

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: P317683

Luminaire Tested: **GAN-SA9B-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317683
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43683 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

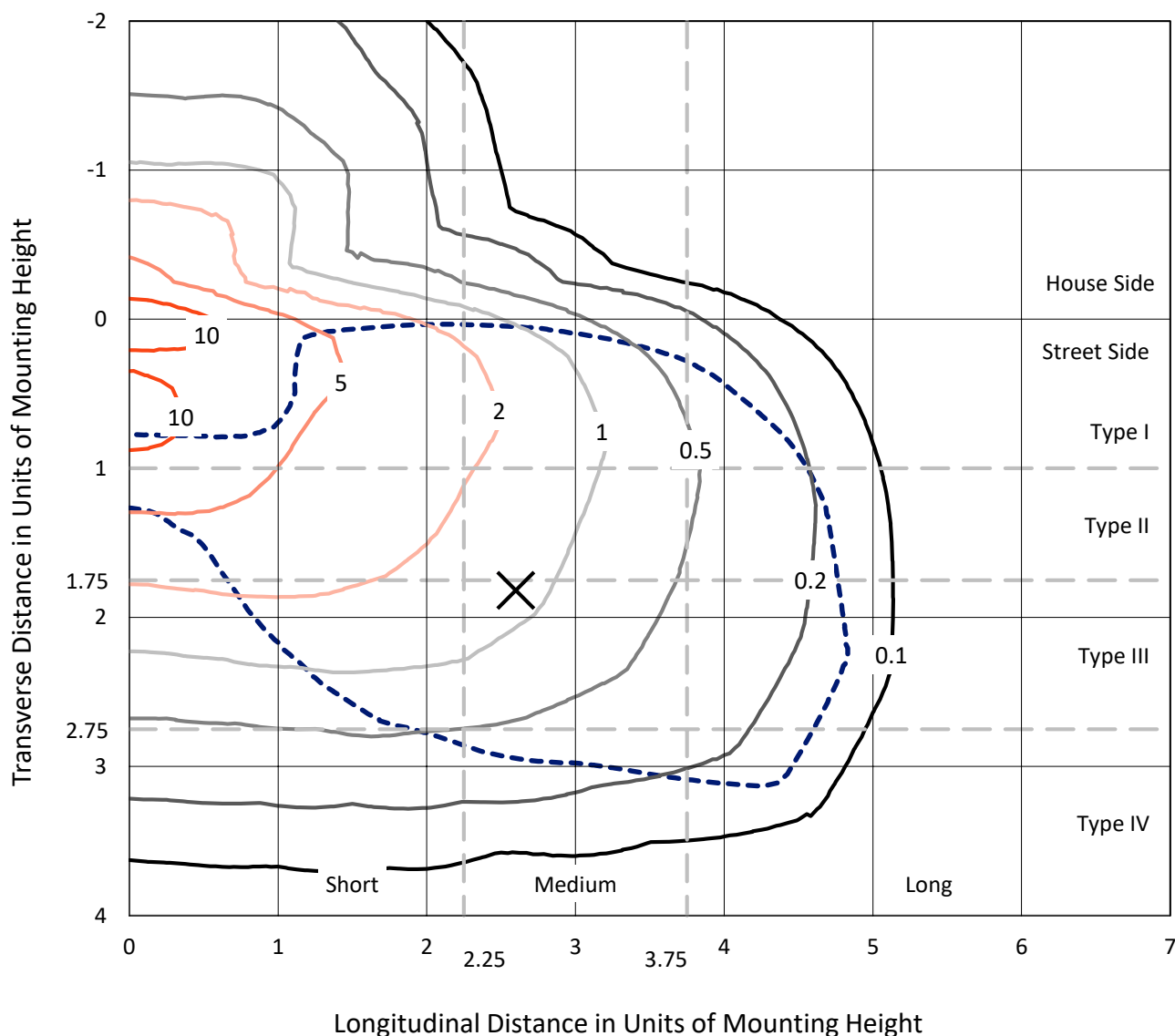
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

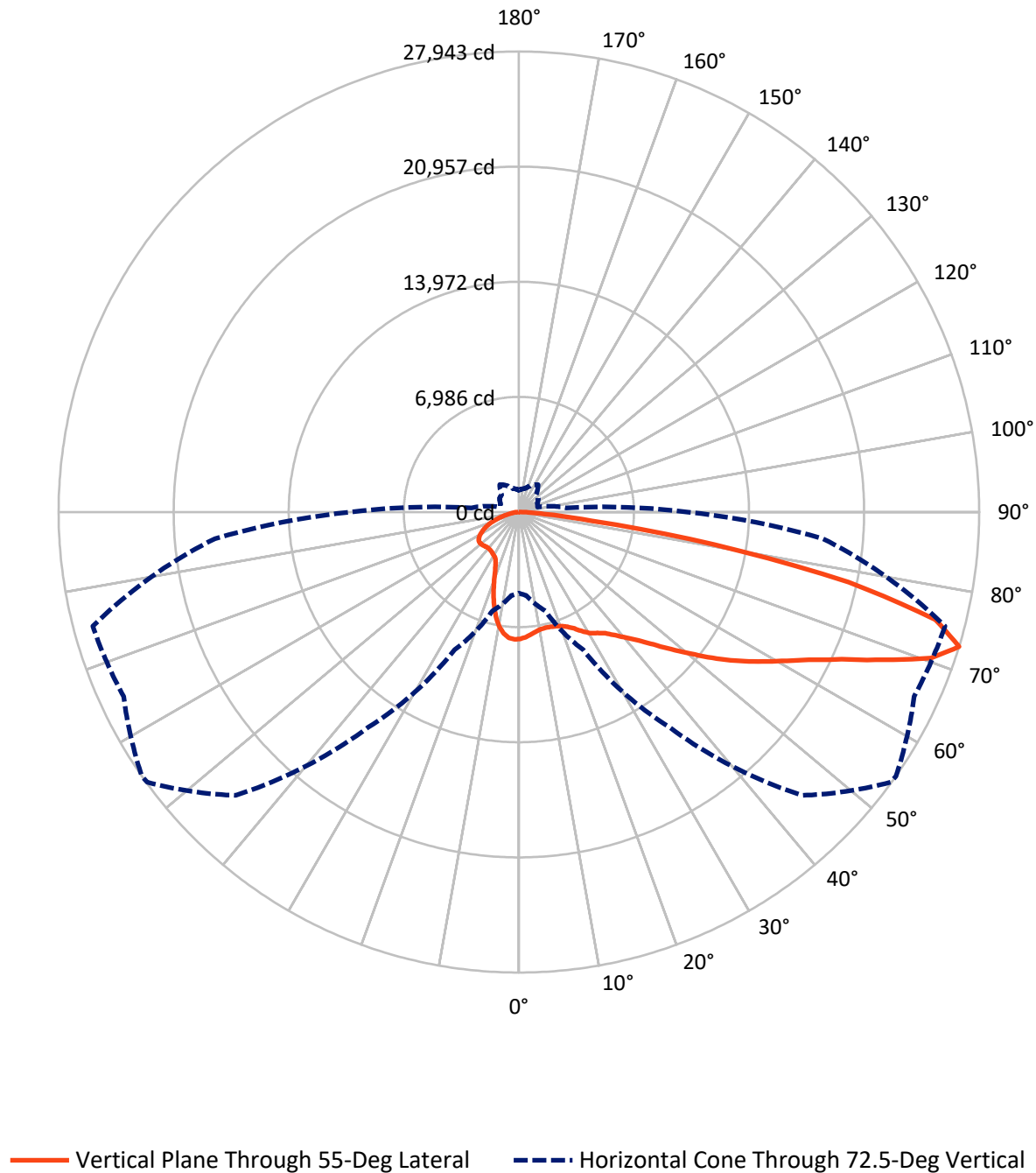
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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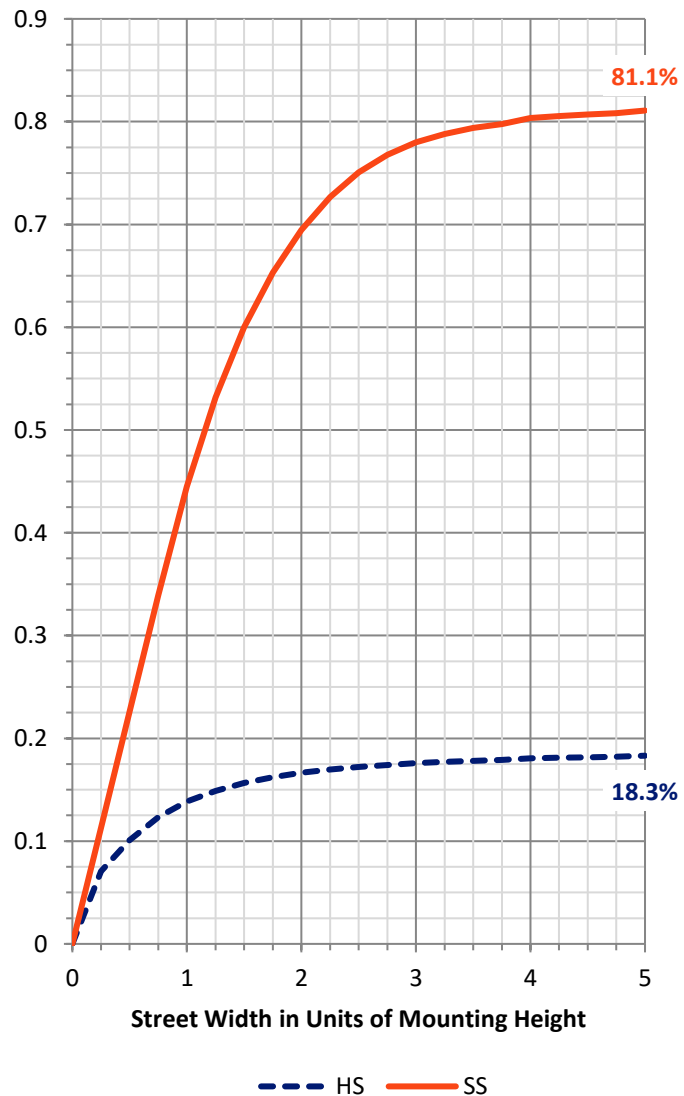
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8119.2	0.0	8119.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	35563.8	0.0	35563.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	43683.0	0.0	43683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.2	1.6
10°-20°	1856.2	4.2
20°-30°	3060.4	7.0
30°-40°	4527.1	10.4
40°-50°	6318.8	14.5
50°-60°	8227.3	18.8
60°-70°	10111.1	23.1
70°-80°	7925.9	18.1
80°-90°	959.1	2.2
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°	43683.0	100.0
0°-180°	43683.0	100.0

Coefficient of Utilization



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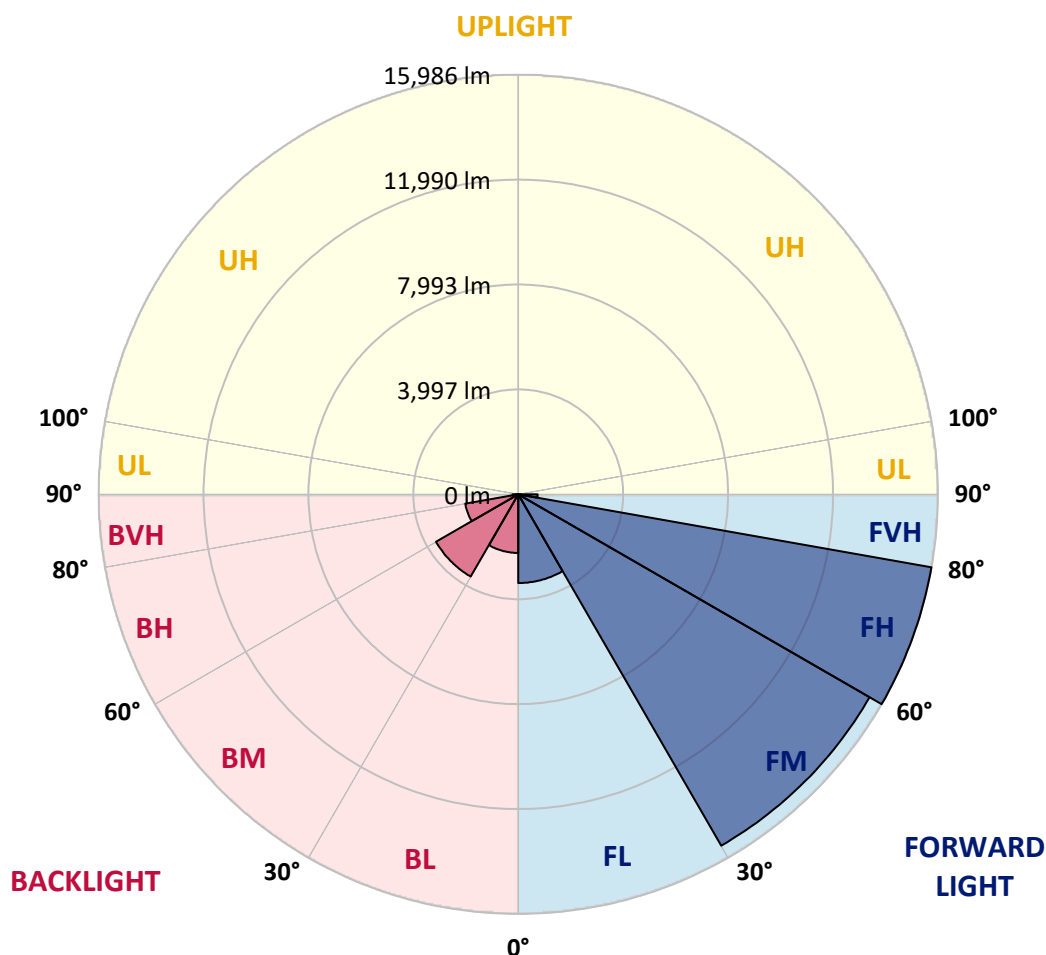
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3379.8	7.7			
FM	(30°-60°)	15455.9	35.4			
FH	(60°-80°)	15986.5	36.6			G5
FVH	(80°-90°)	741.6	1.7			G4/750
BL	(0°-30°)	2233.9	5.1	B3/2500		
BM	(30°-60°)	3617.2	8.3	B3/5000		
BH	(60°-80°)	2050.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	217.6	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7
2.5°	7453.9	7436.2	7458.3	7489.3	7523.3	7569.0	7595.6	7607.4	7653.1	7670.8	7709.2
5°	7108.7	7099.8	7136.7	7189.8	7265.1	7371.3	7456.9	7473.1	7594.1	7679.7	7757.9
7.5°	6857.8	6857.8	6900.6	6964.1	7048.2	7191.3	7312.3	7334.4	7539.5	7723.9	7868.5
10°	6658.7	6666.0	6716.2	6791.4	6890.3	7042.3	7203.1	7228.2	7524.7	7827.2	8057.4
12.5°	6525.9	6543.6	6589.3	6657.2	6779.6	6964.1	7167.7	7201.6	7555.7	7974.7	8284.6
15°	6610.0	6639.5	6643.9	6671.9	6739.8	6940.5	7188.3	7223.7	7622.1	8125.2	8542.8
17.5°	6978.8	6989.2	6943.4	6884.4	6851.9	6980.3	7250.3	7287.2	7701.8	8274.3	8790.7
20°	7539.5	7533.6	7434.7	7275.4	7110.1	7130.8	7352.1	7390.5	7809.5	8405.6	9038.5
22.5°	8247.7	8227.0	8075.1	7781.5	7499.7	7381.6	7530.6	7563.1	7971.8	8593.0	9304.1
25°	9106.4	9060.7	8860.0	8466.1	8051.5	7747.5	7799.2	7830.2	8207.9	8802.5	9547.6
27.5°	10012.3	9966.6	9711.3	9234.8	8683.0	8209.3	8169.5	8196.1	8476.4	8957.4	9727.6
30°	10959.6	10910.9	10677.8	10143.6	9352.8	8687.4	8514.8	8525.1	8665.3	9041.5	9875.1
32.5°	11911.2	11865.5	11604.3	10984.6	10080.2	9200.8	8764.1	8750.8	8778.9	9128.5	10041.8
35°	12876.2	12893.9	12588.4	11902.4	10885.8	9771.8	9059.2	9031.2	8969.2	9307.1	10277.9
37.5°	13909.0	13897.2	13501.7	12784.7	11728.3	10391.5	9482.6	9478.2	9264.3	9644.9	10648.2
40°	14599.5	14606.8	14366.3	13687.6	12579.6	11077.6	10025.6	10015.3	9734.9	10151.0	11133.7
42.5°	14869.5	14918.2	14980.1	14549.3	13470.8	11872.9	10673.3	10658.6	10391.5	10876.9	11704.7
45°	14888.7	14986.0	15369.6	15315.1	14373.7	12783.2	11501.0	11459.7	11267.9	11841.9	12386.3
47.5°	14723.4	14823.7	15461.1	15771.0	15180.8	13743.7	12468.9	12436.5	12271.2	13048.8	13124.0
50°	14361.9	14457.8	15272.3	15993.8	15844.7	14667.3	13584.4	13498.8	13410.3	14443.1	13968.0
52.5°	13684.7	13869.1	15020.0	16046.9	16241.6	15487.7	14757.3	14701.3	14750.0	15914.1	14813.4
55°	12080.9	12287.5	14369.3	16002.6	16535.2	16176.7	15930.3	15927.4	16179.7	17457.4	15720.8
57.5°	11182.4	11328.4	13044.4	15927.4	16883.4	16861.3	17091.5	17119.5	17610.8	19137.9	16671.0
60°	10674.8	10828.2	12373.0	15648.5	17423.5	17746.6	18276.3	18332.3	19065.6	20998.4	17814.4
62.5°	10213.0	10381.2	11957.0	15080.5	18059.4	19012.5	19695.6	19745.8	20606.0	22910.6	18919.6
65°	9423.6	9614.0	11347.6	14707.2	18637.7	20663.5	21500.1	21534.0	22375.0	24914.3	19765.0
67.5°	8308.2	8482.3	10198.2	13882.4	19065.6	22668.6	23899.2	23918.3	24129.3	26329.2	20197.3
70°	7005.4	7071.8	8560.5	12179.7	18559.5	24543.9	26528.4	26532.8	25728.7	27235.1	20126.5
72.5°	4922.1	5078.5	6214.5	9220.0	15949.5	24315.2	27893.2	27943.3	26472.3	26777.7	18518.2
75°	3018.7	3184.0	3898.1	5587.5	10118.6	19123.2	25771.5	26119.7	25078.0	23875.6	15127.7
77.5°	2018.4	2080.4	2543.7	3257.8	4584.2	11002.3	19813.7	20468.8	20833.2	17411.7	9674.5
80°	1125.8	1243.8	1686.4	2024.3	2039.1	4371.7	11880.2	12033.7	11591.0	6933.1	2984.8
82.5°	596.1	661.0	1125.8	1189.2	1112.5	1463.6	4427.8	4432.2	3703.4	1859.1	886.7
85°	461.8	516.4	771.7	725.9	568.0	649.2	1460.7	1540.4	1260.0	761.3	289.2
87.5°	230.2	286.2	523.8	460.3	222.8	185.9	522.3	557.7	497.2	298.0	104.8
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°	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7	7704.7
2.5°	7723.9	7737.2	7753.4	7735.7	7729.8	7706.2	7666.4	7657.5	7636.9	7638.3	7650.2
5°	7791.8	7813.9	7805.1	7737.2	7656.1	7542.4	7424.4	7324.1	7257.7	7253.3	7248.8
7.5°	7921.6	7936.4	7867.0	7673.8	7446.5	7183.9	6936.0	6719.1	6587.8	6555.4	6548.0
10°	8125.2	8122.3	7932.0	7542.4	7089.5	6620.3	6221.9	5920.9	5745.4	5693.7	5680.4
12.5°	8352.5	8318.5	7954.1	7303.4	6584.9	5934.2	5429.6	5094.7	4911.7	4852.7	4838.0
15°	8587.1	8503.0	7899.5	6946.4	5965.2	5195.0	4665.3	4355.5	4256.6	4224.2	4218.3
17.5°	8805.4	8643.1	7743.1	6462.4	5258.5	4458.8	4045.7	3921.7	3945.3	3988.1	3989.6
20°	9019.4	8737.5	7492.3	5851.6	4513.4	3852.4	3712.2	3803.7	3915.8	4002.9	4014.7
22.5°	9230.3	8803.9	7169.2	5146.3	3846.5	3511.5	3610.4	3777.1	3905.5	3999.9	4016.1
25°	9407.4	8820.2	6723.6	4393.9	3383.2	3383.2	3561.7	3719.6	3846.5	3939.4	3955.7
27.5°	9472.3	8711.0	6095.0	3697.4	3150.1	3324.2	3493.8	3625.2	3732.9	3831.7	3849.4
30°	9497.4	8508.9	5369.1	3138.3	3054.2	3260.7	3402.4	3514.5	3616.3	3709.3	3725.5
32.5°	9501.8	8265.4	4598.9	2821.0	2987.8	3194.3	3288.8	3387.6	3496.8	3533.7	3539.6
35°	9529.9	7977.7	3787.5	2658.7	2925.8	3132.4	3207.6	3278.4	3101.4	3114.7	3126.5
37.5°	9611.0	7692.9	3108.7	2567.3	2886.0	3099.9	3189.9	2933.2	2794.5	2762.0	2757.6
40°	9763.0	7389.0	2605.6	2493.5	2871.2	3116.1	3076.3	2738.4	2499.4	2320.9	2294.3
42.5°	9974.0	7061.5	2284.0	2444.8	2881.5	3194.3	2918.4	2551.0	2154.1	2039.1	2024.3
45°	10211.5	6717.7	2109.9	2410.9	2916.9	3254.8	2886.0	2301.7	1993.3	1906.3	1898.9
47.5°	10441.7	6297.2	2019.9	2396.1	2965.6	3206.1	2748.7	2225.0	1916.6	1870.9	1875.3
50°	10705.8	5918.0	1965.3	2379.9	3008.4	3175.1	2593.8	2185.1	1887.1	1943.2	2002.2
52.5°	10928.6	5525.5	1916.6	2347.4	3024.6	3120.6	2554.0	2192.5	1887.1	1994.8	2050.9
55°	11192.7	5229.0	1860.5	2279.6	2993.7	2965.6	2526.0	2236.8	1909.2	1841.3	1847.2
57.5°	11533.5	5131.6	1798.6	2173.3	2890.4	2739.9	2512.7	2279.6	1895.9	1853.2	1867.9
60°	12005.6	5234.9	1773.5	2034.6	2729.6	2562.8	2514.1	2257.4	1803.0	1729.2	1730.7
62.5°	12455.7	5349.9	1772.0	1947.6	2531.9	2405.0	2480.2	2185.1	1755.8	1713.0	1729.2
65°	12603.2	5233.4	1701.2	1850.2	2309.1	2216.1	2418.2	2108.4	1720.4	1655.4	1652.5
67.5°	12405.5	4871.9	1558.1	1692.3	2053.8	1996.3	2337.1	2016.9	1664.3	1611.2	1602.3
70°	11818.3	4064.8	1381.0	1484.3	1763.1	1748.4	2208.7	1910.7	1589.0	1543.3	1504.9
72.5°	10238.1	2896.3	1164.1	1234.9	1435.6	1482.8	2031.7	1772.0	1482.8	1384.0	1324.9
75°	8408.5	2143.8	956.1	970.8	1090.3	1218.7	1788.2	1609.7	1357.4	1189.2	1143.5
77.5°	5149.3	1311.7	761.3	767.2	782.0	972.3	1472.5	1428.2	1198.1	991.5	959.0
80°	1667.2	715.6	550.3	578.4	534.1	712.6	1139.0	1215.8	1028.4	829.2	793.8
82.5°	634.4	417.5	371.8	391.0	370.3	478.0	830.7	973.8	842.5	681.7	554.8
85°	306.9	236.1	219.8	246.4	228.7	244.9	531.2	717.1	638.9	444.1	413.1
87.5°	109.2	104.8	84.1	113.6	97.4	87.1	162.3	361.5	422.0	305.4	273.0
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)