

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: P318643

Luminaire Tested: **GAN-SA9B-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318643
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-SA9B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 42981 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

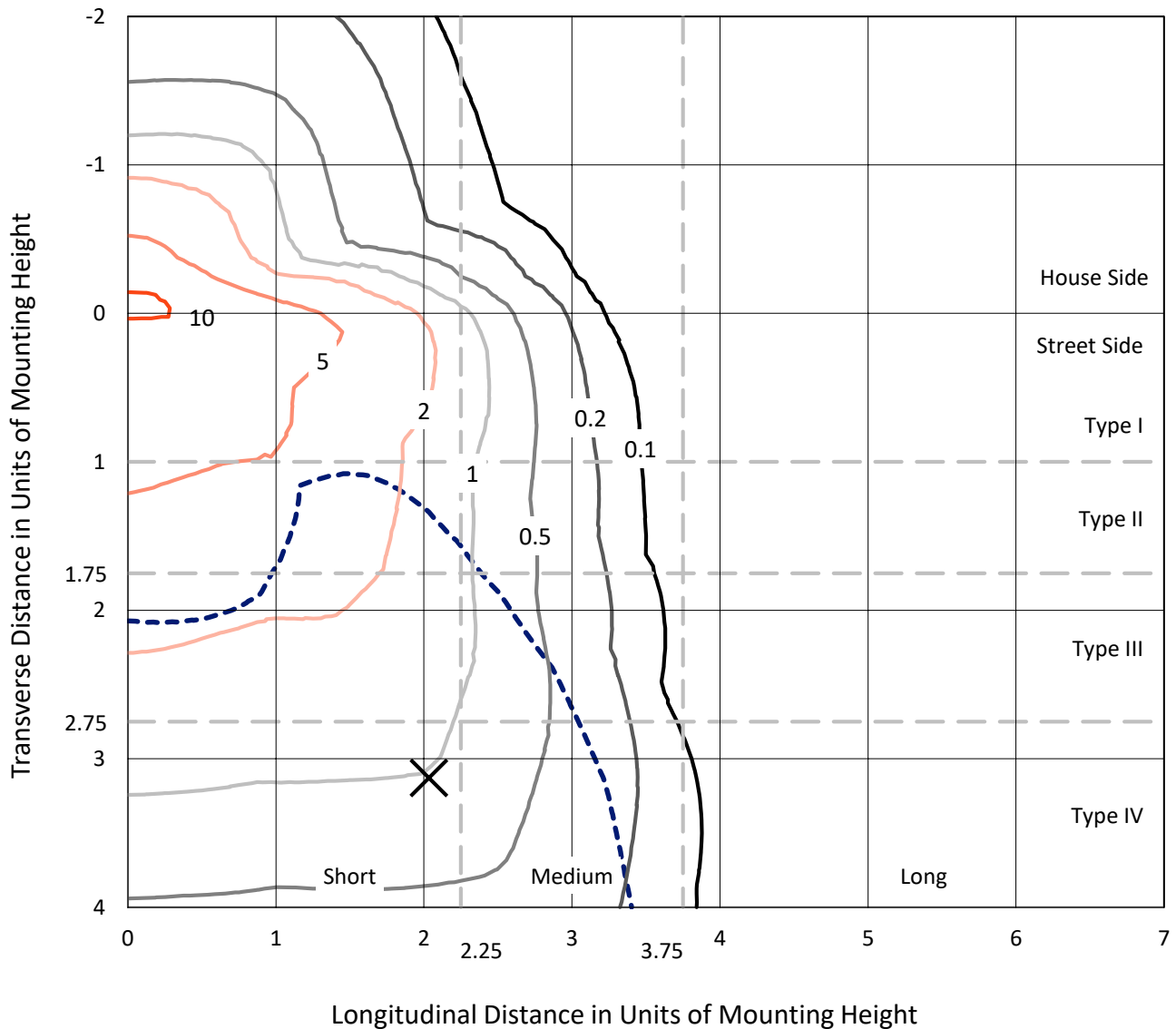
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

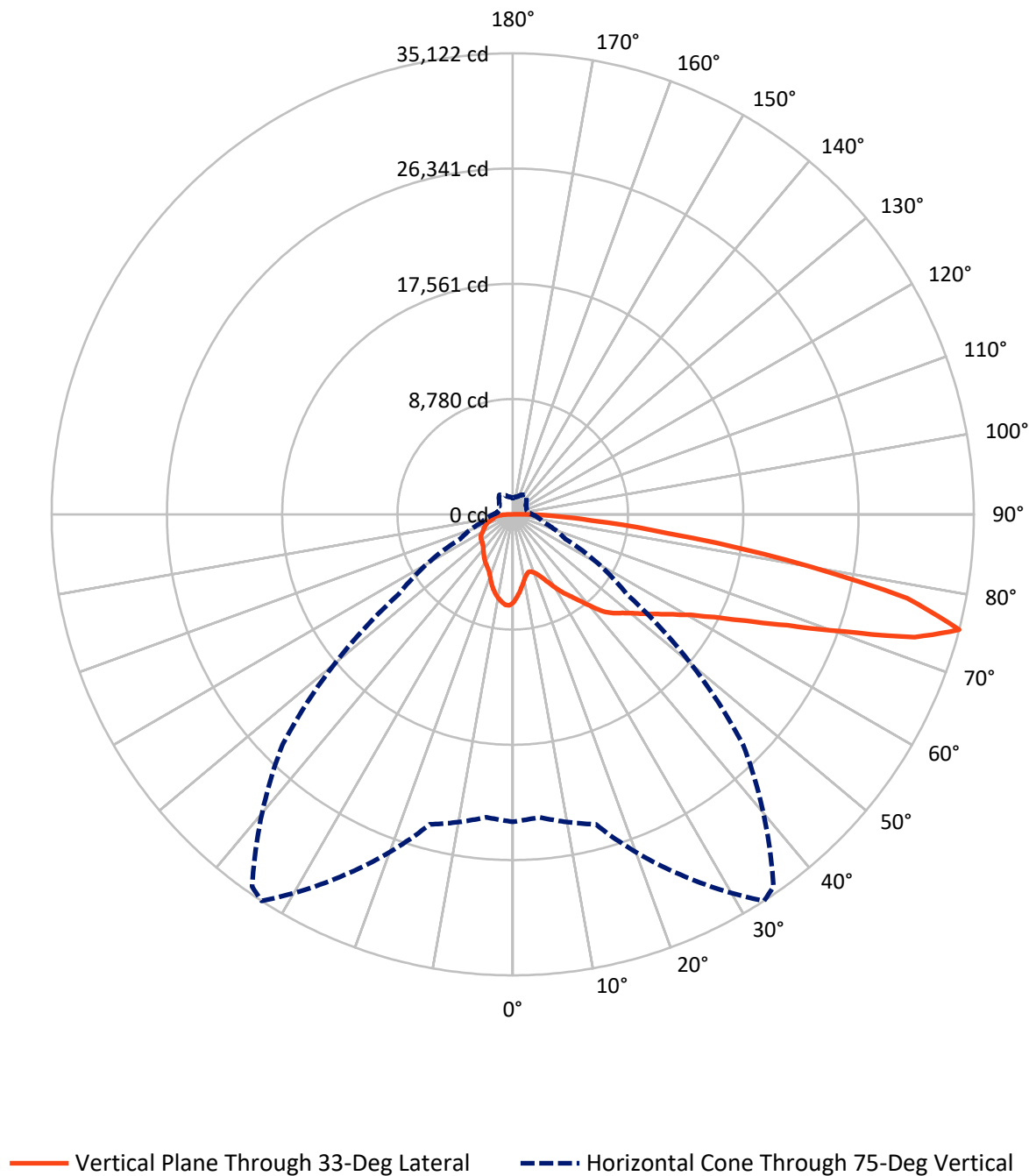
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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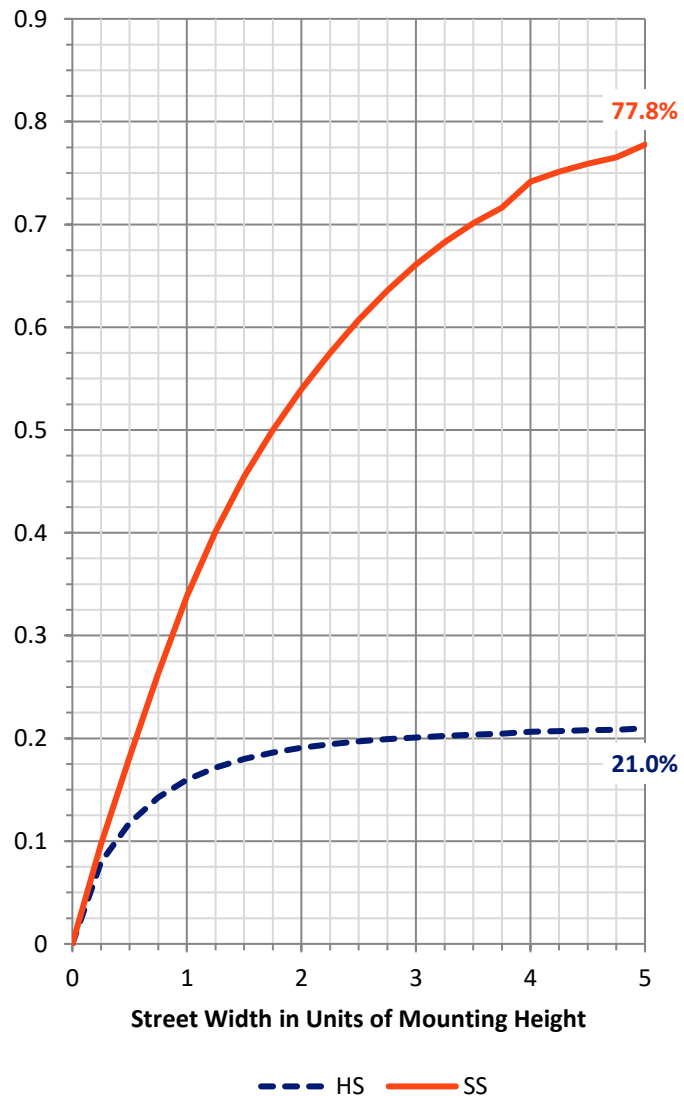
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9229.1	0.0	9229.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	33751.9	0.0	33751.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	42981.0	0.0	42981.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	607.6	1.4
10°-20°	1645.6	3.8
20°-30°	2687.5	6.3
30°-40°	4002.2	9.3
40°-50°	5740.3	13.4
50°-60°	7880.6	18.3
60°-70°	9866.1	23.0
70°-80°	8925.4	20.8
80°-90°	1625.8	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°	42981.0	100.0
0°-180°	42981.0	100.0

Coefficient of Utilization



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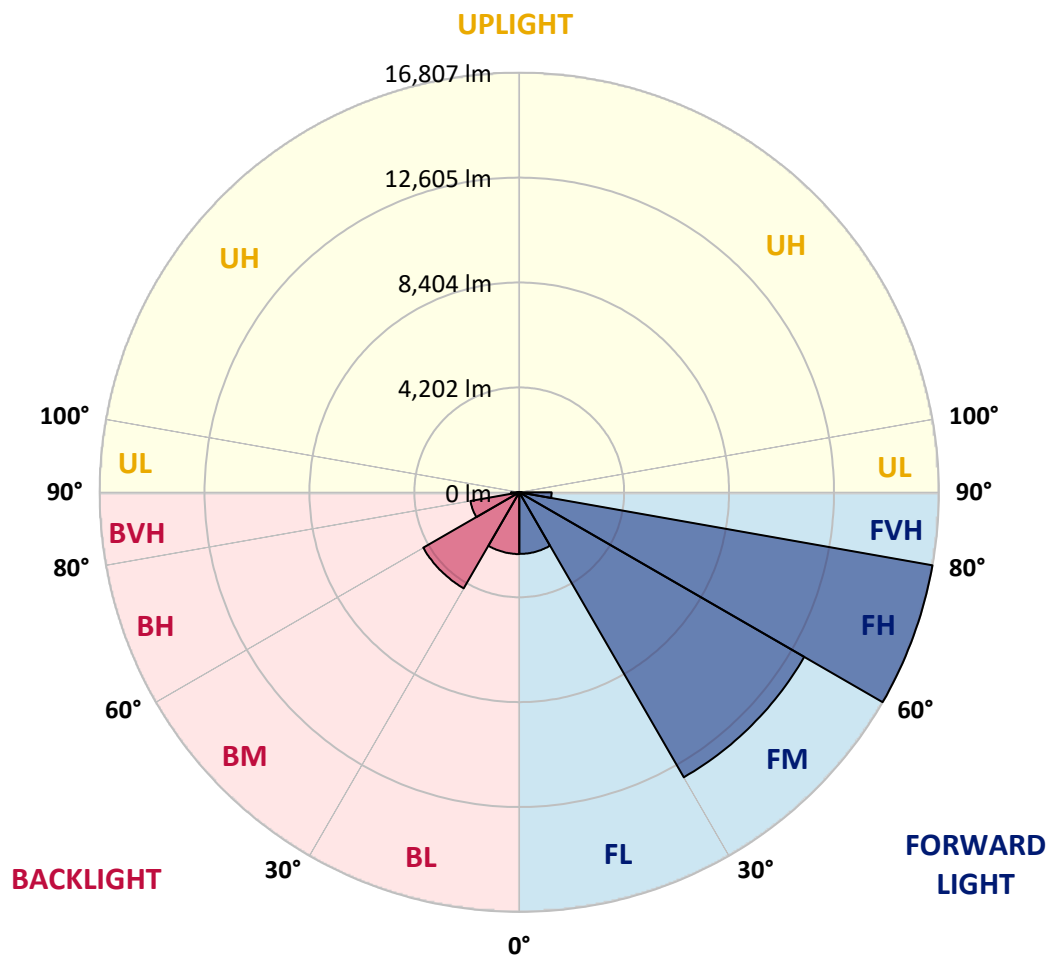
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2468.6	5.7			
FM	(30°-60°)	13181.4	30.7			
FH	(60°-80°)	16807.1	39.1			G5
FVH	(80°-90°)	1294.8	3.0			G5
BL	(0°-30°)	2472.0	5.8	B3/2500		
BM	(30°-60°)	4441.7	10.3	B3/5000		
BH	(60°-80°)	1984.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	331.0	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°	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2
2.5°	6238.6	6214.9	6259.4	6265.3	6303.9	6318.8	6372.2	6455.4	6523.7	6602.4	6673.6
5°	5673.0	5656.6	5719.0	5763.5	5848.1	5883.8	6010.0	6186.7	6344.0	6522.2	6684.0
7.5°	5135.5	5126.6	5196.4	5297.3	5395.3	5444.3	5662.6	5919.4	6182.2	6470.2	6718.2
10°	4682.7	4679.7	4746.5	4846.0	4990.0	5044.9	5327.0	5665.5	6033.7	6430.1	6776.1
12.5°	4428.8	4439.2	4470.4	4553.5	4687.1	4742.1	5055.3	5453.2	5909.0	6416.8	6860.7
15°	4491.2	4507.5	4454.0	4451.1	4546.1	4589.1	4883.1	5301.8	5819.9	6439.1	6983.9
17.5°	4756.9	4759.9	4618.8	4529.8	4587.7	4609.9	4829.7	5215.7	5768.0	6489.5	7138.3
20°	5131.0	5123.6	4874.2	4725.7	4756.9	4762.8	4905.4	5217.2	5763.5	6577.1	7338.8
22.5°	5626.9	5572.0	5236.5	5034.5	5027.1	5018.2	5099.9	5327.0	5828.8	6719.7	7577.8
25°	6274.3	6222.3	5760.6	5484.4	5425.0	5402.7	5414.6	5561.6	5958.0	6872.6	7845.0
27.5°	6994.3	6903.8	6458.4	6067.9	5944.7	5913.5	5842.2	5892.7	6099.1	7019.6	8162.8
30°	7597.1	7548.1	7159.1	6695.9	6550.4	6505.9	6318.8	6263.9	6302.5	7220.0	8563.6
32.5°	7934.1	7901.5	7665.4	7291.3	7156.2	7093.8	6829.5	6719.7	6629.1	7536.2	9107.0
35°	8342.4	8321.6	8179.1	7907.4	7707.0	7641.6	7436.8	7322.4	7089.3	7971.2	9809.3
37.5°	8862.0	8839.8	8842.7	8623.0	8384.0	8323.1	8188.0	8067.7	7686.2	8542.8	10572.4
40°	9450.0	9406.9	9390.6	9380.2	9228.8	9194.6	9123.4	8960.0	8434.5	9225.8	11325.1
42.5°	10334.8	10181.9	9855.3	9978.5	10128.5	10110.7	10168.6	9934.0	9265.9	10033.5	12060.0
45°	11188.5	10937.6	10373.5	10400.2	10728.3	10827.8	11261.3	11095.0	10167.1	10918.3	12820.2
47.5°	11577.5	11387.5	10907.9	10909.4	11234.6	11440.9	12391.1	12272.4	11114.3	11923.5	13748.1
50°	12012.5	11822.5	11391.9	11553.8	11837.3	12057.1	13482.4	13421.5	12015.5	13023.6	14860.1
52.5°	12487.6	12165.5	11892.3	12181.8	12579.7	12835.0	14575.1	14408.8	12842.5	14131.2	16138.5
55°	12493.6	12406.0	12613.8	12826.1	13421.5	13734.8	15719.8	15280.3	13516.5	15219.4	17179.2
57.5°	13204.7	13062.2	13503.2	13601.1	14379.1	14732.5	16858.5	16039.0	14202.4	16053.8	17740.4
60°	14146.0	14024.3	14385.1	14643.4	15563.9	16036.0	18074.5	16818.4	14741.4	16683.3	17713.7
62.5°	15771.7	15633.7	15629.2	15991.5	17231.2	17780.5	19438.9	17583.1	14955.2	16808.0	16958.0
65°	18151.7	17931.9	17517.7	17689.9	19533.9	20081.8	20963.7	18136.8	14673.1	16139.9	15011.6
67.5°	20467.8	20460.4	19951.1	20304.5	22574.5	23014.0	22700.7	18191.8	13792.7	13813.5	11558.2
70°	22776.5	22806.2	22720.0	23949.4	26682.6	27139.9	24550.6	17453.9	11813.6	9975.6	6924.5
72.5°	24605.6	24598.2	25031.7	28201.5	32014.1	31911.7	26109.6	15218.0	8482.0	5384.9	3309.3
75°	23420.8	23162.5	24454.1	30306.7	35121.6	34621.2	24783.7	10615.5	4402.1	2451.2	1781.6
77.5°	15275.9	15520.8	17416.8	25036.1	30721.0	30112.3	18182.9	4952.9	2074.1	1607.9	1291.7
80°	5531.9	5790.2	8155.3	14181.7	21165.6	21066.1	8954.1	2035.5	1403.0	1214.5	941.3
82.5°	1903.4	1998.4	3217.3	6298.0	11950.2	12395.6	3368.7	1156.6	1020.0	861.1	644.4
85°	746.8	855.2	1471.3	3030.2	6027.8	6072.3	1364.4	691.9	709.7	564.2	353.4
87.5°	283.6	344.4	703.7	1407.5	2752.6	2528.4	488.5	329.6	403.8	335.5	167.8
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°	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2	6718.2
2.5°	6728.6	6759.7	6825.1	6869.6	6917.1	6930.5	6936.4	6948.3	6960.2	6955.7	6957.2
5°	6770.1	6831.0	6936.4	6981.0	7001.7	6978.0	6932.0	6894.8	6868.1	6853.3	6848.8
7.5°	6838.4	6924.5	7037.4	7030.0	6982.4	6877.0	6758.3	6669.2	6594.9	6568.2	6553.4
10°	6929.0	7030.0	7108.6	7024.0	6885.9	6703.3	6525.2	6387.1	6275.7	6232.7	6225.3
12.5°	7044.8	7147.2	7162.1	6982.4	6753.8	6504.4	6262.4	6079.8	5913.5	5860.0	5848.1
15°	7194.8	7291.3	7199.2	6909.7	6590.5	6255.0	5941.7	5693.7	5518.6	5453.2	5429.5
17.5°	7352.1	7444.2	7206.6	6789.4	6376.7	5959.5	5566.1	5312.2	5111.7	5036.0	5027.1
20°	7540.7	7582.3	7175.5	6617.2	6082.7	5576.5	5162.2	4923.2	4816.3	4762.8	4756.9
22.5°	7773.8	7729.2	7104.2	6384.1	5710.1	5134.0	4797.0	4685.6	4658.9	4647.0	4651.5
25°	8020.2	7883.6	6998.8	6079.8	5239.4	4691.6	4529.8	4560.9	4596.6	4592.1	4592.1
27.5°	8291.9	8041.0	6836.9	5675.9	4718.3	4329.3	4348.6	4462.9	4516.4	4514.9	4513.4
30°	8640.8	8219.2	6630.6	5190.4	4231.3	4074.0	4191.2	4330.8	4403.6	4400.6	4402.1
32.5°	9069.9	8415.2	6350.0	4648.5	3879.5	3885.4	4020.5	4158.6	4243.2	4235.8	4237.3
35°	9571.7	8634.9	5969.9	4114.0	3646.4	3735.5	3842.3	3938.9	4019.0	4008.6	3998.2
37.5°	10118.1	8850.2	5465.1	3636.0	3456.3	3595.9	3685.0	3701.3	3738.4	3711.7	3692.4
40°	10637.7	9015.0	4814.8	3244.0	3264.8	3477.1	3535.0	3469.7	3402.9	3394.0	3367.3
42.5°	11090.6	9069.9	4157.1	2930.8	3062.9	3352.4	3388.0	3251.4	3131.2	3074.8	3051.0
45°	11568.6	9089.2	3543.9	2668.0	2868.4	3241.1	3279.7	3097.0	2927.8	2806.0	2766.0
47.5°	12193.7	9228.8	3067.3	2473.5	2719.9	3166.8	3221.8	2973.8	2754.1	2580.4	2543.3
50°	13011.7	9504.9	2679.8	2325.0	2623.4	3117.8	3180.2	2853.6	2611.5	2402.2	2365.1
52.5°	13920.3	9758.8	2366.6	2204.7	2529.9	3031.7	3126.7	2767.4	2477.9	2237.4	2197.3
55°	14555.8	9564.3	2114.2	2080.0	2408.1	2908.5	3052.5	2694.7	2286.4	2077.1	2041.4
57.5°	14677.5	8899.2	1922.7	1950.9	2261.2	2754.1	2938.2	2532.9	2182.5	2007.3	1970.2
60°	14345.0	7972.7	1780.1	1832.1	2103.8	2559.6	2724.4	2418.5	2083.0	1933.1	1901.9
62.5°	13509.1	7024.0	1674.7	1725.2	1956.8	2362.1	2590.8	2298.3	1982.0	1848.4	1817.2
65°	11821.0	5897.1	1573.8	1630.2	1820.2	2191.4	2470.5	2186.9	1882.6	1780.1	1750.4
67.5°	8922.9	4416.9	1478.7	1529.2	1698.5	2042.9	2339.9	2077.1	1786.1	1720.7	1685.1
70°	5254.3	2766.0	1370.4	1423.8	1570.8	1888.5	2200.3	1956.8	1665.8	1636.1	1590.1
72.5°	2445.3	1664.3	1247.1	1299.1	1410.4	1682.1	2020.6	1799.4	1523.3	1458.0	1395.6
75°	1459.4	1217.4	1101.6	1147.7	1226.3	1462.4	1795.0	1639.1	1388.2	1302.1	1236.7
77.5°	1091.2	930.9	941.3	990.3	1054.1	1279.8	1590.1	1512.9	1284.2	1217.4	1172.9
80°	785.4	706.7	767.6	821.0	887.8	1164.0	1523.3	1398.6	1161.0	1071.9	1030.4
82.5°	524.1	507.8	577.5	632.5	697.8	1018.5	1431.2	1224.9	991.8	878.9	786.9
85°	289.5	305.8	389.0	412.7	469.2	717.1	1172.9	984.3	746.8	601.3	574.6
87.5°	120.3	141.0	209.3	201.9	249.4	427.6	772.0	593.9	475.1	354.8	276.2
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)