4
10°-20°	1008.2	3.8
20°-30°	1646.5	6.3
30°-40°	2452.0	9.3
40°-50°	3516.9	13.4
50°-60°	4828.1	18.3
60°-70°	6044.6	23.0
70°-80°	5468.3	20.8
80°-90°	996.1	3.8
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°	26333.0	100.0
0°-180°	26333.0	100.0



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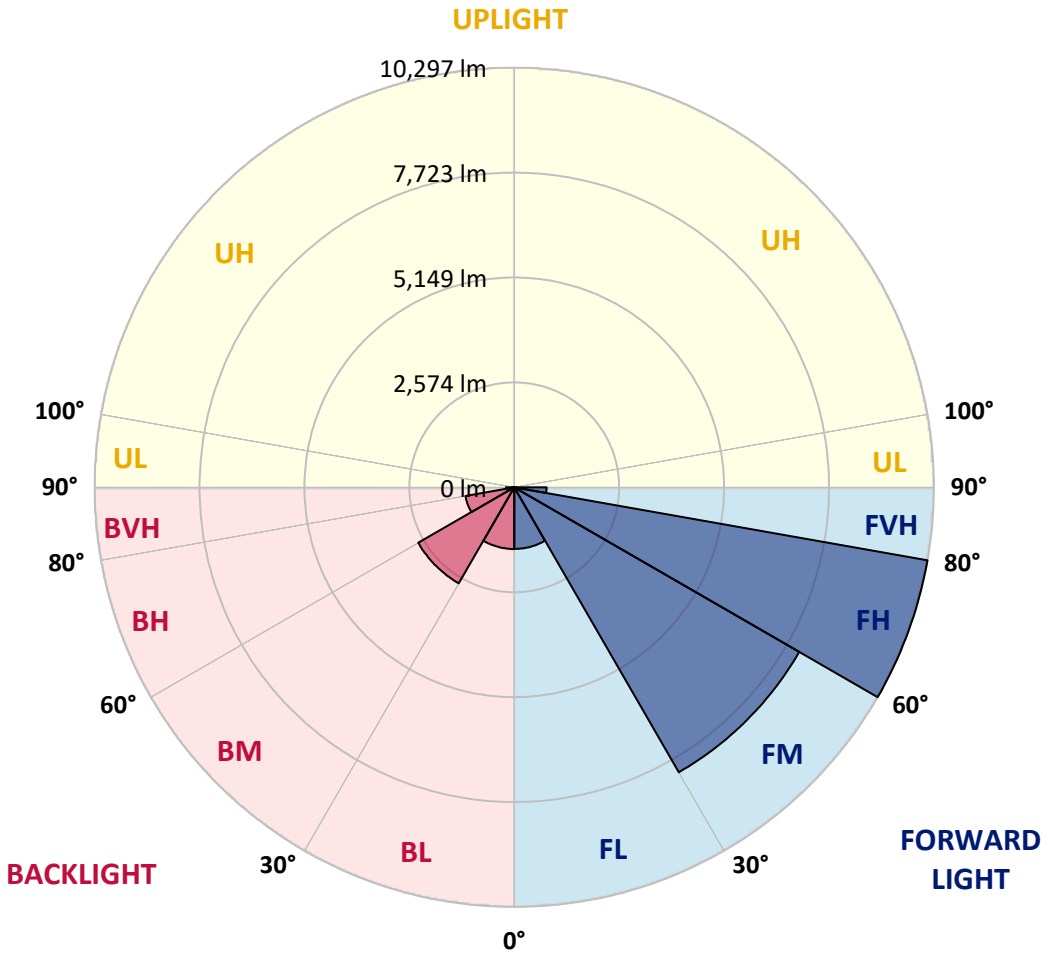
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1512.4	5.7			
FM	(30°-60°)	8075.8	30.7			
FH	(60°-80°)	10297.1	39.1			G4/12000
FVH	(80°-90°)	793.3	3.0			G5
BL	(0°-30°)	1514.5	5.8	B3/2500		
BM	(30°-60°)	2721.3	10.3	B3/5000		
BH	(60°-80°)	1215.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	202.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	4116.0	4116.0	4116.0	4116.0	*4116.0*	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0
2.5°	3822.2	3807.6	3834.9	3838.6	*3862.2*	3871.3	3904.1	3955.0	3996.8	4045.0	4088.7
5°	3475.6	3465.6	3503.8	3531.1	*3583.0*	3604.8	3682.1	3790.4	3886.8	3995.9	4095.1
7.5°	3146.3	3140.9	3183.6	3245.5	*3305.5*	3335.5	3469.3	3626.6	3787.6	3964.1	4116.0
10°	2868.9	2867.1	2908.0	2969.0	*3057.2*	3090.9	3263.7	3471.1	3696.7	3939.5	4151.5
12.5°	2713.4	2719.7	2738.8	2789.8	*2871.6*	2905.3	3097.2	3341.0	3620.3	3931.3	4203.3
15°	2751.6	2761.6	2728.8	2727.0	*2785.2*	2811.6	2991.7	3248.2	3565.7	3945.0	4278.8
17.5°	2914.4	2916.2	2829.8	2775.2	*2810.7*	2824.3	2959.0	3195.5	3533.8	3975.9	4373.4
20°	3143.6	3139.1	2986.3	2895.3	*2914.4*	2918.0	3005.4	3196.4	3531.1	4029.6	4496.2
22.5°	3447.4	3413.8	3208.2	3084.5	*3079.9*	3074.5	3124.5	3263.7	3571.1	4116.9	4642.7
25°	3844.0	3812.2	3529.3	3360.1	*3323.7*	3310.1	3317.4	3407.4	3650.3	4210.6	4806.4
27.5°	4285.2	4229.7	3956.8	3717.6	*3642.1*	3623.0	3579.3	3610.3	3736.7	4300.6	5001.0
30°	4654.5	4624.5	4386.2	4102.4	*4013.2*	3985.9	3871.3	3837.7	3861.3	4423.4	5246.6
32.5°	4861.0	4841.0	4696.3	4467.1	*4384.3*	4346.1	4184.2	4116.9	4061.4	4617.2	5579.6
35°	5111.1	5098.4	5011.1	4844.6	*4721.8*	4681.8	4556.2	4486.2	4343.4	4883.7	6009.8
37.5°	5429.5	5415.8	5417.7	5283.0	*5136.6*	5099.3	5016.5	4942.8	4709.1	5233.9	6477.3
40°	5789.7	5763.3	5753.3	5746.9	*5654.1*	5633.2	5589.6	5489.5	5167.5	5652.3	6938.5
42.5°	6331.8	6238.1	6038.0	6113.5	*6205.4*	6194.5	6229.9	6086.2	5676.9	6147.2	7388.8
45°	6854.8	6701.1	6355.5	6371.8	*6572.9*	6633.8	6899.4	6797.5	6229.0	6689.3	7854.5
47.5°	7093.2	6976.7	6682.9	6683.8	*6883.0*	7009.5	7591.6	7518.9	6809.4	7305.1	8423.0
50°	7359.7	7243.2	6979.5	7078.6	*7252.3*	7387.0	8260.2	8222.9	7361.5	7979.1	9104.3
52.5°	7650.7	7453.4	7286.0	7463.4	*7707.1*	7863.6	8929.7	8827.8	7868.1	8657.7	9887.5
55°	7654.4	7600.7	7728.1	7858.1	*8222.9*	8414.8	9631.0	9361.7	8281.1	9324.4	10525.1
57.5°	8090.1	8002.8	8272.9	8333.0	*8809.6*	9026.1	10328.6	9826.5	8701.4	9835.6	10869.0
60°	8666.8	8592.2	8813.2	8971.5	*9535.5*	9824.7	11073.6	10304.1	9031.5	10221.3	10852.6
62.5°	9662.8	9578.2	9575.5	9797.4	*10557.0*	10893.5	11909.6	10772.5	9162.5	10297.7	10389.6
65°	11120.9	10986.3	10732.5	10838.0	*11967.8*	12303.4	12843.7	11111.8	8989.7	9888.4	9197.1
67.5°	12539.9	12535.4	12223.4	12439.9	*13830.7*	14099.9	13908.0	11145.5	8450.3	8463.0	7081.3
70°	13954.4	13972.6	13919.8	14673.0	*16347.6*	16627.7	15041.3	10693.4	7237.8	6111.7	4242.4
72.5°	15075.0	15070.5	15336.1	17278.1	*19614.0*	19551.2	15996.4	9323.5	5196.6	3299.2	2027.5
75°	*14349.1*	*14190.9*	*14982.2*	*18567.9*	*21517.8*	*21211.2*	*15184.2*	*6503.7*	*2697.0*	*1501.8*	*1091.5*
77.5°	9359.0	9509.1	10670.7	15338.8	*18821.7*	18448.8	11140.0	3034.5	1270.7	985.1	791.4
80°	3389.2	3547.5	4996.5	8688.6	*12967.4*	12906.5	5485.9	1247.1	859.6	744.1	576.7
82.5°	1166.1	1224.3	1971.1	3858.6	*7321.5*	7594.4	2063.9	708.6	624.9	527.6	394.8
85°	457.5	523.9	901.4	1856.5	*3693.0*	3720.3	835.9	423.9	434.8	345.7	216.5
87.5°	173.7	211.0	431.2	862.3	*1686.4*	1549.1	299.3	201.9	247.4	205.6	102.8
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°	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0	4116.0
2.5°	4122.4	4141.5	4181.5	4208.8	4237.9	4246.1	4249.7	4257.0	4264.3	4261.5	4262.4
5°	4147.8	4185.1	4249.7	4277.0	4289.7	4275.2	4247.0	4224.2	4207.9	4198.8	4196.0
7.5°	4189.7	4242.4	4311.6	4307.0	4277.9	4213.3	4140.6	4086.0	4040.5	4024.1	4015.0
10°	4245.2	4307.0	4355.2	4303.4	4218.8	4106.9	3997.7	3913.2	3844.9	3818.6	3814.0
12.5°	4316.1	4378.9	4388.0	4277.9	4137.8	3985.0	3836.7	3724.9	3623.0	3590.2	3583.0
15°	4408.0	4467.1	4410.7	4233.3	4037.8	3832.2	3640.3	3488.4	3381.0	3341.0	3326.5
17.5°	4504.4	4560.8	4415.3	4159.7	3906.8	3651.2	3410.1	3254.6	3131.8	3085.4	3079.9
20°	4619.9	4645.4	4396.2	4054.1	3726.7	3416.5	3162.7	3016.3	2950.8	2918.0	2914.4
22.5°	4762.7	4735.4	4352.5	3911.3	3498.4	3145.4	2939.0	2870.7	2854.4	2847.1	2849.8
25°	4913.7	4830.0	4287.9	3724.9	3210.0	2874.4	2775.2	2794.3	2816.2	2813.4	2813.4
27.5°	5080.2	4926.5	4188.8	3477.4	2890.7	2652.4	2664.3	2734.3	2767.0	2766.1	2765.2
30°	5293.9	5035.6	4062.3	3180.0	2592.4	2496.0	2567.8	2653.3	2697.9	2696.1	2697.0
32.5°	5556.8	5155.7	3890.4	2848.0	2376.8	2380.5	2463.2	2547.8	2599.7	2595.1	2596.0
35°	5864.3	5290.3	3657.6	2520.5	2234.0	2288.6	2354.1	2413.2	2462.3	2456.0	2449.6
37.5°	6199.0	5422.2	3348.3	2227.6	2117.6	2203.1	2257.7	2267.7	2290.4	2274.0	2262.2
40°	6517.4	5523.2	2949.9	1987.5	2000.2	2130.3	2165.8	2125.8	2084.8	2079.4	2063.0
42.5°	6794.8	5556.8	2546.9	1795.6	1876.5	2053.9	2075.7	1992.1	1918.4	1883.8	1869.3
45°	7087.7	5568.6	2171.2	1634.6	1757.4	1985.7	2009.3	1897.5	1793.8	1719.2	1694.6
47.5°	7470.6	5654.1	1879.3	1515.4	1666.4	1940.2	1973.9	1822.0	1687.3	1580.9	1558.2
50°	7971.8	5823.3	1641.9	1424.5	1607.3	1910.2	1948.4	1748.3	1600.0	1471.8	1449.0
52.5°	8528.5	5978.9	1449.9	1350.8	1550.0	1857.4	1915.6	1695.5	1518.1	1370.8	1346.2
55°	8917.8	5859.7	1295.3	1274.4	1475.4	1781.9	1870.2	1650.9	1400.8	1272.5	1250.7
57.5°	8992.4	5452.2	1177.9	1195.2	1385.3	1687.3	1800.1	1551.8	1337.1	1229.8	1207.1
60°	8788.7	4884.6	1090.6	1122.5	1288.9	1568.2	1669.1	1481.8	1276.2	1184.3	1165.2
62.5°	8276.6	4303.4	1026.0	1057.0	1198.9	1447.2	1587.3	1408.1	1214.3	1132.5	1113.4
65°	7242.3	3613.0	964.2	998.8	1115.2	1342.6	1513.6	1339.9	1153.4	1090.6	1072.4
67.5°	5466.8	2706.1	906.0	936.9	1040.6	1251.6	1433.5	1272.5	1094.3	1054.2	1032.4
70°	3219.1	1694.6	839.6	872.3	962.4	1157.0	1348.0	1198.9	1020.6	1002.4	974.2
72.5°	1498.1	1019.7	764.1	795.9	864.1	1030.6	1238.0	1102.5	933.3	893.2	855.0
75°	*894.1*	*745.9*	*674.9*	*703.1*	*751.3*	*896.0*	*1099.7*	*1004.2*	*850.5*	*797.7*	*757.7*
77.5°	668.6	570.3	576.7	606.7	645.8	784.1	974.2	926.9	786.8	745.9	718.6
80°	481.2	433.0	470.3	503.0	543.9	713.1	933.3	856.9	711.3	656.7	631.3
82.5°	321.1	311.1	353.8	387.5	427.5	624.0	876.9	750.4	607.6	538.5	482.1
85°	177.4	187.4	238.3	252.9	287.4	439.3	718.6	603.1	457.5	368.4	352.0
87.5°	73.7	86.4	128.3	123.7	152.8	262.0	473.0	363.8	291.1	217.4	169.2
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)