

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: P322671

Luminaire Tested: **GAN-SA7A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17208 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

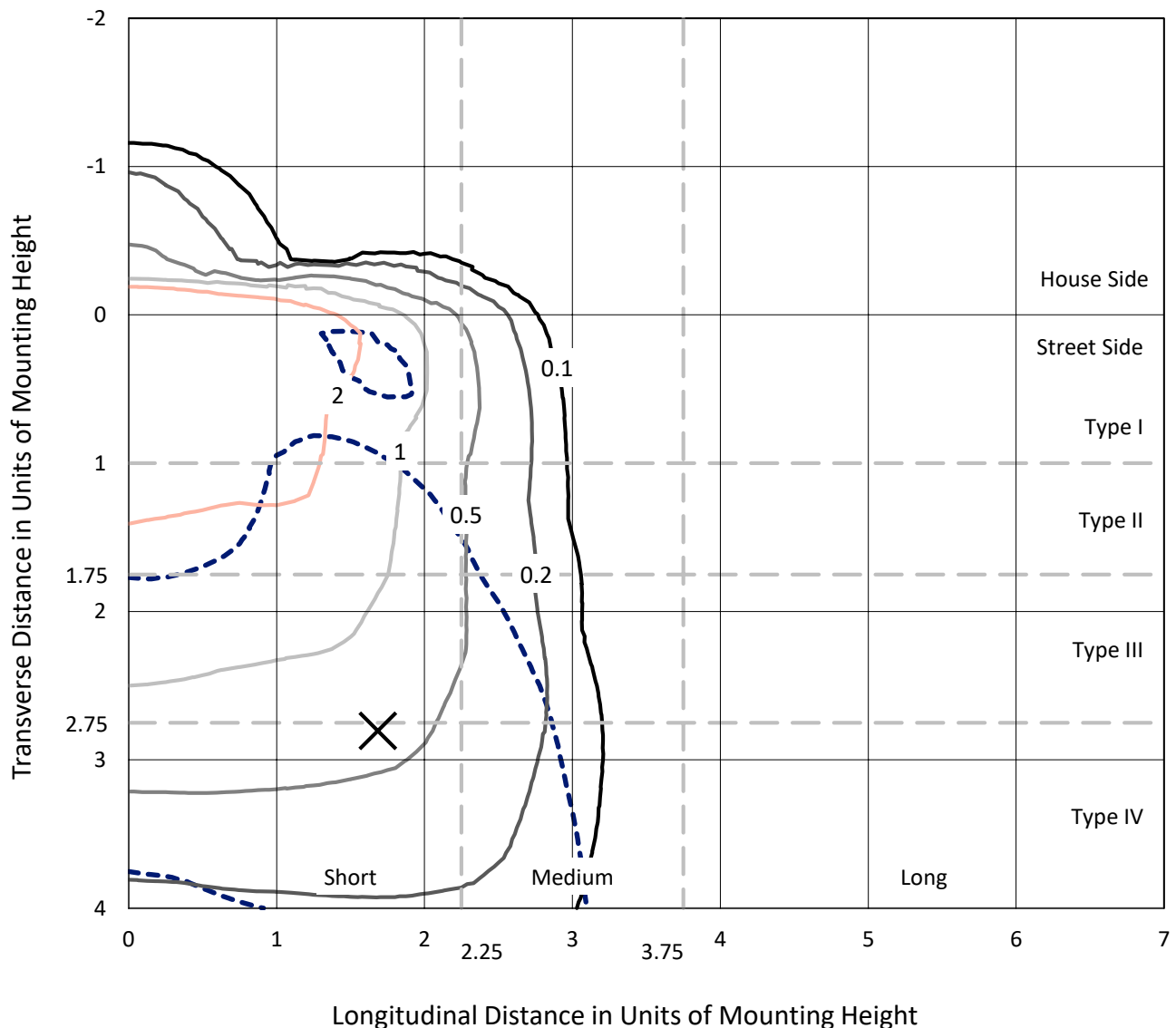
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

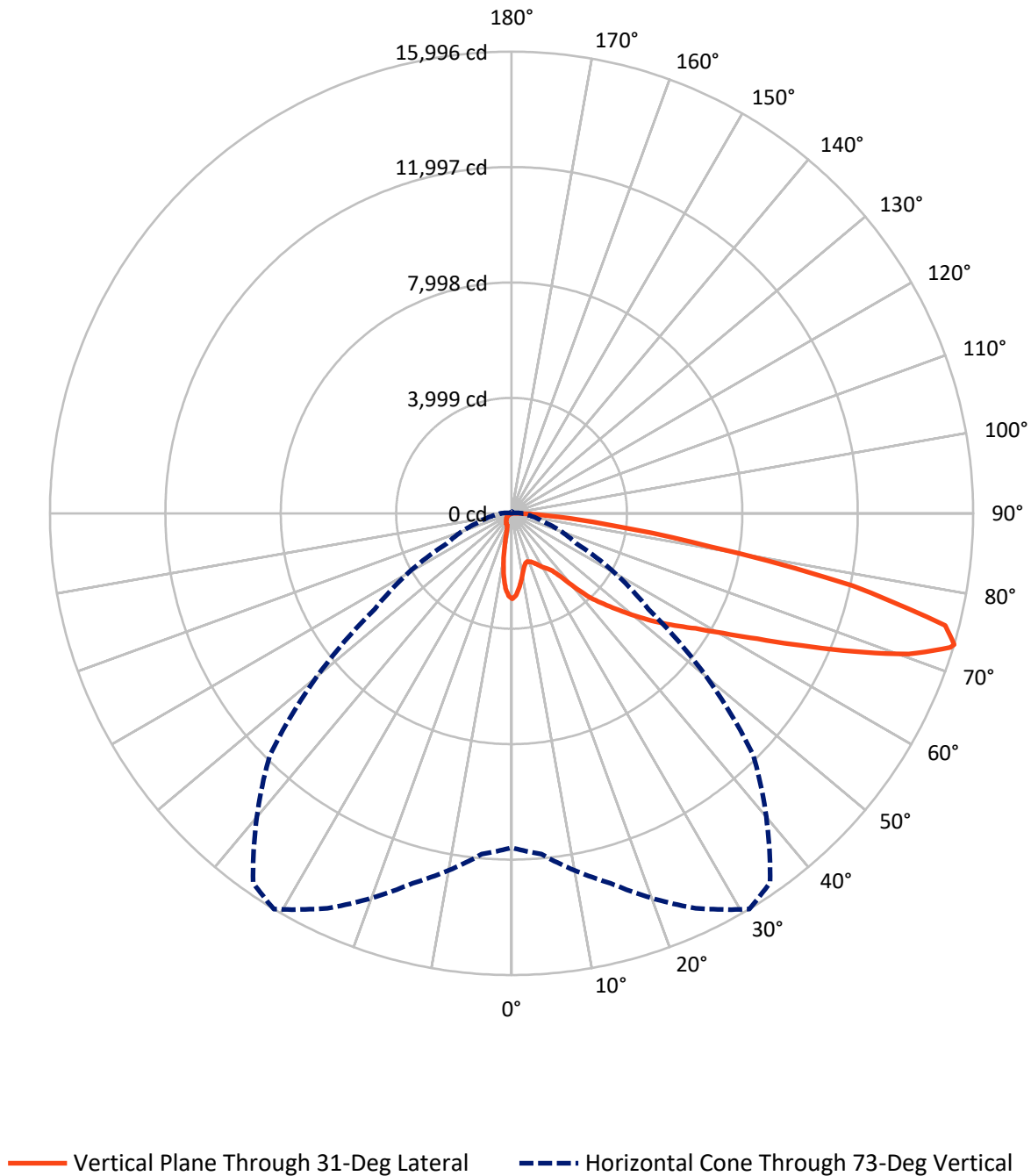
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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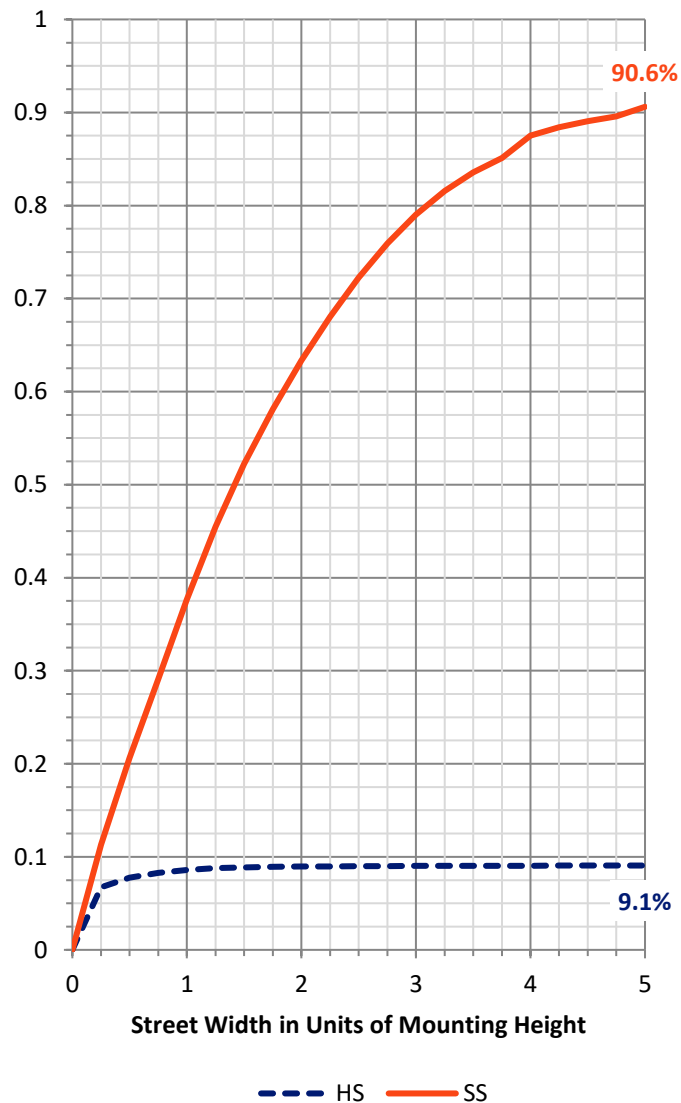
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1568.6	0.0	1568.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	15639.4	0.0	15639.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	17208.0	0.0	17208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.5	1.4
10°-20°	533.0	3.1
20°-30°	798.6	4.6
30°-40°	1270.6	7.4
40°-50°	2268.9	13.2
50°-60°	3520.7	20.5
60°-70°	4680.3	27.2
70°-80°	3520.5	20.5
80°-90°	369.9	2.1
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°	17208.0	100.0
0°-180°	17208.0	100.0

Coefficient of Utilization



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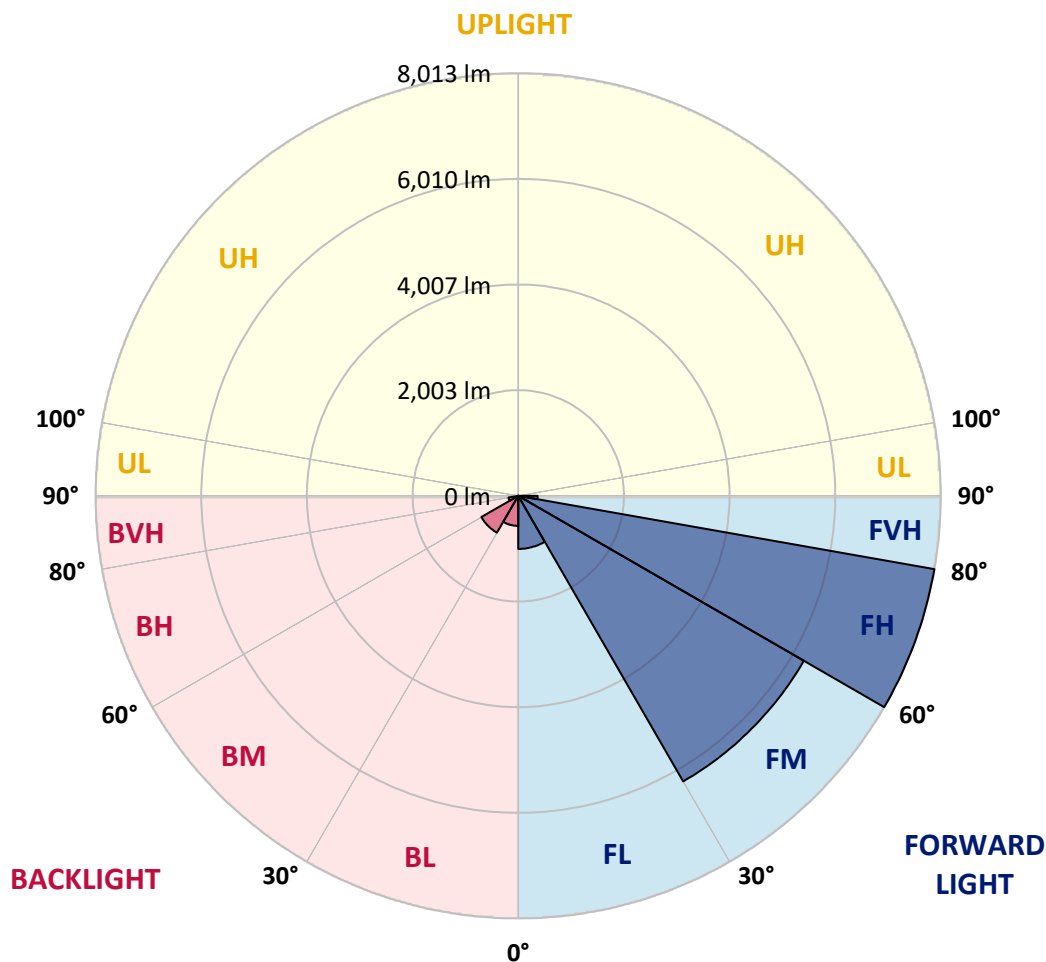
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1006.7	5.9			
FM	(30°-60°)	6252.8	36.3			
FH	(60°-80°)	8013.1	46.6			G4/12000
FVH	(80°-90°)	366.8	2.1			G3/500
BL	(0°-30°)	570.4	3.3	B2/1000		
BM	(30°-60°)	807.4	4.7	B1/1000		
BH	(60°-80°)	187.7	1.1	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7
2.5°	2805.7	2817.5	2830.2	2832.7	2853.7	2854.6	2884.9	2907.6	2930.4	2952.3	2959.8
5°	2517.7	2537.1	2559.9	2582.6	2627.2	2644.9	2719.0	2794.8	2867.2	2936.3	2969.9
7.5°	2210.4	2232.3	2264.3	2320.7	2370.4	2404.9	2522.0	2656.7	2791.4	2918.6	2991.8
10°	1930.0	1950.2	1983.9	2043.7	2120.3	2167.5	2324.9	2511.9	2709.7	2902.6	3024.7
12.5°	1751.5	1762.4	1781.0	1844.9	1914.0	1967.0	2152.3	2383.9	2642.4	2901.7	3077.7
15°	1718.6	1722.0	1706.8	1735.5	1789.4	1840.7	2028.5	2280.3	2591.0	2915.2	3146.8
17.5°	1770.8	1769.2	1718.6	1715.3	1758.2	1800.3	1967.9	2208.7	2554.8	2946.4	3236.0
20°	1850.0	1844.1	1756.5	1740.5	1786.0	1825.6	1963.7	2181.8	2541.3	2998.6	3344.6
22.5°	1955.3	1945.2	1807.9	1791.1	1839.9	1881.2	2015.9	2207.9	2553.1	3068.5	3471.0
25°	2085.8	2070.6	1896.3	1877.8	1927.5	1968.7	2109.4	2282.8	2588.5	3153.5	3630.9
27.5°	2233.1	2211.2	2037.8	1989.8	2046.2	2089.1	2234.0	2397.3	2644.1	3243.6	3827.1
30°	2372.1	2343.4	2186.8	2107.7	2176.7	2224.7	2368.7	2533.7	2733.3	3382.5	4095.8
32.5°	2511.9	2479.9	2319.9	2225.6	2287.9	2340.1	2507.6	2721.5	2900.9	3594.7	4452.8
35°	2833.5	2799.8	2603.6	2447.9	2447.0	2476.5	2702.2	2978.4	3122.3	3890.3	4878.9
37.5°	3375.0	3355.6	3168.7	2873.1	2793.9	2761.1	2967.4	3284.9	3440.6	4297.0	5359.7
40°	3967.8	3950.9	3741.3	3473.5	3353.1	3272.2	3348.0	3711.8	3890.3	4793.8	5850.6
42.5°	4637.2	4557.2	4183.3	4103.3	3995.6	3934.1	3865.9	4238.1	4442.7	5334.4	6337.3
45°	5245.2	5110.4	4625.4	4504.2	4479.7	4494.9	4532.8	4945.4	5064.1	5976.9	6822.3
47.5°	5607.3	5501.2	5129.0	5012.8	5006.0	5106.2	5392.5	5744.5	5683.0	6536.9	7249.3
50°	5951.7	5855.7	5546.6	5575.3	5606.4	5742.8	6368.5	6566.4	6248.1	7044.6	7640.8
52.5°	6230.4	6083.9	5922.2	6083.0	6236.3	6456.0	7375.6	7304.0	6648.9	7448.8	7976.0
55°	6391.2	6324.7	6403.0	6564.7	6852.7	7209.7	8326.3	7917.9	6941.9	7817.7	8199.1
57.5°	6980.7	6850.1	7005.9	7145.7	7521.3	8020.6	9140.5	8375.1	7153.3	8045.9	8250.5
60°	7693.9	7588.6	7680.4	7912.8	8419.7	9006.6	9901.7	8748.1	7263.6	8192.4	8117.4
62.5°	8829.0	8690.0	8632.8	8893.0	9564.9	10205.7	10479.4	9006.6	7239.2	8127.5	7661.0
65°	10349.7	10205.7	9949.7	10185.5	11040.2	11492.4	11125.3	9061.4	7070.8	7602.9	6507.4
67.5°	11907.5	11803.1	11584.2	11981.6	12753.0	12898.6	11808.2	8928.3	6528.5	6164.7	4597.6
70°	12936.5	12891.9	13034.2	13913.3	14601.3	14559.2	12434.7	8213.4	5088.5	3790.9	2274.4
72.5°	12194.7	12408.5	13459.4	15053.4	15893.8	15550.3	12113.0	6307.0	2908.5	1458.4	657.6
73°	11580.0	11853.6	13268.3	15096.4	15995.7	15619.3	11842.7	5789.1	2479.0	1151.1	498.5
75°	8056.0	8391.9	10984.6	14059.8	15519.1	14881.7	9871.4	3543.4	1148.6	510.3	201.3
77.5°	3911.4	4159.8	6048.5	10158.6	12069.2	11627.1	6145.3	1320.3	518.7	319.1	92.6
80°	1460.1	1623.5	2625.5	5170.2	6974.8	7157.5	2703.0	499.3	345.2	256.8	47.2
82.5°	382.3	426.1	968.4	2305.6	3574.5	3741.3	852.2	251.8	252.6	211.4	28.6
85°	122.1	139.8	302.3	1034.9	1684.1	1478.7	222.3	122.1	183.6	157.5	16.0
87.5°	15.2	19.4	96.0	243.4	371.3	206.3	34.5	36.2	78.3	87.6	9.3
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°	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7	2960.7
2.5°	2967.4	2963.2	2964.0	2942.1	2927.8	2899.2	2869.7	2856.3	2841.9	2836.0	2841.9
5°	2982.6	2975.0	2953.1	2885.7	2814.2	2721.5	2634.8	2569.1	2486.6	2463.9	2487.4
7.5°	3006.1	2991.0	2927.0	2789.7	2630.6	2453.8	2255.0	2110.2	1991.5	1914.8	1942.6
10°	3040.7	3012.0	2883.2	2650.0	2365.3	2052.1	1770.0	1550.2	1394.4	1330.4	1327.9
12.5°	3098.8	3044.9	2829.3	2468.1	2041.1	1623.5	1253.8	1015.5	889.2	807.5	805.8
15°	3162.8	3083.6	2761.1	2250.0	1663.9	1162.9	807.5	626.5	544.8	518.7	515.3
17.5°	3241.1	3128.2	2672.7	1981.4	1269.0	770.5	527.1	474.9	471.6	469.0	469.0
20°	3339.6	3181.3	2559.0	1674.0	900.2	514.5	448.0	451.3	453.0	449.7	450.5
22.5°	3454.1	3235.2	2423.4	1343.9	608.8	430.3	428.6	432.8	434.5	432.8	433.7
25°	3587.2	3297.5	2258.4	997.8	439.6	408.4	412.6	418.5	422.7	422.7	422.7
27.5°	3752.2	3373.3	2059.7	696.4	379.8	385.7	397.5	408.4	414.3	416.0	416.0
30°	3966.9	3467.6	1821.4	477.4	345.2	355.3	377.2	398.3	409.2	410.9	411.8
32.5°	4238.1	3573.7	1545.2	352.8	315.8	323.3	346.9	382.3	403.3	406.7	406.7
35°	4548.8	3696.6	1247.9	307.4	294.7	297.2	315.8	356.2	393.2	402.5	403.3
37.5°	4889.0	3817.9	949.0	287.1	277.0	277.0	290.5	325.0	368.8	397.5	400.8
40°	5206.4	3891.1	665.2	271.1	261.0	261.0	272.8	298.1	339.3	382.3	391.6
42.5°	5499.5	3916.4	463.1	256.0	245.9	248.4	258.5	278.7	309.9	352.8	361.2
45°	5800.9	3912.2	337.7	238.3	230.7	238.3	245.9	261.0	283.8	308.2	309.9
47.5°	6028.3	3876.8	267.8	221.5	216.4	226.5	233.2	243.4	256.0	254.3	254.3
50°	6241.3	3790.9	215.6	198.7	202.1	213.9	217.3	220.6	221.5	205.5	203.8
52.5°	6403.0	3657.1	172.6	174.3	187.8	199.6	196.2	191.1	182.7	163.4	160.0
55°	6456.9	3399.4	135.6	144.0	166.7	181.9	169.3	158.3	142.3	126.3	122.9
57.5°	6359.2	3066.8	110.3	112.0	140.6	153.3	138.9	126.3	108.6	95.2	92.6
60°	6152.1	2697.1	90.9	84.2	108.6	119.6	110.3	97.7	81.7	71.6	70.7
62.5°	5741.1	2303.0	74.9	65.7	82.5	91.8	85.9	76.6	63.2	56.4	55.6
65°	4877.2	1842.4	60.6	53.0	64.0	71.6	66.5	59.8	49.7	44.6	43.8
67.5°	3404.4	1245.4	49.7	43.8	50.5	56.4	52.2	48.8	39.6	38.7	39.6
70°	1642.0	600.4	41.3	35.4	39.6	43.8	42.1	39.6	37.9	43.8	50.5
72.5°	470.7	201.3	32.8	29.5	32.0	34.5	36.2	35.4	41.3	53.0	61.5
73°	362.1	162.5	31.2	27.8	30.3	33.7	35.4	34.5	42.1	53.9	61.5
75°	154.9	78.3	23.6	22.7	25.3	29.5	31.2	31.2	42.1	54.7	58.9
77.5°	69.9	42.1	15.2	17.7	21.9	23.6	26.1	26.1	33.7	42.1	42.1
80°	39.6	22.7	11.8	13.5	16.0	16.0	16.0	14.3	15.2	16.8	18.5
82.5°	25.3	15.2	9.3	10.9	10.1	8.4	6.7	6.7	5.9	6.7	8.4
85°	14.3	8.4	8.4	6.7	4.2	3.4	4.2	3.4	0.8	0.0	0.8
87.5°	8.4	5.1	2.5	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)