

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: P318863

Luminaire Tested: **GAN-SA9D-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318863
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-SA9D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 51299 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

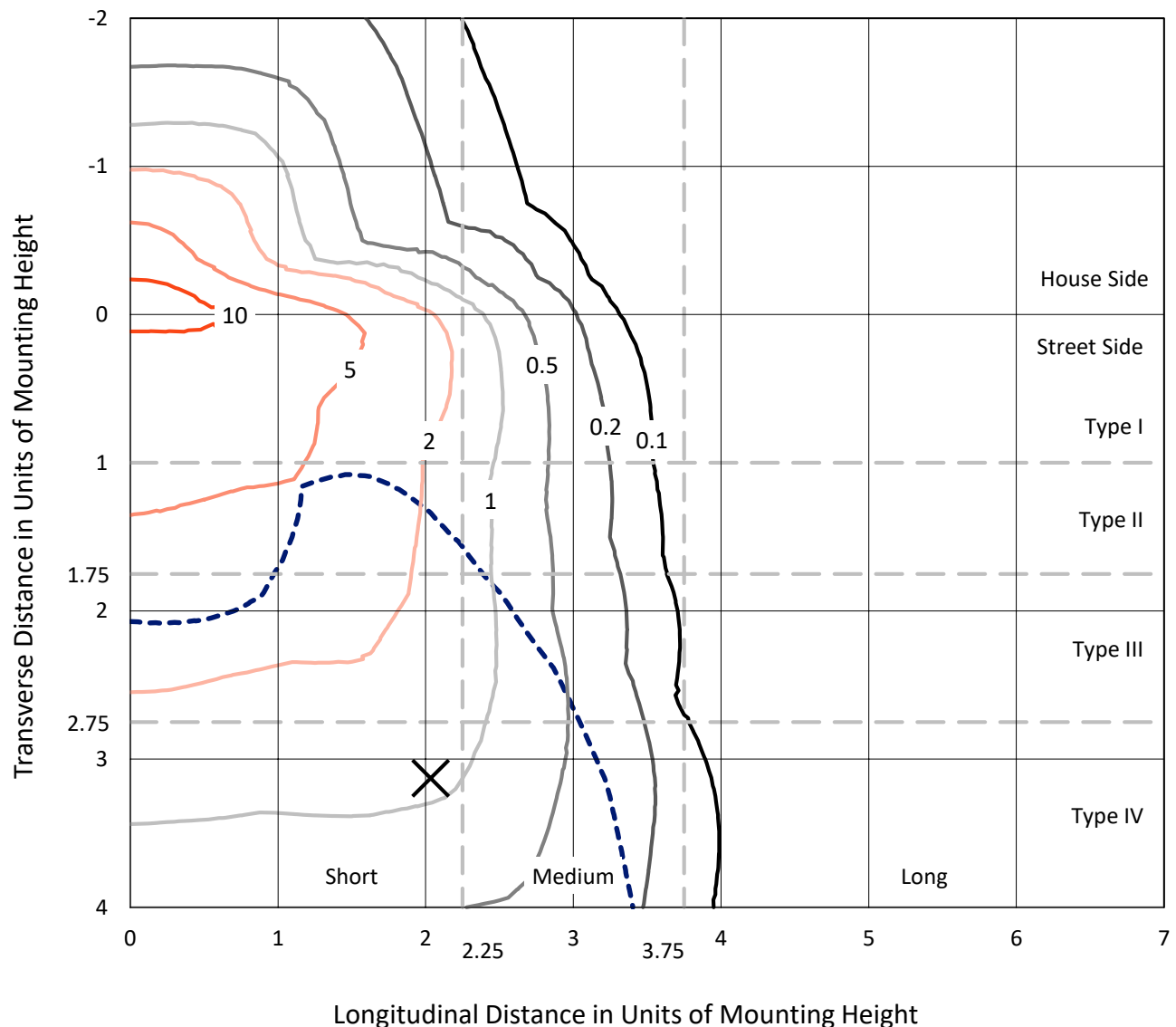
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

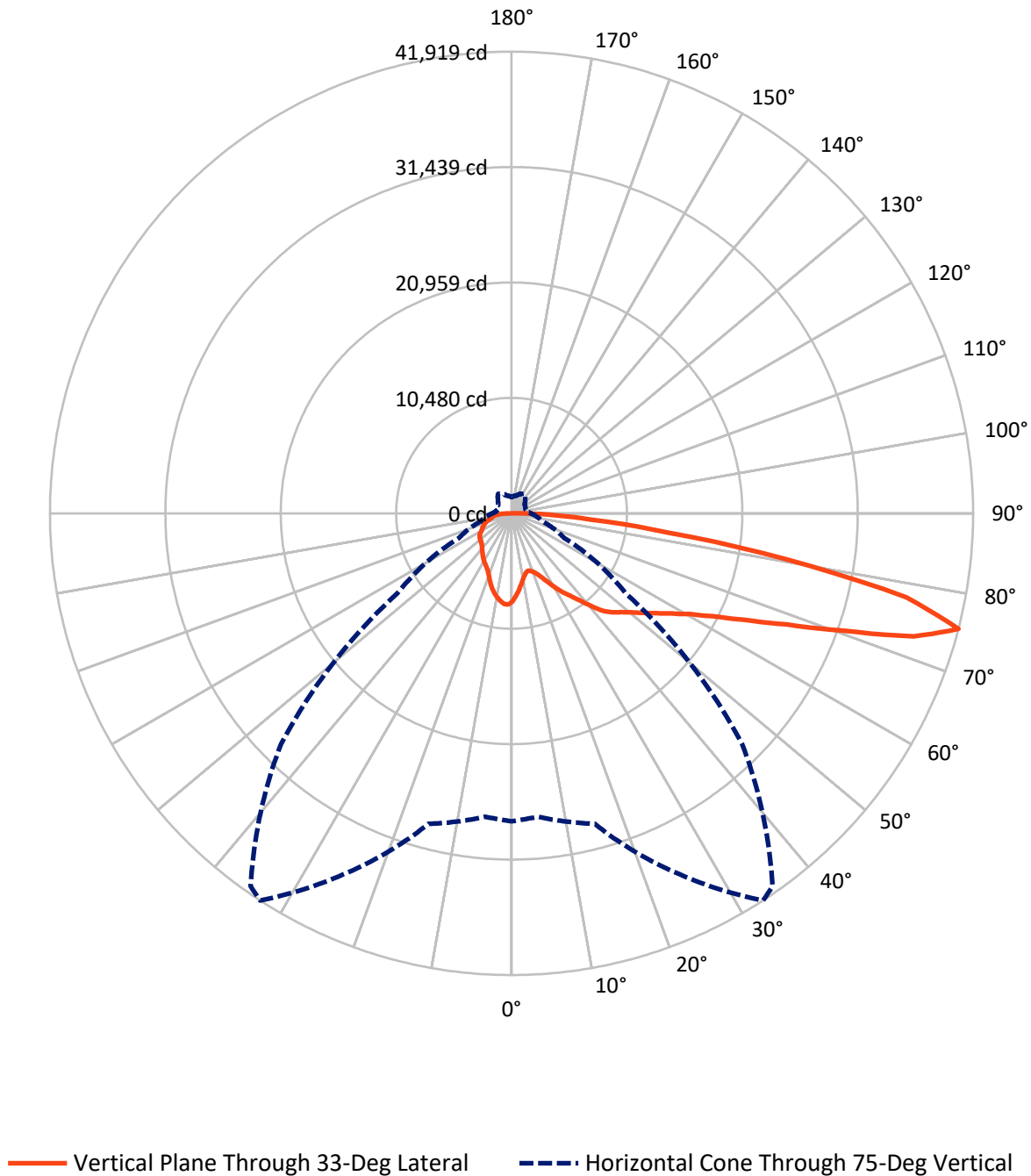
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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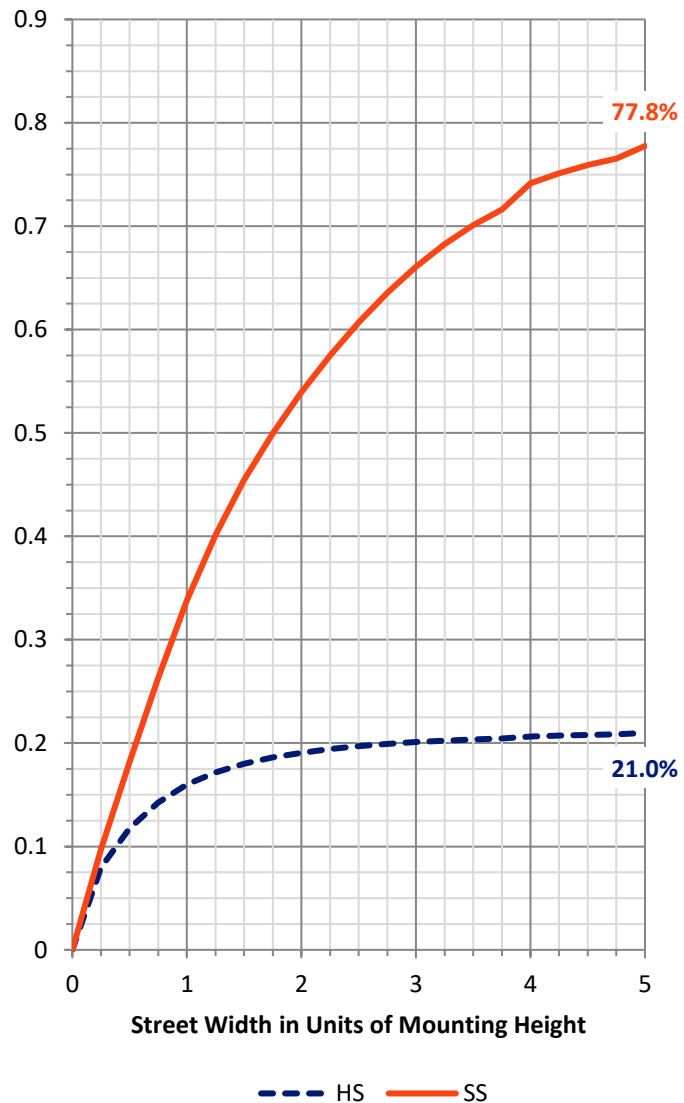
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11015.2	0.0	11015.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	40283.8	0.0	40283.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	51299.0	0.0	51299.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.2	1.4
10°-20°	1964.0	3.8
20°-30°	3207.6	6.3
30°-40°	4776.8	9.3
40°-50°	6851.2	13.4
50°-60°	9405.7	18.3
60°-70°	11775.5	23.0
70°-80°	10652.7	20.8
80°-90°	1940.4	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°	51299.0	100.0
0°-180°	51299.0	100.0

Coefficient of Utilization



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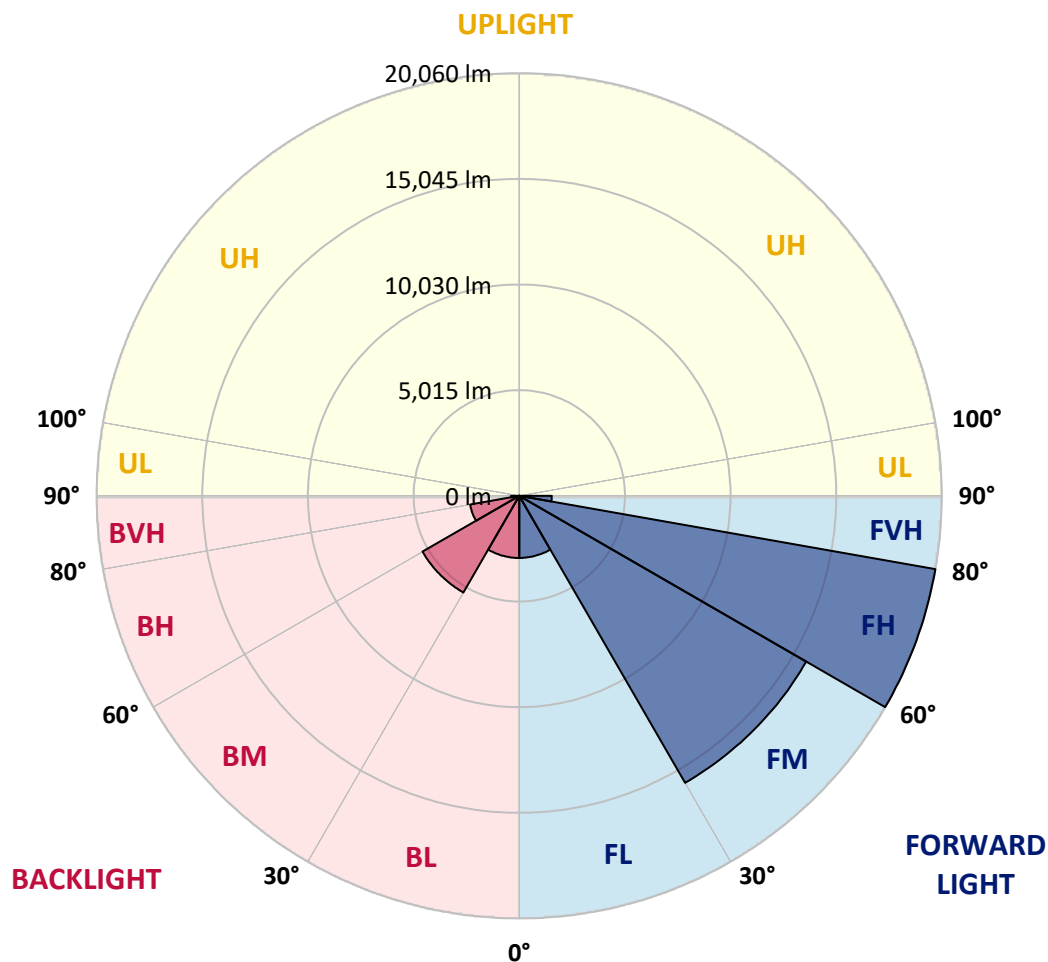
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2946.3	5.7			
FM	(30°-60°)	15732.3	30.7			
FH	(60°-80°)	20059.7	39.1			G5
FVH	(80°-90°)	1545.4	3.0			G5
BL	(0°-30°)	2950.4	5.8	B4/5000		
BM	(30°-60°)	5301.3	10.3	B4/8500		
BH	(60°-80°)	2368.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	395.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3
2.5°	7446.0	7417.6	7470.8	7477.9	7523.9	7541.7	7605.4	7704.7	7786.2	7880.1	7965.2
5°	6770.8	6751.3	6825.8	6878.9	6979.9	7022.5	7173.1	7383.9	7571.8	7784.4	7977.6
7.5°	6129.4	6118.7	6202.0	6322.5	6439.5	6497.9	6758.4	7065.0	7378.6	7722.4	8018.3
10°	5588.9	5585.4	5665.1	5783.8	5955.7	6021.3	6358.0	6762.0	7201.4	7674.6	8087.4
12.5°	5285.9	5298.3	5335.5	5434.7	5594.2	5659.8	6033.7	6508.6	7052.6	7658.6	8188.4
15°	5360.3	5379.8	5316.0	5312.5	5425.9	5477.3	5828.1	6327.8	6946.3	7685.2	8335.5
17.5°	5677.5	5681.0	5512.7	5406.4	5475.5	5502.1	5764.3	6225.1	6884.2	7745.4	8519.8
20°	6124.0	6115.2	5817.5	5640.3	5677.5	5684.6	5854.7	6226.8	6878.9	7850.0	8759.0
22.5°	6715.9	6650.3	6249.9	6008.9	6000.0	5989.4	6086.8	6358.0	6956.9	8020.1	9044.3
25°	7488.5	7426.5	6875.4	6545.8	6474.9	6448.3	6462.5	6637.9	7111.1	8202.6	9363.3
27.5°	8347.9	8239.8	7708.2	7242.2	7095.1	7057.9	6972.8	7033.1	7279.4	8378.0	9742.5
30°	9067.3	9008.9	8544.6	7991.7	7818.1	7764.9	7541.7	7476.1	7522.2	8617.3	10220.9
32.5°	9469.6	9430.6	9148.9	8702.3	8541.1	8466.6	8151.2	8020.1	7912.0	8994.7	10869.5
35°	9956.9	9932.1	9762.0	9437.7	9198.5	9120.5	8876.0	8739.5	8461.3	9513.9	11707.6
37.5°	10577.1	10550.5	10554.1	10291.8	10006.5	9933.9	9772.6	9629.1	9173.7	10196.1	12618.4
40°	11278.8	11227.4	11207.9	11195.5	11014.8	10974.0	10889.0	10694.0	10066.8	11011.2	13516.9
42.5°	12334.9	12152.4	11762.6	11909.6	12088.6	12067.4	12136.5	11856.5	11059.1	11975.2	14394.0
45°	13353.8	13054.4	12381.0	12412.9	12804.5	12923.2	13440.7	13242.2	12134.7	13031.3	15301.3
47.5°	13818.1	13591.3	13018.9	13020.7	13408.8	13655.1	14789.2	14647.4	13265.2	14231.0	16408.8
50°	14337.3	14110.5	13596.6	13789.7	14128.2	14390.5	16091.6	16018.9	14340.8	15544.0	17736.0
52.5°	14904.3	14519.8	14193.8	14539.3	15014.2	15319.0	17395.8	17197.3	15327.8	16865.9	19261.7
55°	14911.4	14806.9	15055.0	15308.3	16018.9	16392.8	18762.0	18237.5	16132.3	18164.8	20503.9
57.5°	15760.2	15590.1	16116.4	16233.3	17161.9	17583.6	20121.1	19143.0	16951.0	19160.7	21173.7
60°	16883.7	16738.4	17169.0	17477.3	18575.9	19139.4	21572.4	20073.3	17594.2	19912.0	21141.8
62.5°	18824.0	18659.2	18653.9	19086.3	20565.9	21221.5	23200.9	20985.9	17849.4	20060.9	20239.8
65°	21664.5	21402.3	20907.9	21113.4	23314.3	23968.1	25020.7	21646.8	17512.7	19263.5	17916.7
67.5°	24428.9	24420.0	23812.2	24233.9	26943.3	27467.8	27094.0	21712.4	16461.9	16486.7	13795.1
70°	27184.3	27219.8	27117.0	28584.2	31846.5	32392.2	29301.9	20831.7	14099.8	11906.1	8264.6
72.5°	29367.4	29358.6	29876.0	33659.2	38209.7	38087.5	31162.5	18163.0	10123.5	6427.1	3949.8
75°	27953.4	27645.0	29186.7	36171.9	41918.5	41321.4	29580.1	12669.8	5254.0	2925.6	2126.4
77.5°	18232.2	18524.5	20787.4	29881.3	36666.3	35939.8	21701.7	5911.4	2475.5	1919.1	1541.6
80°	6602.5	6910.8	9733.6	16926.2	25261.7	25143.0	10687.0	2429.4	1674.5	1449.5	1123.5
82.5°	2271.7	2385.1	3839.9	7516.8	14262.9	14794.5	4020.7	1380.4	1217.4	1027.8	769.1
85°	891.3	1020.7	1756.1	3616.7	7194.3	7247.5	1628.5	825.8	847.0	673.4	421.7
87.5°	338.5	411.1	839.9	1679.9	3285.3	3017.7	583.0	393.4	482.0	400.5	200.2
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°	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3	8018.3
2.5°	8030.7	8067.9	8145.9	8199.1	8255.8	8271.7	8278.8	8293.0	8307.2	8301.8	8303.6
5°	8080.3	8153.0	8278.8	8332.0	8356.8	8328.4	8273.5	8229.2	8197.3	8179.6	8174.3
7.5°	8161.9	8264.6	8399.3	8390.4	8333.7	8207.9	8066.2	7959.8	7871.2	7839.3	7821.6
10°	8269.9	8390.4	8484.4	8383.4	8218.6	8000.6	7788.0	7623.2	7490.3	7438.9	7430.0
12.5°	8408.2	8530.4	8548.2	8333.7	8060.8	7763.2	7474.3	7256.4	7057.9	6994.1	6979.9
15°	8587.1	8702.3	8592.5	8246.9	7865.9	7465.5	7091.6	6795.6	6586.5	6508.6	6480.2
17.5°	8775.0	8884.8	8601.3	8103.4	7610.8	7112.8	6643.2	6340.2	6101.0	6010.6	6000.0
20°	9000.0	9049.6	8564.1	7897.8	7259.9	6655.6	6161.3	5876.0	5748.4	5684.6	5677.5
22.5°	9278.2	9225.1	8479.0	7619.6	6815.1	6127.6	5725.3	5592.4	5560.6	5546.4	5551.7
25°	9572.4	9409.3	8353.2	7256.4	6253.4	5599.5	5406.4	5443.6	5486.1	5480.8	5480.8
27.5°	9896.6	9597.2	8160.1	6774.4	5631.4	5167.2	5190.2	5326.6	5390.4	5388.7	5386.9
30°	10313.1	9809.8	7913.8	6194.9	5050.2	4862.4	5002.4	5168.9	5255.8	5252.2	5254.0
32.5°	10825.2	10043.7	7578.9	5548.1	4630.2	4637.3	4798.6	4963.4	5064.4	5055.5	5057.3
35°	11424.1	10306.0	7125.2	4910.2	4352.0	4458.4	4585.9	4701.1	4796.8	4784.4	4772.0
37.5°	12076.2	10562.9	6522.7	4339.6	4125.2	4291.8	4398.1	4417.6	4461.9	4430.0	4407.0
40°	12696.4	10759.6	5746.6	3871.8	3896.6	4150.0	4219.1	4141.2	4061.4	4050.8	4018.9
42.5°	13236.9	10825.2	4961.6	3497.9	3655.6	4001.2	4043.7	3880.7	3737.2	3669.8	3641.5
45°	13807.5	10848.2	4229.8	3184.3	3423.5	3868.3	3914.4	3696.4	3494.4	3349.1	3301.2
47.5°	14553.5	11014.8	3661.0	2952.2	3246.3	3779.7	3845.3	3549.3	3287.1	3079.7	3035.4
50°	15529.8	11344.4	3198.5	2775.0	3131.1	3721.2	3795.6	3405.8	3117.0	2867.1	2822.8
52.5°	16614.3	11647.4	2824.6	2631.4	3019.5	3618.4	3731.8	3303.0	2957.5	2670.4	2622.6
55°	17372.7	11415.3	2523.3	2482.6	2874.2	3471.4	3643.2	3216.2	2728.9	2479.0	2436.5
57.5°	17518.0	10621.4	2294.7	2328.4	2698.8	3287.1	3506.8	3023.0	2604.8	2395.8	2351.5
60°	17121.1	9515.7	2124.6	2186.7	2510.9	3054.9	3251.6	2886.6	2486.1	2307.2	2269.9
62.5°	16123.5	8383.4	1998.8	2059.1	2335.5	2819.3	3092.1	2743.1	2365.6	2206.1	2168.9
65°	14108.7	7038.4	1878.3	1945.7	2172.5	2615.5	2948.6	2610.2	2246.9	2124.6	2089.2
67.5°	10649.7	5271.7	1764.9	1825.2	2027.2	2438.3	2792.7	2479.0	2131.7	2053.8	2011.2
70°	6271.1	3301.2	1635.6	1699.4	1874.8	2254.0	2626.1	2335.5	1988.2	1952.7	1897.8
72.5°	2918.5	1986.4	1488.5	1550.5	1683.4	2007.7	2411.7	2147.7	1818.1	1740.1	1665.7
75°	1741.9	1453.0	1314.8	1369.8	1463.7	1745.4	2142.4	1956.3	1656.8	1554.0	1476.1
77.5°	1302.4	1111.0	1123.5	1181.9	1258.1	1527.5	1897.8	1805.7	1532.8	1453.0	1399.9
80°	937.4	843.5	916.1	979.9	1059.7	1389.3	1818.1	1669.2	1385.7	1279.4	1229.8
82.5°	625.5	606.0	689.3	754.9	832.8	1215.6	1708.2	1461.9	1183.7	1049.0	939.2
85°	345.5	365.0	464.3	492.6	560.0	855.9	1399.9	1174.8	891.3	717.7	685.8
87.5°	143.5	168.3	249.9	241.0	297.7	510.3	921.4	708.8	567.0	423.5	329.6
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)