

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: P318842

Luminaire Tested: **GAN-SA8B-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318842
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-SA8B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 33870 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

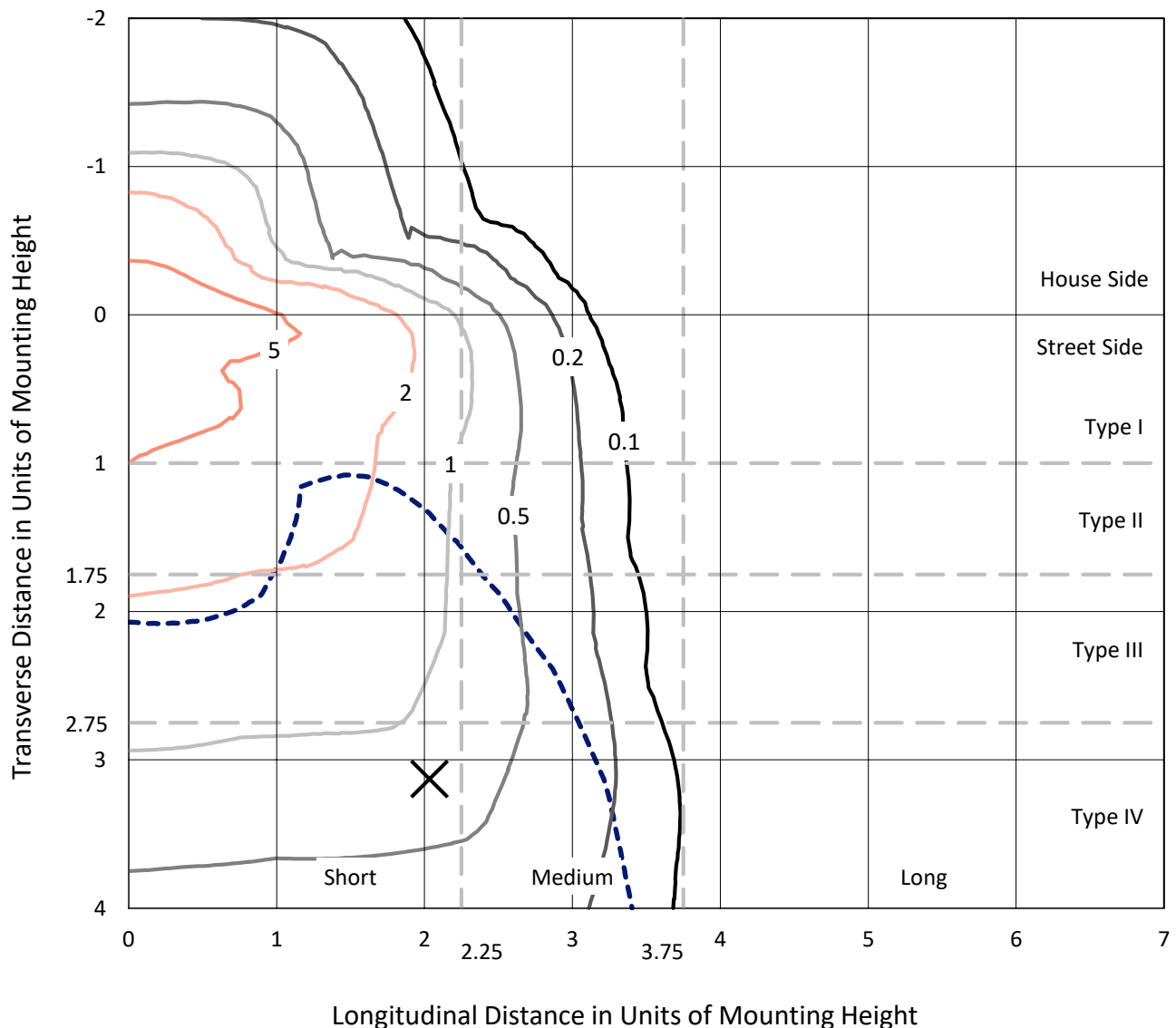
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

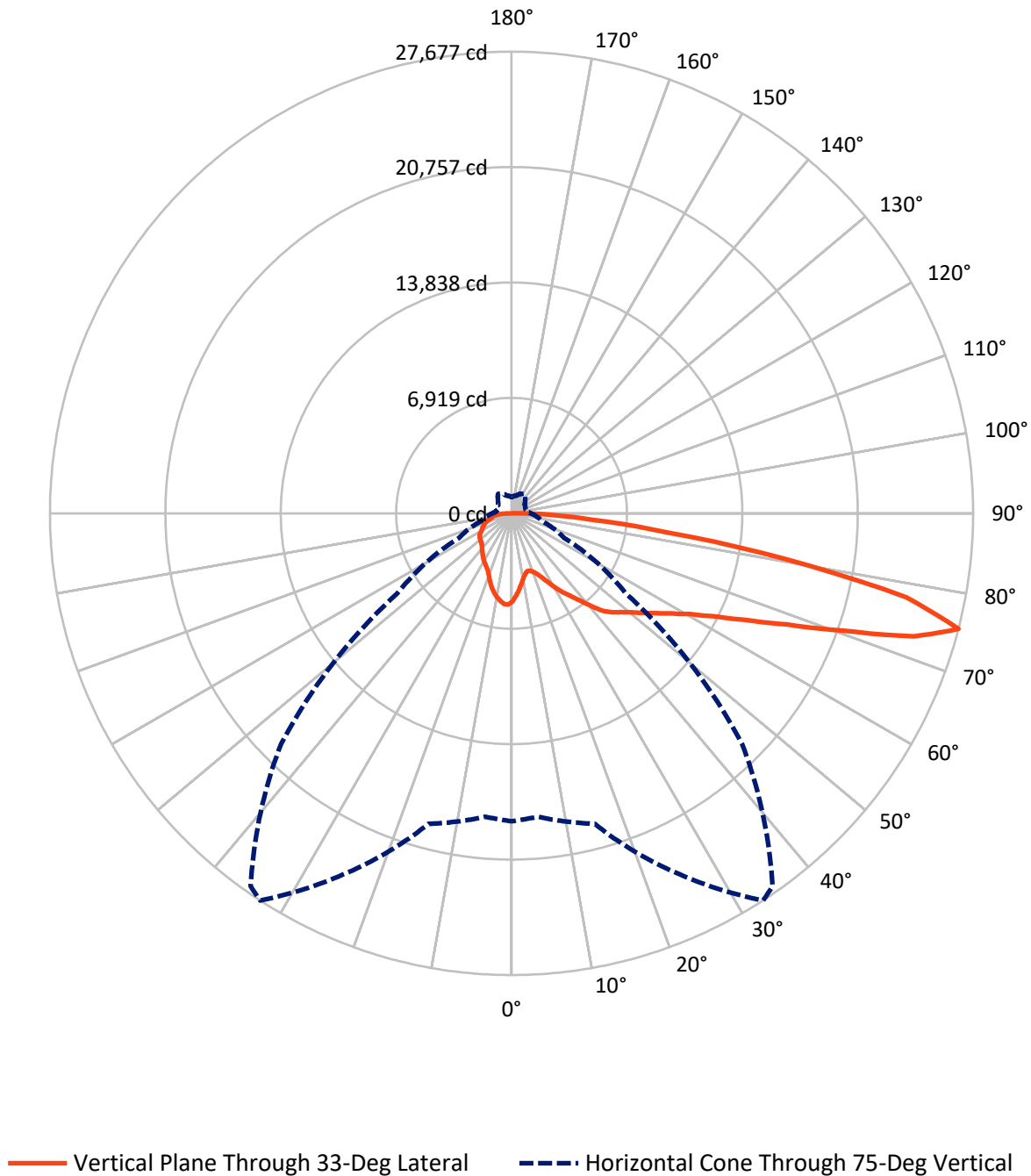
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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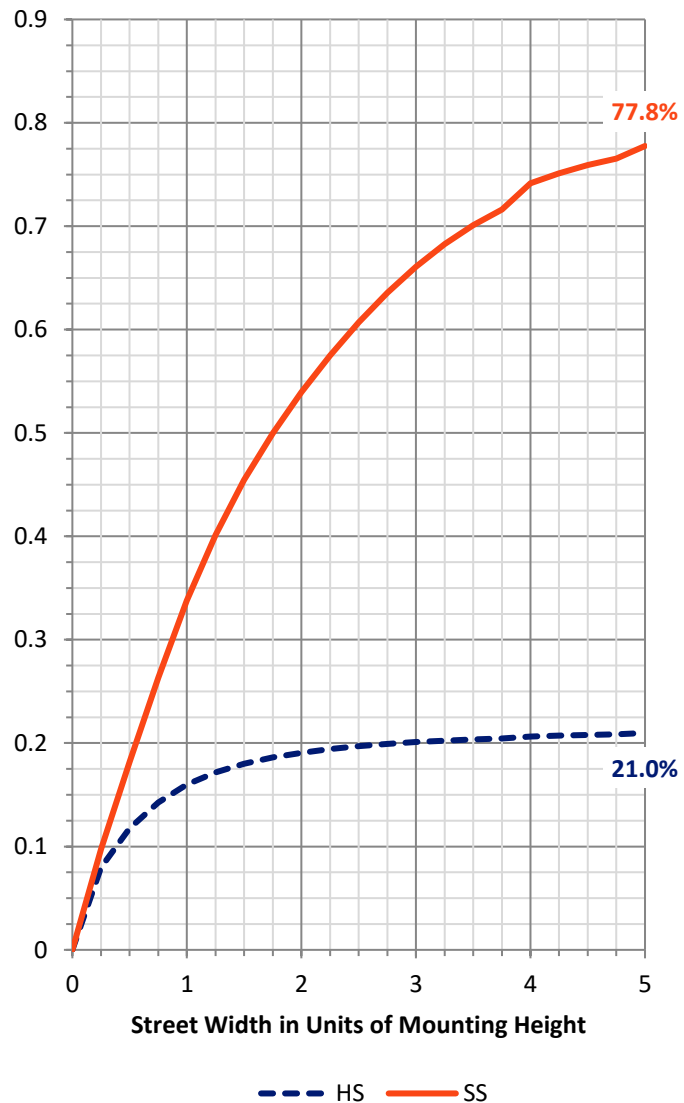
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7272.8	0.0	7272.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	26597.2	0.0	26597.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	33870.0	0.0	33870.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.8	1.4
10°-20°	1296.7	3.8
20°-30°	2117.8	6.3
30°-40°	3153.9	9.3
40°-50°	4523.5	13.4
50°-60°	6210.1	18.3
60°-70°	7774.7	23.0
70°-80°	7033.4	20.8
80°-90°	1281.2	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°	33870.0	100.0
0°-180°	33870.0	100.0

Coefficient of Utilization



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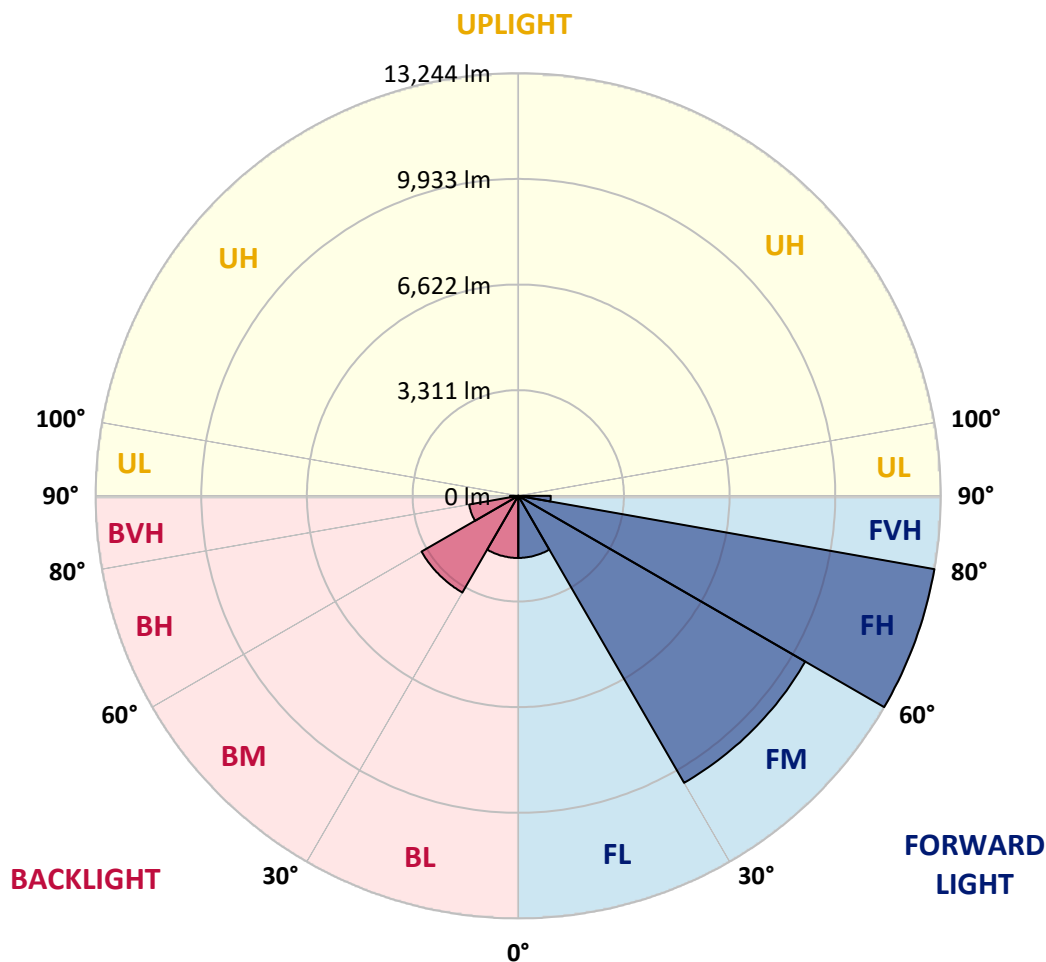
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1945.3	5.7			
FM	(30°-60°)	10387.2	30.7			
FH	(60°-80°)	13244.3	39.1			G5
FVH	(80°-90°)	1020.3	3.0			G5
BL	(0°-30°)	1948.0	5.8	B3/2500		
BM	(30°-60°)	3500.2	10.3	B3/5000		
BH	(60°-80°)	1563.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	260.8	0.8			G3/500
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°	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1
2.5°	4916.2	4897.5	4932.6	4937.2	4967.7	4979.4	5021.5	5087.0	5140.8	5202.8	5259.0
5°	4470.4	4457.5	4506.7	4541.8	4608.5	4636.6	4736.0	4875.2	4999.2	5139.6	5267.2
7.5°	4046.9	4039.9	4094.9	4174.4	4251.6	4290.2	4462.2	4664.6	4871.7	5098.7	5294.1
10°	3690.1	3687.7	3740.4	3818.8	3932.2	3975.5	4197.8	4464.6	4754.7	5067.1	5339.7
12.5°	3490.0	3498.2	3522.8	3588.3	3693.6	3736.9	3983.7	4297.3	4656.4	5056.6	5406.4
15°	3539.1	3552.0	3509.9	3507.5	3582.4	3616.3	3848.0	4177.9	4586.2	5074.1	5503.5
17.5°	3748.6	3750.9	3639.7	3569.5	3615.2	3632.7	3805.9	4110.1	4545.3	5113.9	5625.2
20°	4043.4	4037.5	3841.0	3724.0	3748.6	3753.2	3865.5	4111.2	4541.8	5182.9	5783.1
22.5°	4434.1	4390.9	4126.5	3967.3	3961.5	3954.5	4018.8	4197.8	4593.3	5295.2	5971.5
25°	4944.3	4903.3	4539.4	4321.8	4275.0	4257.5	4266.8	4382.7	4695.1	5415.7	6182.1
27.5°	5511.7	5440.3	5089.3	4781.6	4684.5	4660.0	4603.8	4643.6	4806.2	5531.6	6432.4
30°	5986.7	5948.1	5641.5	5276.5	5161.9	5126.8	4979.4	4936.1	4966.5	5689.5	6748.3
32.5°	6252.3	6226.5	6040.5	5745.7	5639.2	5590.1	5381.8	5295.2	5223.9	5938.7	7176.5
35°	6574.0	6557.6	6445.3	6231.2	6073.3	6021.8	5860.3	5770.2	5586.6	6281.5	7729.9
37.5°	6983.5	6965.9	6968.3	6795.1	6606.8	6558.8	6452.3	6357.6	6056.9	6732.0	8331.3
40°	7446.8	7412.9	7400.0	7391.8	7272.5	7245.6	7189.4	7060.7	6646.5	7270.1	8924.5
42.5°	8144.1	8023.6	7766.2	7863.3	7981.5	7967.4	8013.1	7828.2	7301.7	7906.6	9503.6
45°	8816.8	8619.1	8174.5	8195.6	8454.1	8532.5	8874.1	8743.1	8011.9	8603.9	10102.6
47.5°	9123.4	8973.6	8595.7	8596.9	8853.1	9015.7	9764.5	9670.9	8758.3	9396.0	10833.8
50°	9466.1	9316.4	8977.1	9104.6	9328.1	9501.2	10624.4	10576.4	9468.5	10262.9	11710.1
52.5°	9840.5	9586.7	9371.4	9599.5	9913.1	10114.3	11485.5	11354.5	10120.2	11135.7	12717.5
55°	9845.2	9776.2	9940.0	10107.3	10576.4	10823.3	12387.5	12041.2	10651.3	11993.3	13537.6
57.5°	10405.6	10293.3	10640.8	10718.0	11331.1	11609.5	13284.9	12639.1	11191.8	12650.8	13979.9
60°	11147.4	11051.4	11335.7	11539.3	12264.7	12636.7	14243.1	13253.3	11616.5	13146.8	13958.8
62.5°	12428.5	12319.7	12316.2	12601.6	13578.6	14011.4	15318.3	13855.8	11785.0	13245.1	13363.3
65°	14303.9	14130.8	13804.4	13940.1	15393.2	15824.9	16519.8	14292.2	11562.7	12718.6	11829.5
67.5°	16129.1	16123.2	15721.9	16000.4	17789.2	18135.6	17888.7	14335.5	10868.9	10885.3	9108.1
70°	17948.4	17971.8	17903.9	18872.6	21026.5	21386.9	19346.5	13754.1	9309.4	7861.0	5456.7
72.5°	19389.8	19383.9	19725.5	22223.4	25227.9	25147.1	20574.9	11992.1	6684.0	4243.4	2607.8
75°	18456.1	18252.6	19270.4	23882.4	27676.6	27282.3	19530.1	8365.2	3468.9	1931.6	1404.0
77.5°	12037.7	12230.8	13724.8	19729.0	24208.8	23729.1	14328.5	3903.0	1634.4	1267.1	1017.9
80°	4359.3	4562.8	6426.6	11175.5	16679.0	16600.6	7056.0	1604.0	1105.6	957.0	741.8
82.5°	1499.9	1574.8	2535.3	4963.0	9417.0	9768.0	2654.6	911.4	803.8	678.6	507.8
85°	588.5	673.9	1159.4	2387.9	4750.0	4785.1	1075.2	545.2	559.2	444.6	278.5
87.5°	223.5	271.4	554.6	1109.1	2169.1	1992.4	384.9	259.7	318.2	264.4	132.2
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°	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1	5294.1
2.5°	5302.3	5326.8	5378.3	5413.4	5450.8	5461.4	5466.1	5475.4	5484.8	5481.3	5482.4
5°	5335.0	5383.0	5466.1	5501.2	5517.5	5498.8	5462.5	5433.3	5412.2	5400.5	5397.0
7.5°	5388.8	5456.7	5545.6	5539.8	5502.3	5419.3	5325.7	5255.5	5197.0	5175.9	5164.2
10°	5460.2	5539.8	5601.8	5535.1	5426.3	5282.4	5142.0	5033.2	4945.4	4911.5	4905.6
12.5°	5551.5	5632.2	5643.9	5502.3	5322.1	5125.6	4934.9	4791.0	4660.0	4617.8	4608.5
15°	5669.6	5745.7	5673.1	5445.0	5193.5	4929.0	4682.2	4486.8	4348.7	4297.3	4278.5
17.5°	5793.6	5866.2	5679.0	5350.2	5025.0	4696.2	4386.2	4186.1	4028.2	3968.5	3961.5
20°	5942.2	5975.0	5654.4	5214.5	4793.3	4394.4	4068.0	3879.6	3795.4	3753.2	3748.6
22.5°	6125.9	6090.8	5598.3	5030.8	4499.7	4045.7	3780.1	3692.4	3671.3	3662.0	3665.5
25°	6320.1	6212.5	5515.2	4791.0	4128.8	3697.1	3569.5	3594.1	3622.2	3618.7	3618.7
27.5°	6534.2	6336.5	5387.7	4472.8	3718.1	3411.6	3426.8	3516.9	3559.0	3557.8	3556.7
30°	6809.2	6476.9	5225.0	4090.2	3334.4	3210.4	3302.8	3412.8	3470.1	3467.8	3468.9
32.5°	7147.3	6631.3	5003.9	3663.1	3057.1	3061.8	3168.3	3277.1	3343.7	3337.9	3339.1
35°	7542.7	6804.5	4704.4	3242.0	2873.4	2943.6	3027.9	3103.9	3167.1	3158.9	3150.7
37.5°	7973.3	6974.1	4306.6	2865.2	2723.7	2833.6	2903.8	2916.7	2946.0	2924.9	2909.7
40°	8382.8	7104.0	3794.2	2556.4	2572.7	2740.0	2785.7	2734.2	2681.5	2674.5	2653.5
42.5°	8739.6	7147.3	3275.9	2309.5	2413.6	2641.8	2669.8	2562.2	2467.4	2423.0	2404.3
45°	9116.3	7162.5	2792.7	2102.4	2260.4	2554.0	2584.4	2440.5	2307.2	2211.2	2179.6
47.5°	9608.9	7272.5	2417.1	1949.2	2143.4	2495.5	2538.8	2343.4	2170.3	2033.4	2004.1
50°	10253.5	7490.1	2111.8	1832.2	2067.3	2456.9	2506.1	2248.7	2058.0	1893.0	1863.7
52.5°	10969.5	7690.1	1864.9	1737.4	1993.6	2389.1	2463.9	2180.8	1952.7	1763.1	1731.5
55°	11470.3	7536.9	1666.0	1639.1	1897.7	2292.0	2405.4	2123.5	1801.7	1636.8	1608.7
57.5°	11566.2	7012.7	1515.1	1537.3	1781.8	2170.3	2315.4	1996.0	1719.8	1581.8	1552.5
60°	11304.2	6282.7	1402.8	1443.7	1657.8	2017.0	2146.9	1905.9	1641.5	1523.3	1498.7
62.5°	10645.5	5535.1	1319.7	1359.5	1542.0	1861.4	2041.6	1811.1	1561.9	1456.6	1432.0
65°	9315.2	4647.1	1240.2	1284.6	1434.4	1726.9	1946.8	1723.4	1483.5	1402.8	1379.4
67.5°	7031.5	3480.6	1165.3	1205.1	1338.4	1609.9	1843.9	1636.8	1407.5	1356.0	1327.9
70°	4140.5	2179.6	1079.9	1122.0	1237.8	1488.2	1733.9	1542.0	1312.7	1289.3	1253.0
72.5°	1926.9	1311.5	982.8	1023.7	1111.5	1325.6	1592.3	1418.0	1200.4	1148.9	1099.8
75°	1150.1	959.4	868.1	904.4	966.4	1152.4	1414.5	1291.6	1093.9	1026.1	974.6
77.5°	859.9	733.6	741.8	780.4	830.7	1008.5	1253.0	1192.2	1012.0	959.4	924.3
80°	618.9	556.9	604.9	647.0	699.6	917.2	1200.4	1102.1	914.9	844.7	812.0
82.5°	413.0	400.1	455.1	498.4	549.9	802.6	1127.8	965.2	781.5	692.6	620.1
85°	228.1	241.0	306.5	325.2	369.7	565.1	924.3	775.7	588.5	473.8	452.8
87.5°	94.8	111.1	165.0	159.1	196.6	336.9	608.4	468.0	374.4	279.6	217.6
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)