

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: P318334

Luminaire Tested: **GAN-SA0C-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58561 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

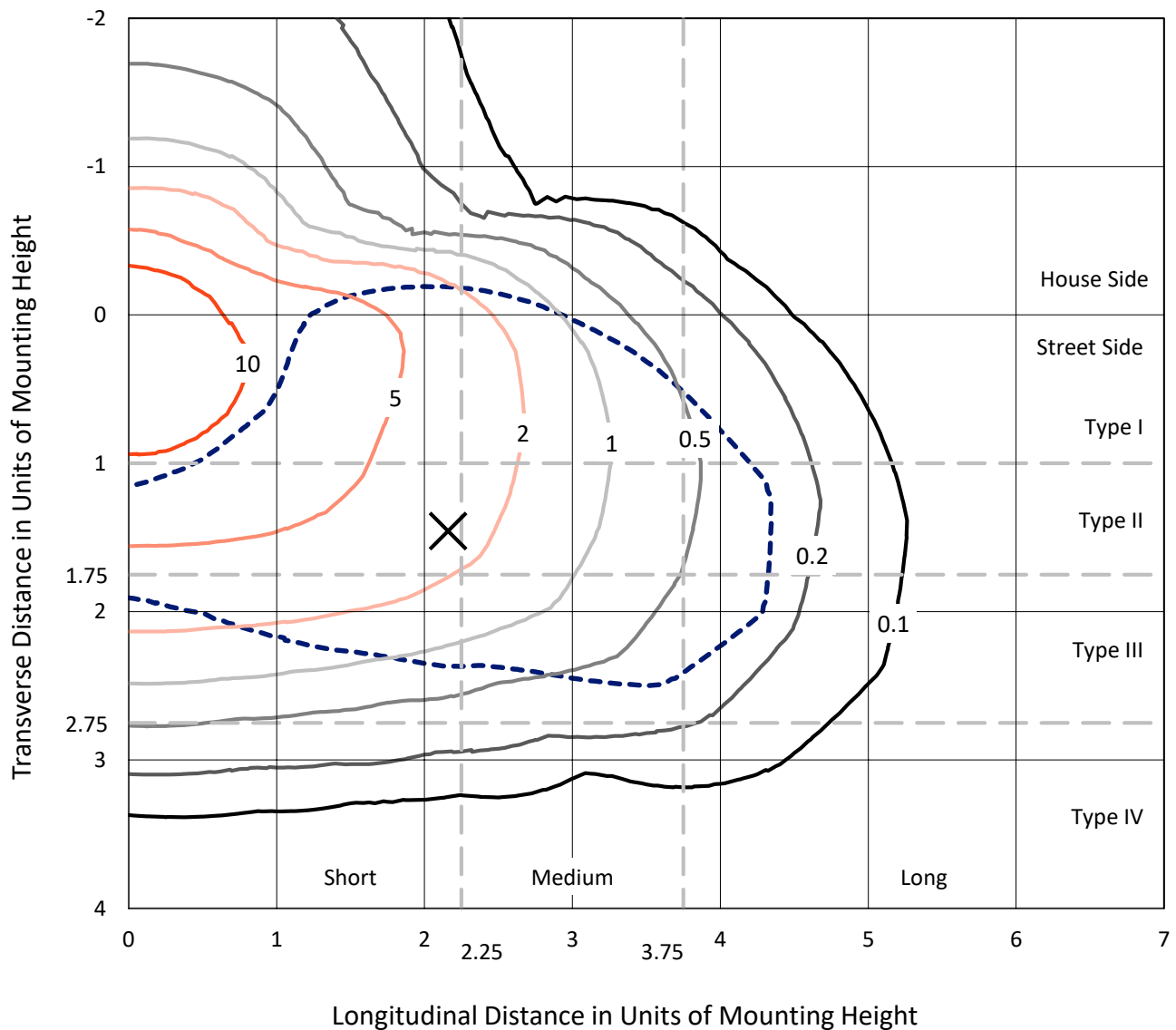
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

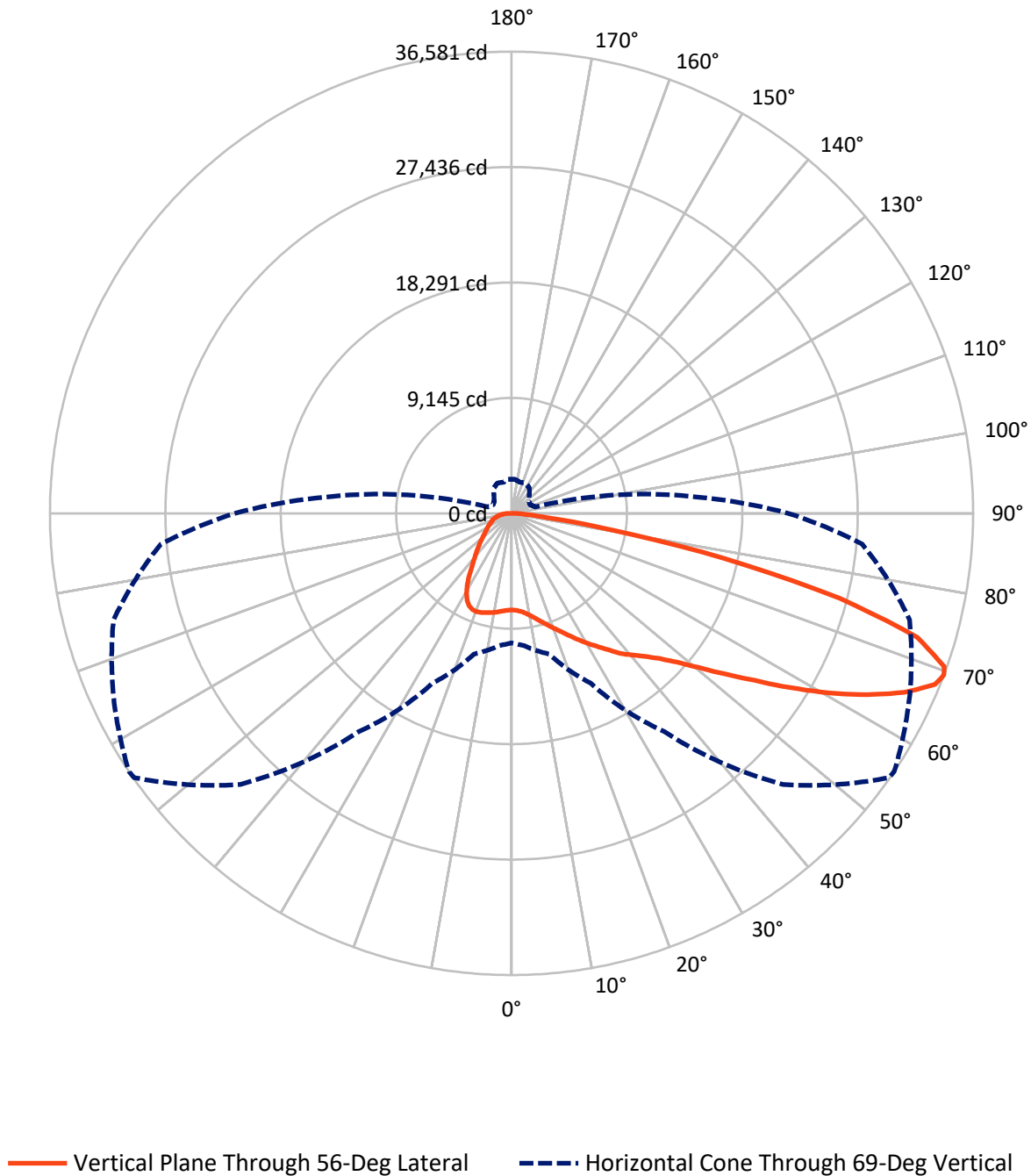
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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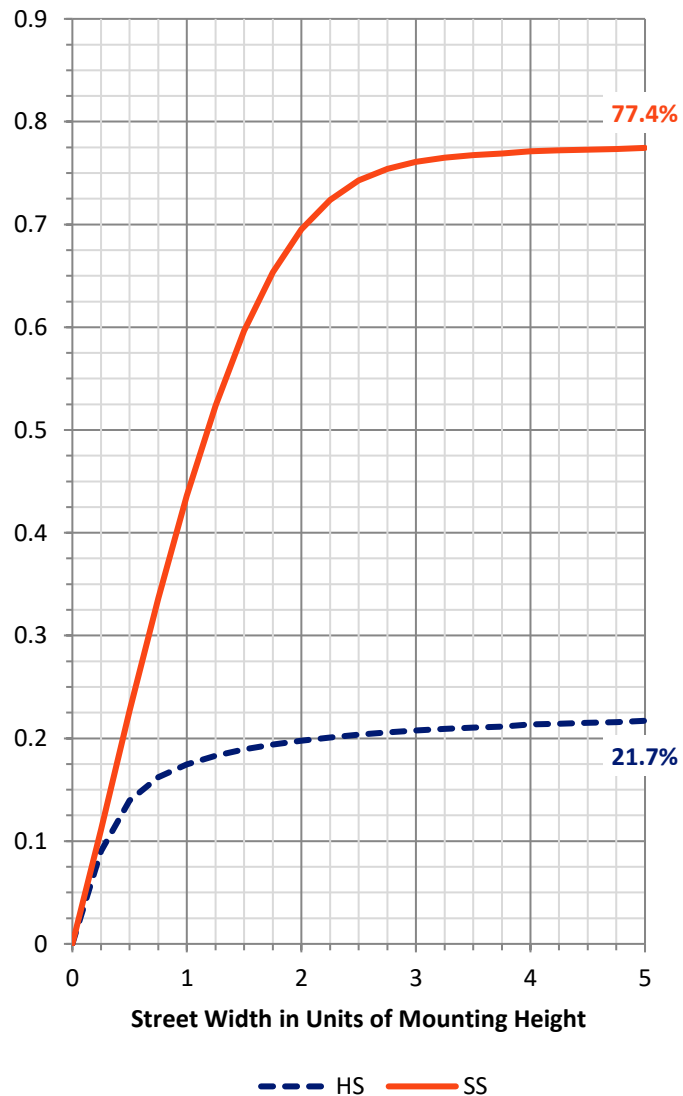
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13041.4	0.0	13041.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	45519.6	0.0	45519.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	58561.0	0.0	58561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.9	1.3
10°-20°	2417.9	4.1
20°-30°	4220.8	7.2
30°-40°	6063.0	10.4
40°-50°	8390.9	14.3
50°-60°	12293.8	21.0
60°-70°	14988.4	25.6
70°-80°	8286.6	14.2
80°-90°	1147.7	2.0
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°	58561.0	100.0
0°-180°	58561.0	100.0

Coefficient of Utilization



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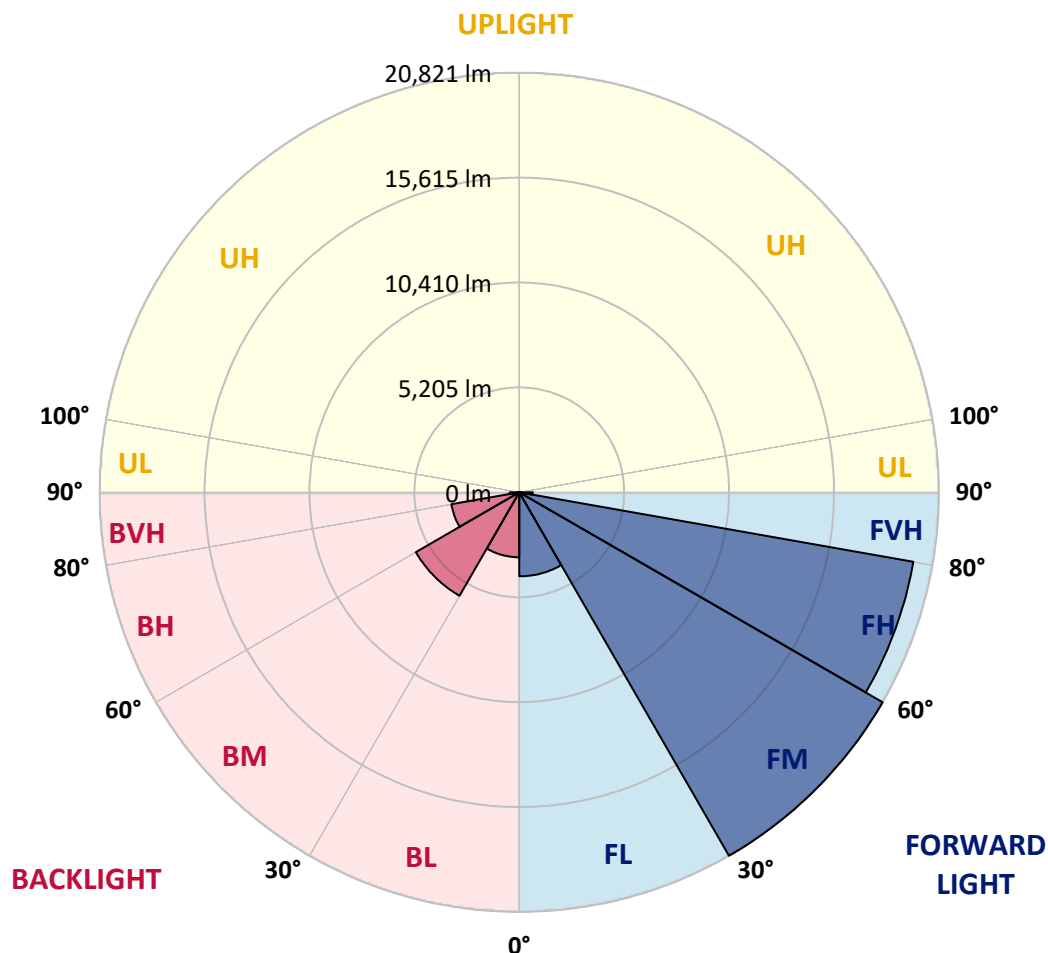
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4167.8	7.1			
FM	(30°-60°)	20820.6	35.6			
FH	(60°-80°)	19855.1	33.9			G5
FVH	(80°-90°)	676.0	1.2			G4/750
BL	(0°-30°)	3222.8	5.5	B4/5000		
BM	(30°-60°)	5927.0	10.1	B4/8500		
BH	(60°-80°)	3419.9	5.8	B4/5000		G4/5000
BVH	(80°-90°)	471.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0
2.5°	7704.4	7712.5	7706.4	7722.5	7704.4	7716.5	7706.4	7706.4	7700.4	7682.2	7662.0
5°	7825.4	7841.6	7831.5	7847.6	7825.4	7829.5	7811.3	7811.3	7793.2	7754.8	7714.5
7.5°	8015.1	8033.2	8025.2	8041.3	8011.0	8011.0	7986.8	7984.8	7948.5	7886.0	7839.6
10°	8241.0	8265.2	8257.1	8281.4	8257.1	8265.2	8241.0	8241.0	8192.6	8103.8	8045.3
12.5°	8569.8	8600.1	8577.9	8575.9	8565.8	8581.9	8561.8	8557.7	8513.4	8392.3	8311.6
15°	9009.6	9041.9	8995.5	8991.5	8935.0	8928.9	8928.9	8922.9	8894.6	8749.4	8616.2
17.5°	9516.0	9526.1	9485.7	9421.2	9348.6	9302.2	9296.1	9312.2	9312.2	9142.8	8931.0
20°	10012.3	10030.4	9998.2	9925.5	9832.7	9764.1	9715.7	9748.0	9746.0	9544.2	9243.6
22.5°	10552.9	10595.3	10546.9	10454.1	10345.1	10268.5	10183.8	10212.0	10214.0	9965.9	9550.3
25°	11253.0	11214.6	11184.4	11053.2	10897.9	10819.2	10740.5	10768.8	10760.7	10419.8	9867.0
27.5°	11872.3	11880.4	11840.0	11700.8	11521.3	11347.8	11343.7	11361.9	11331.6	10891.9	10165.6
30°	12592.5	12596.5	12540.1	12415.0	12219.3	11995.4	11942.9	11973.2	11908.6	11339.7	10480.3
32.5°	13308.7	13328.9	13266.3	13115.0	12957.7	12685.3	12580.4	12600.6	12439.2	11797.7	10805.1
35°	13936.1	13964.3	13944.2	13843.3	13671.8	13437.8	13312.7	13300.6	13100.9	12358.5	11234.8
37.5°	14575.6	14601.8	14579.6	14494.9	14426.3	14178.2	14111.6	14111.6	13764.6	12931.4	11781.5
40°	15233.3	15273.6	15247.4	15130.4	15071.9	14958.9	14799.5	14761.2	14386.0	13619.4	12673.2
42.5°	15844.5	15897.0	16001.9	15933.3	15814.3	15830.4	15509.6	15489.5	15215.1	14636.1	13792.8
45°	16712.0	16788.7	16966.2	16913.7	16889.5	16800.8	16419.5	16401.3	16296.4	16003.9	15182.8
47.5°	17658.2	17763.1	18083.8	18093.9	18354.2	18186.7	17668.2	17605.7	17629.9	17642.0	16879.4
50°	18529.7	18644.7	19171.2	19419.3	20032.6	20068.9	19239.8	19183.3	19278.1	19556.5	18856.5
52.5°	19225.7	19370.9	20028.6	20795.2	21846.2	22144.8	21174.5	21132.1	21202.7	21682.8	21091.7
55°	19736.1	19893.4	20609.6	22005.6	23684.1	24210.6	23401.6	23361.3	23405.7	24016.9	23522.7
57.5°	19855.1	19893.4	20932.4	22820.6	25235.4	26500.3	26127.1	26046.4	25828.6	26361.1	26205.8
60°	19296.3	19449.6	20666.1	23107.1	26435.8	28757.8	28975.7	28874.8	28263.5	28699.3	28574.2
62.5°	18162.5	18436.9	19671.5	22671.4	26905.8	30601.7	31769.8	31648.7	30595.6	30878.1	30276.9
65°	16310.5	16427.6	17724.7	21168.4	26308.7	31781.9	34261.2	34200.7	32875.3	32433.5	30591.6
67.5°	12998.0	13217.9	14319.4	18027.3	23865.6	31642.7	36187.8	36181.8	34364.1	33010.4	29476.0
69°	10268.5	10496.4	11545.5	14850.0	21118.0	30369.7	36510.6	36581.2	34783.7	32659.4	27882.3
70°	8186.5	8450.8	9171.0	12507.8	18679.0	28691.2	36242.3	36369.4	34703.0	32080.4	26411.6
72.5°	3484.0	3697.9	4210.3	6447.6	11384.1	21424.6	33137.5	33617.7	32832.9	29361.0	21828.1
75°	1521.1	1587.7	1819.7	2628.7	5053.5	11660.5	25959.7	26847.3	28073.9	24817.8	16260.1
77.5°	1113.6	1141.8	1268.9	1543.3	2267.5	4403.9	16693.8	17210.3	20246.5	18059.6	9973.9
80°	861.4	881.6	980.4	1133.8	1480.8	1781.3	7613.6	8057.4	11384.1	9275.9	4153.8
82.5°	685.9	700.0	768.6	835.2	1022.8	1079.3	2527.8	2804.2	4202.2	2562.1	1099.5
85°	637.5	653.6	677.8	609.2	655.6	633.5	1093.4	1143.9	1268.9	1006.7	460.0
87.5°	288.5	340.9	671.8	474.1	349.0	278.4	447.9	468.0	526.5	528.6	203.8
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°	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0	7656.0
2.5°	7674.1	7668.1	7678.2	7654.0	7684.2	7682.2	7672.1	7676.1	7696.3	7694.3	7696.3
5°	7720.5	7716.5	7728.6	7710.4	7746.8	7758.9	7760.9	7779.0	7801.2	7807.3	7807.3
7.5°	7837.5	7837.5	7843.6	7819.4	7843.6	7841.6	7831.5	7849.6	7871.8	7873.8	7871.8
10°	8039.3	8041.3	8031.2	7968.7	7948.5	7894.0	7843.6	7845.6	7873.8	7896.0	7902.1
12.5°	8293.5	8285.4	8241.0	8126.0	8041.3	7930.3	7877.9	7875.9	7904.1	7922.3	7928.3
15°	8584.0	8561.8	8446.8	8259.2	8109.9	8000.9	7916.2	7896.0	7879.9	7859.7	7861.7
17.5°	8858.3	8807.9	8616.2	8356.0	8198.6	8053.4	7890.0	7758.9	7668.1	7615.6	7599.5
20°	9136.7	9037.9	8761.5	8446.8	8247.1	7982.8	7668.1	7401.8	7236.4	7159.7	7145.6
22.5°	9390.9	9231.5	8896.7	8541.6	8208.7	7744.7	7250.5	6863.1	6633.2	6530.3	6538.3
25°	9639.1	9417.1	9037.9	8608.2	8015.1	7325.1	6669.5	6193.4	5927.1	5812.1	5808.0
27.5°	9856.9	9604.8	9191.2	8553.7	7654.0	6728.0	5981.5	5517.5	5295.6	5196.8	5180.6
30°	10107.1	9840.8	9395.0	8345.9	7125.4	6038.0	5309.8	4982.9	4825.6	4726.7	4708.6
32.5°	10411.7	10161.6	9562.4	7968.7	6449.6	5317.8	4785.2	4557.3	4414.0	4303.1	4282.9
35°	10855.5	10585.2	9604.8	7428.0	5707.2	4748.9	4399.9	4165.9	3972.2	3829.0	3814.9
37.5°	11412.3	11115.8	9507.9	6728.0	4987.0	4379.7	4079.1	3790.7	3538.5	3336.8	3304.5
40°	12215.3	11767.4	9239.6	5921.0	4456.4	4095.3	3766.5	3437.6	3124.9	2888.9	2842.5
42.5°	13179.6	12532.0	8828.1	5118.1	4067.0	3806.8	3455.8	3048.3	2749.7	2582.3	2558.0
45°	14406.1	13326.8	8257.1	4416.1	3683.7	3518.3	3120.9	2745.7	2560.1	2437.0	2416.8
47.5°	15806.2	14218.5	7658.0	3845.1	3358.9	3248.0	2852.6	2610.5	2463.2	2366.4	2348.2
50°	17527.0	15225.2	7022.5	3377.1	3032.1	2923.2	2725.5	2535.9	2418.8	2344.2	2326.0
52.5°	19467.7	16361.0	6564.6	3007.9	2761.8	2683.1	2658.9	2495.5	2400.7	2344.2	2326.0
55°	21557.8	17516.9	6070.3	2697.2	2527.8	2550.0	2614.5	2499.5	2435.0	2366.4	2340.2
57.5°	23649.8	18711.2	5519.6	2435.0	2342.2	2451.1	2584.3	2507.6	2453.1	2386.6	2362.4
60°	25304.0	19467.7	4666.2	2215.1	2194.9	2342.2	2511.6	2447.1	2376.5	2378.5	2374.5
62.5°	26076.7	19427.4	3724.1	2019.4	2047.6	2194.9	2394.6	2352.3	2293.8	2372.4	2378.5
65°	25643.0	18459.1	2899.0	1841.9	1890.3	2041.6	2273.6	2305.9	2326.0	2477.3	2497.5
67.5°	23823.3	16574.8	2245.3	1686.5	1747.1	1936.7	2285.7	2511.6	2537.9	2697.2	2695.2
69°	21941.1	14807.6	1950.8	1605.8	1676.4	1962.9	2443.1	2642.8	2543.9	2713.4	2689.2
70°	20363.5	13409.5	1793.5	1551.4	1644.2	2009.3	2548.0	2640.8	2513.7	2658.9	2618.6
72.5°	15683.1	9647.1	1521.1	1450.5	1535.2	1922.6	2578.2	2582.3	2443.1	2471.3	2402.7
75°	10756.7	6096.5	1327.4	1313.3	1369.8	1732.9	2481.4	2467.3	2259.5	2219.1	2162.6
77.5°	5931.1	3096.7	1127.7	1182.2	1220.5	1535.2	2255.4	2235.3	2063.8	1979.1	1958.9
80°	2287.7	1355.7	952.2	1051.1	1075.3	1329.5	1977.0	1958.9	1815.6	1706.7	1676.4
82.5°	863.4	710.1	786.8	909.8	901.8	1097.5	1674.4	1664.3	1525.1	1365.8	1317.4
85°	399.4	425.7	623.4	750.5	692.0	813.0	1339.5	1357.7	1188.2	998.6	998.6
87.5°	169.5	238.1	441.8	566.9	466.0	548.7	982.5	938.1	861.4	597.1	560.8
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)