

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: P321858

Luminaire Tested: **GAN-SA4D-727-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321858
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-SA4D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA 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: 18621 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

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

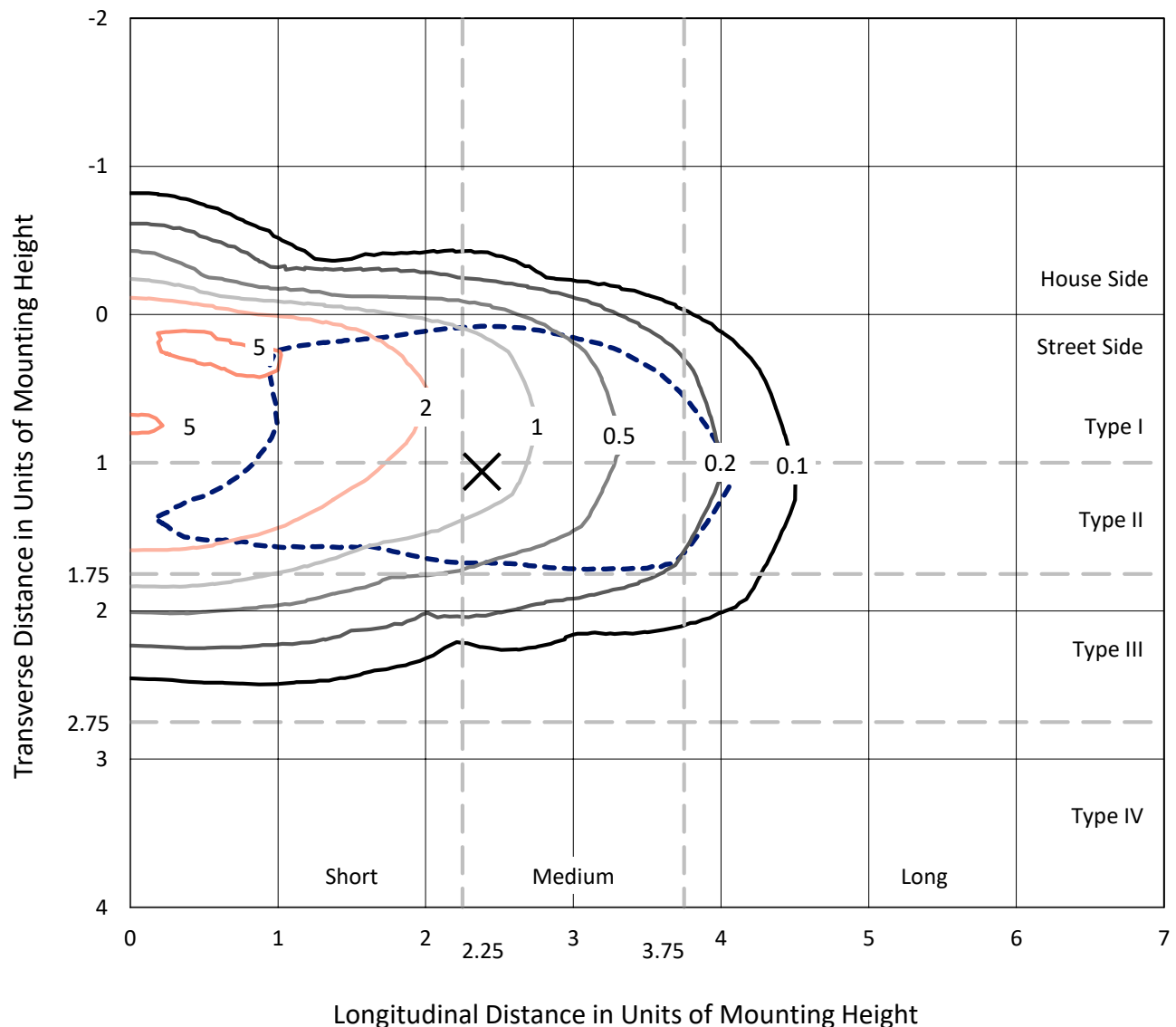


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Iso-Footcandle Lines of Horizontal Illumination

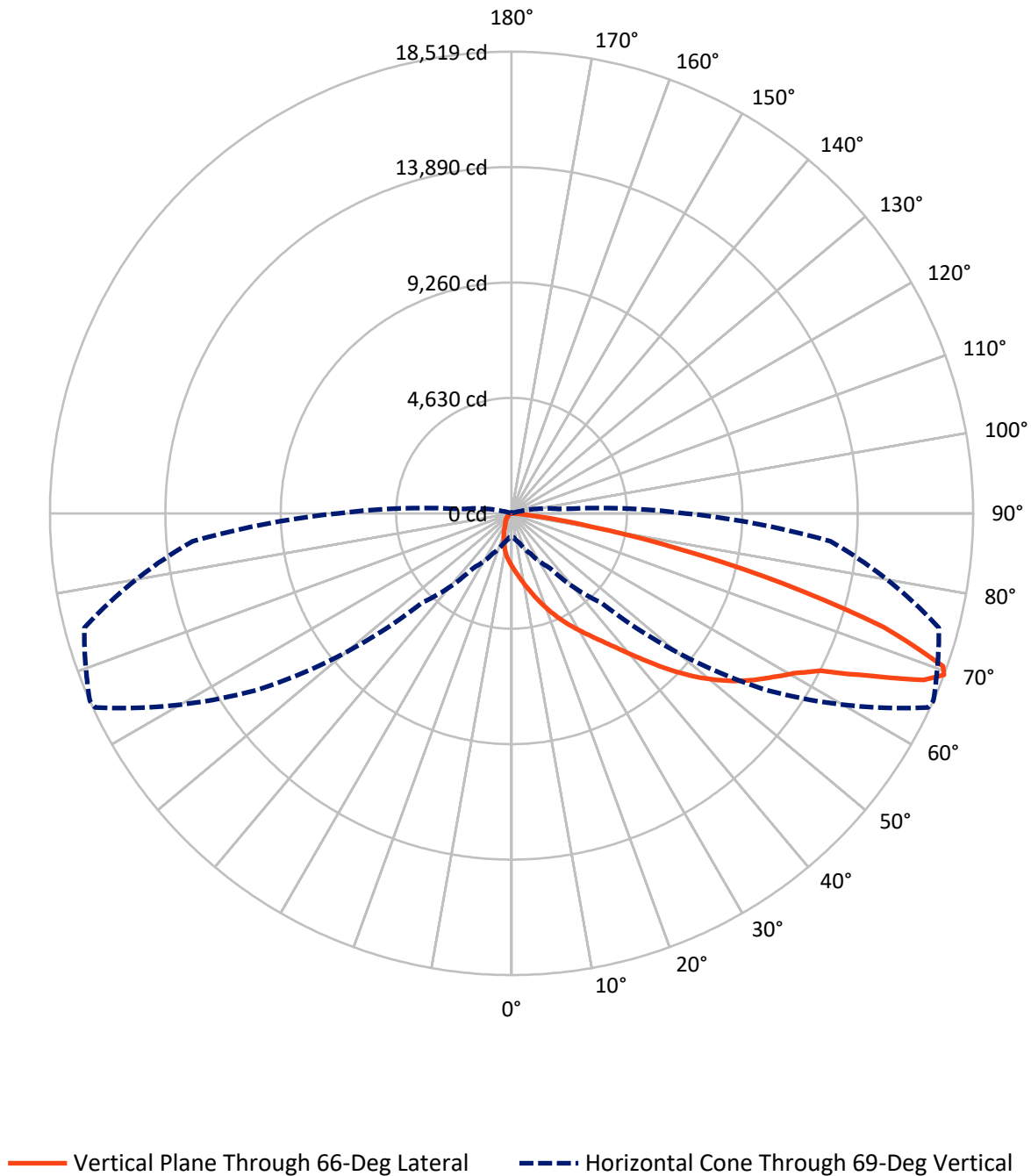
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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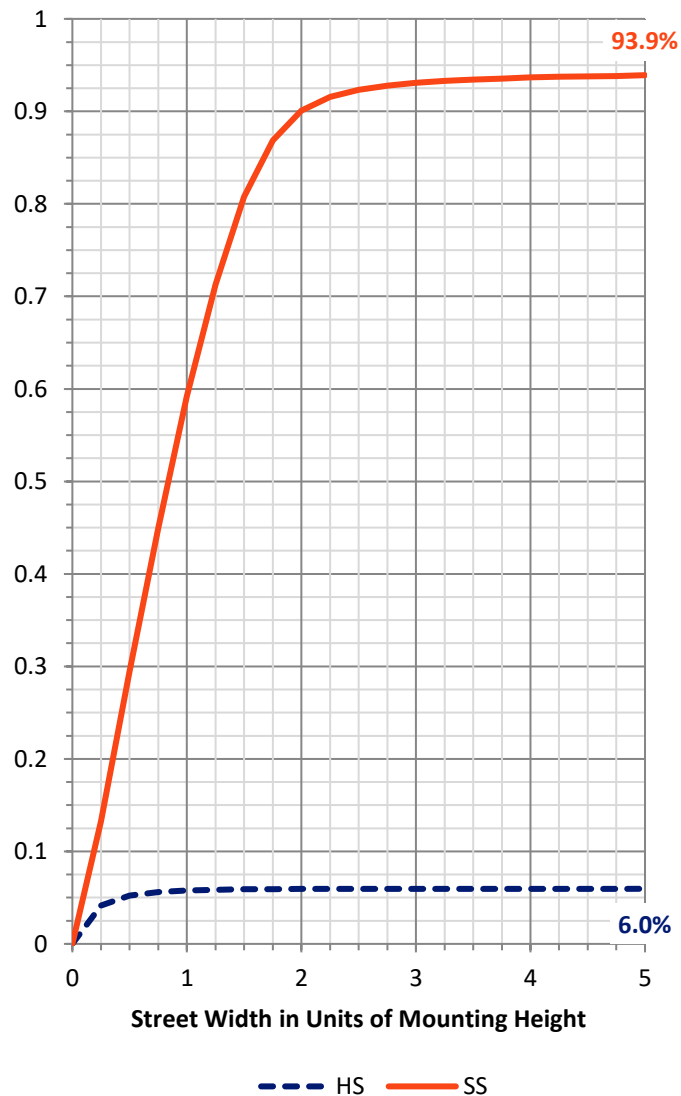
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1117.0	0.0	1117.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	17504.0	0.0	17504.0
	% Fixture	94.0	0.0	94.0
Total	Lumens	18621.0	0.0	18621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	1.1
10°-20°	609.6	3.3
20°-30°	1061.6	5.7
30°-40°	1862.6	10.0
40°-50°	3117.7	16.7
50°-60°	4582.8	24.6
60°-70°	4705.3	25.3
70°-80°	2322.9	12.5
80°-90°	153.6	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°	18621.0	100.0
0°-180°	18621.0	100.0

Coefficient of Utilization



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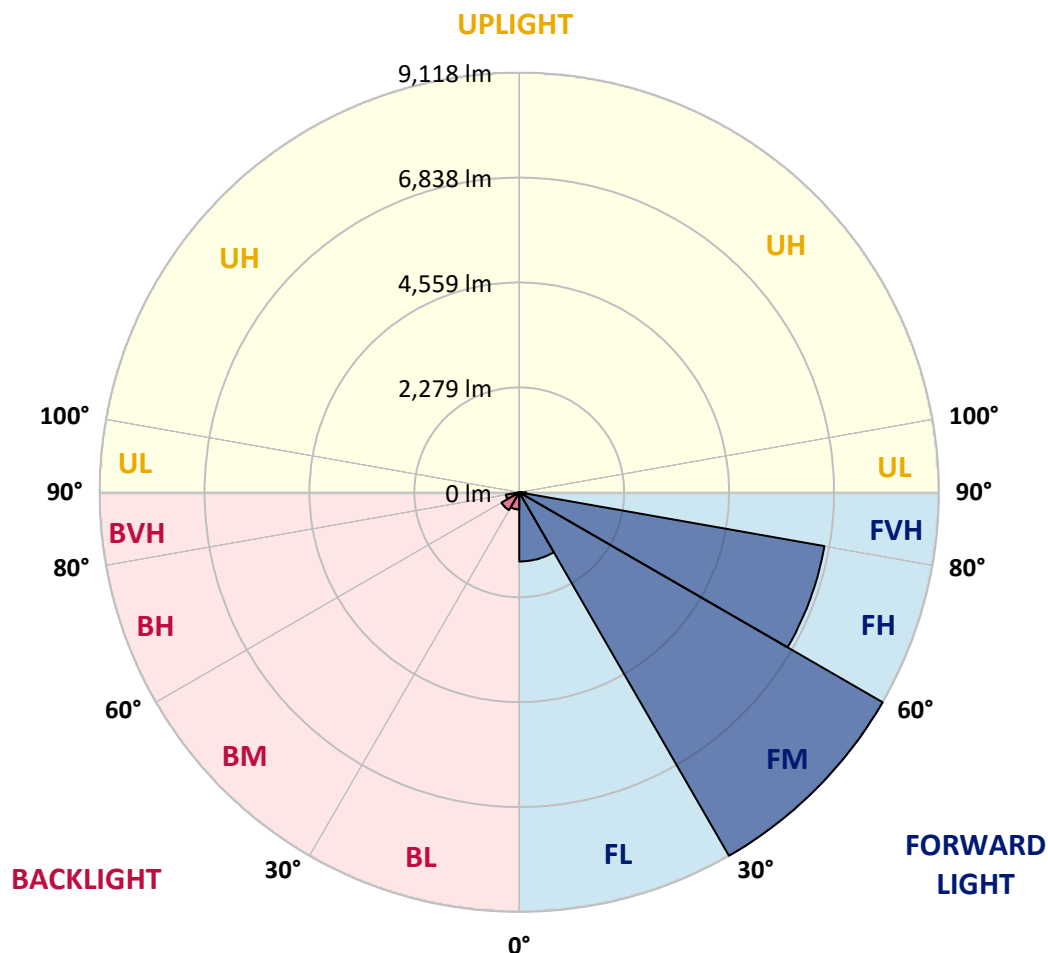
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1502.5	8.1			
FM	(30°-60°)	9117.7	49.0			
FH	(60°-80°)	6733.9	36.2			G3/7500
FVH	(80°-90°)	149.9	0.8			G2/225
BL	(0°-30°)	373.6	2.0	B1/500		
BM	(30°-60°)	445.3	2.4	B1/1000		
BH	(60°-80°)	294.4	1.6	B1/500		G1/500
BVH	(80°-90°)	3.7	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°	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1
2.5°	2494.1	2483.5	2479.1	2459.6	2426.0	2400.4	2350.9	2293.4	2282.8	2227.0	2158.9
5°	2817.8	2809.0	2802.8	2775.4	2740.9	2676.3	2586.1	2479.1	2458.8	2352.6	2216.4
7.5°	3043.4	3059.3	3059.3	3041.6	2998.3	2949.6	2839.1	2693.1	2667.5	2504.7	2293.4
10°	3175.2	3194.6	3209.6	3224.7	3218.5	3199.0	3094.7	2930.2	2899.2	2683.4	2382.7
12.5°	3187.5	3207.0	3249.4	3312.2	3373.3	3417.5	3352.0	3192.8	3157.5	2890.4	2488.8
15°	3118.6	3138.9	3204.3	3326.4	3474.1	3603.2	3624.5	3483.8	3447.6	3137.1	2621.5
17.5°	2998.3	3011.5	3105.3	3274.2	3505.9	3743.0	3871.2	3796.0	3762.4	3419.3	2769.2
20°	2908.9	2918.7	3000.9	3182.2	3486.5	3830.5	4104.7	4127.7	4092.3	3721.7	2929.3
22.5°	3061.9	3079.6	3082.3	3168.1	3433.4	3873.9	4309.9	4454.1	4427.5	4042.8	3086.7
25°	3480.3	3500.6	3433.4	3380.3	3478.5	3893.3	4485.9	4788.4	4767.2	4388.6	3245.0
27.5°	4033.1	4054.3	3967.6	3809.3	3714.7	3966.7	4642.5	5128.0	5127.1	4754.8	3415.7
30°	4576.1	4597.3	4508.9	4350.6	4133.0	4174.6	4777.8	5483.6	5488.9	5132.4	3597.0
32.5°	5145.7	5172.2	5081.1	4877.7	4650.4	4533.7	4967.9	5840.9	5870.9	5570.2	3801.3
35°	5793.1	5796.7	5668.4	5455.3	5193.5	5013.9	5273.1	6241.5	6313.2	6112.4	4060.5
37.5°	6428.1	6453.8	6348.5	6012.5	5771.9	5568.5	5726.8	6742.1	6843.8	6774.8	4399.2
40°	6898.7	6952.6	6937.6	6575.0	6346.8	6201.7	6290.2	7337.4	7466.5	7546.1	4826.4
42.5°	7194.1	7234.8	7303.7	7085.3	6878.3	6902.2	6955.3	8030.8	8190.0	8425.2	5317.3
45°	7532.8	7552.3	7609.8	7513.4	7373.6	7614.2	7661.1	8811.7	8978.9	9370.7	5862.1
47.5°	7946.7	7992.7	8008.6	7920.2	7856.5	8243.9	8341.2	9521.9	9756.3	10383.4	6438.8
50°	8473.9	8486.2	8513.7	8456.2	8392.5	8785.2	8951.5	10267.5	10480.7	11399.6	7007.5
52.5°	8989.5	9033.7	9129.2	9093.0	9067.3	9246.0	9495.4	10939.7	11177.6	12246.9	7575.3
55°	9138.1	9176.1	9506.0	9731.5	9940.3	9813.8	10015.5	11542.0	11799.4	13004.0	8121.9
57.5°	8544.6	8621.6	9192.9	9780.2	10646.1	10696.5	10730.1	12160.2	12391.1	13584.2	8690.6
60°	7044.6	7059.6	7997.1	9004.5	10529.3	11466.8	11773.7	12824.4	13018.1	14124.6	9371.6
62.5°	4480.6	4633.6	5662.2	7084.4	9294.6	11355.4	13035.8	13829.2	13899.9	14772.9	10348.0
65°	2134.2	2233.2	2974.4	4377.1	6732.4	9928.8	13907.0	15646.7	15678.6	16058.0	11652.6
67.5°	1181.6	1229.4	1582.3	2356.2	3935.8	7021.6	13555.0	17799.5	17829.5	17370.5	12797.0
69°	924.2	964.9	1242.6	1776.0	2668.4	5046.6	12266.4	18430.1	18519.4	17746.4	12837.7
70°	784.5	824.3	1070.2	1500.0	2145.7	3899.5	10918.5	18273.5	18368.1	17711.0	12534.4
72.5°	480.3	503.2	712.9	1056.0	1438.1	1961.7	6733.3	15453.9	15614.0	16246.4	10772.5
75°	323.7	336.1	445.8	728.8	1028.6	1010.0	3498.0	10892.8	11239.5	12637.8	7956.5
77.5°	231.7	243.2	298.9	471.4	720.8	666.9	1584.0	6769.5	6843.8	7579.7	4339.1
80°	131.8	142.4	211.4	280.4	489.1	444.9	629.7	3233.5	3270.7	3250.3	1448.7
82.5°	69.0	77.8	115.9	184.8	314.0	291.0	261.8	1082.6	1087.9	904.8	317.5
85°	13.3	15.9	57.5	126.5	161.9	126.5	107.0	253.8	259.1	229.1	78.7
87.5°	0.0	0.9	23.0	28.3	31.8	32.7	34.5	49.5	53.1	71.6	21.2
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°	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1	2119.1
2.5°	2128.9	2097.0	2036.0	1965.2	1910.4	1856.4	1814.0	1769.8	1753.9	1745.9	1745.0
5°	2150.1	2082.9	1953.7	1821.1	1712.3	1609.7	1536.3	1466.4	1433.7	1418.6	1412.5
7.5°	2185.5	2077.6	1869.7	1667.2	1510.6	1382.4	1280.7	1204.6	1166.6	1150.7	1144.5
10°	2227.0	2070.5	1771.5	1504.4	1304.6	1171.9	1071.1	995.9	954.3	936.6	927.8
12.5°	2275.7	2058.1	1658.3	1339.9	1128.6	995.9	873.8	781.0	733.2	712.9	703.1
15°	2335.8	2045.7	1539.8	1185.2	973.8	811.9	678.4	615.6	605.8	602.3	603.2
17.5°	2395.1	2026.3	1410.7	1032.1	811.0	634.1	566.0	562.5	564.3	564.3	564.3
20°	2448.1	1982.0	1270.1	901.2	656.3	535.1	520.9	514.7	510.3	506.8	502.4
22.5°	2489.7	1922.8	1134.7	771.2	536.0	490.0	467.9	448.4	432.5	421.9	416.6
25°	2518.0	1844.1	1010.9	646.5	482.0	445.8	406.0	373.2	348.5	333.4	327.2
27.5°	2539.2	1759.2	900.4	541.3	444.9	394.5	342.3	303.4	277.7	264.4	259.1
30°	2554.3	1662.8	803.1	475.8	403.3	340.5	284.8	246.8	228.2	221.1	217.6
32.5°	2568.4	1555.7	711.1	444.9	364.4	291.0	238.8	209.6	198.1	189.3	186.6
35°	2603.8	1456.7	623.5	412.2	324.6	248.5	205.2	184.0	172.5	167.2	165.4
37.5°	2687.8	1383.3	539.5	378.5	284.8	214.9	179.5	164.5	153.9	148.6	146.8
40°	2823.1	1346.1	468.8	342.3	245.9	189.3	162.7	148.6	137.1	129.1	127.4
42.5°	3022.1	1351.4	419.2	306.0	214.9	168.9	146.8	130.0	117.6	110.6	108.8
45°	3263.6	1390.3	384.7	270.6	189.3	153.0	129.1	111.4	99.9	93.8	92.0
47.5°	3525.4	1453.1	356.4	238.8	168.9	138.0	111.4	92.9	83.1	77.8	76.9
50°	3801.3	1514.2	327.2	207.8	151.2	122.9	93.8	76.9	69.0	64.6	62.8
52.5°	4080.8	1584.9	300.7	179.5	136.2	105.2	77.8	62.8	56.6	53.1	51.3
55°	4381.5	1638.0	275.1	157.4	121.2	89.3	64.6	52.2	46.9	42.5	41.6
57.5°	4735.3	1720.2	248.5	136.2	103.5	74.3	53.1	41.6	37.1	32.7	31.8
60°	5212.9	1816.6	220.2	120.3	84.9	61.0	43.3	33.6	28.3	24.8	23.9
62.5°	5842.6	1923.7	184.8	105.2	69.0	49.5	34.5	26.5	20.3	15.9	15.9
65°	6641.3	2097.9	151.2	88.4	56.6	40.7	26.5	19.5	11.5	7.1	7.1
67.5°	7107.4	2128.0	122.1	72.5	46.0	34.5	22.1	13.3	3.5	0.9	0.0
69°	6957.9	1953.7	103.5	61.9	39.8	32.7	20.3	9.7	1.8	0.0	0.0
70°	6676.7	1786.6	91.1	54.8	36.3	31.0	19.5	7.1	1.8	0.0	0.0
72.5°	5517.2	1271.8	69.0	40.7	26.5	27.4	17.7	4.4	1.8	0.0	0.0
75°	4018.9	773.0	49.5	28.3	16.8	20.3	12.4	1.8	0.9	0.0	0.0
77.5°	2235.9	364.4	31.0	15.9	10.6	12.4	6.2	0.0	0.0	0.0	0.0
80°	726.1	99.1	14.2	8.8	6.2	7.1	2.7	0.0	0.0	0.0	0.0
82.5°	134.4	28.3	8.0	4.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0
85°	29.2	11.5	4.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.5	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)