

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: P318652

Luminaire Tested: **GAN-SA8C-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318652
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-SA8C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA 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: 47692 lumens
Efficiency: N/A
Efficacy: 107.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

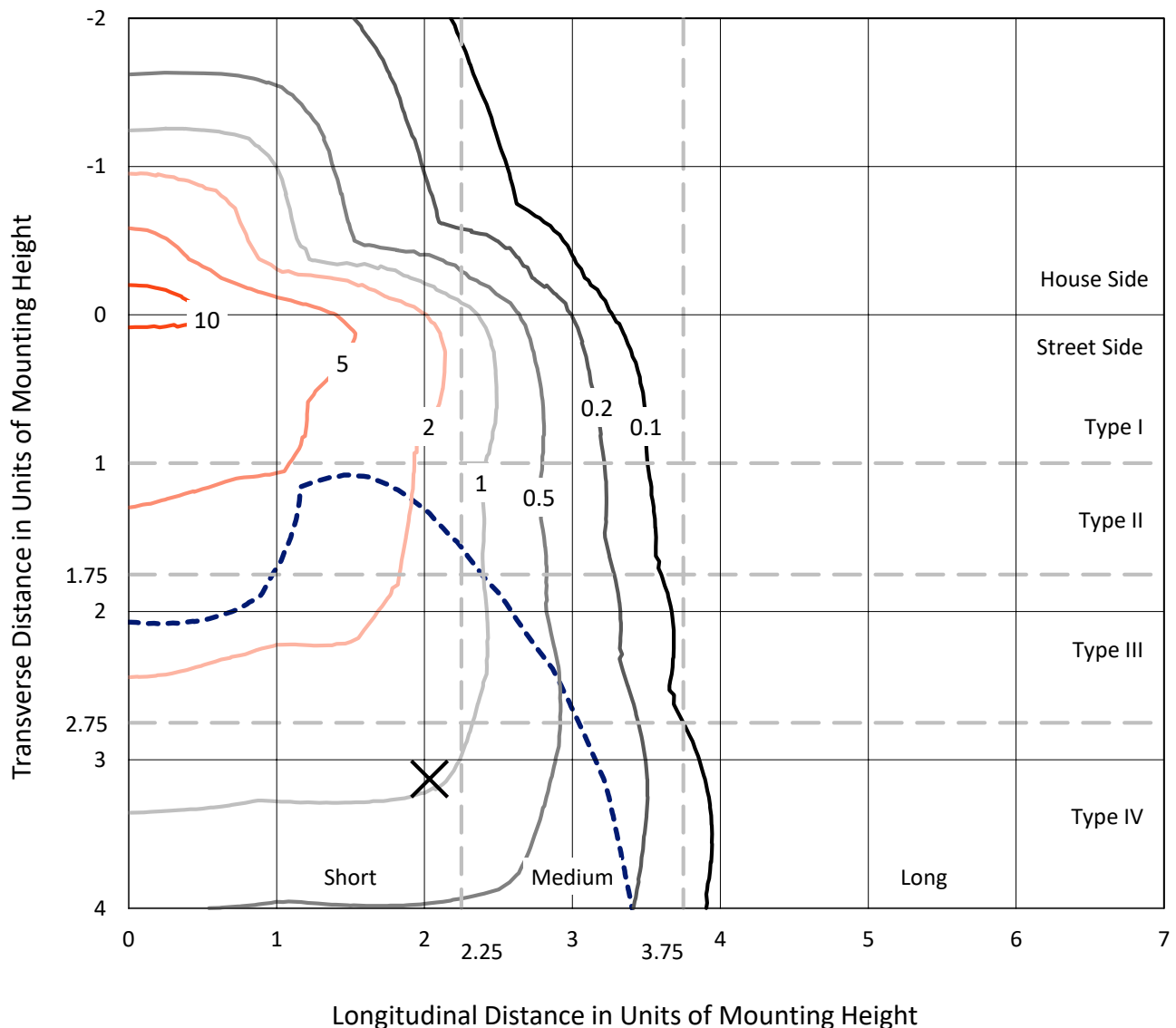
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

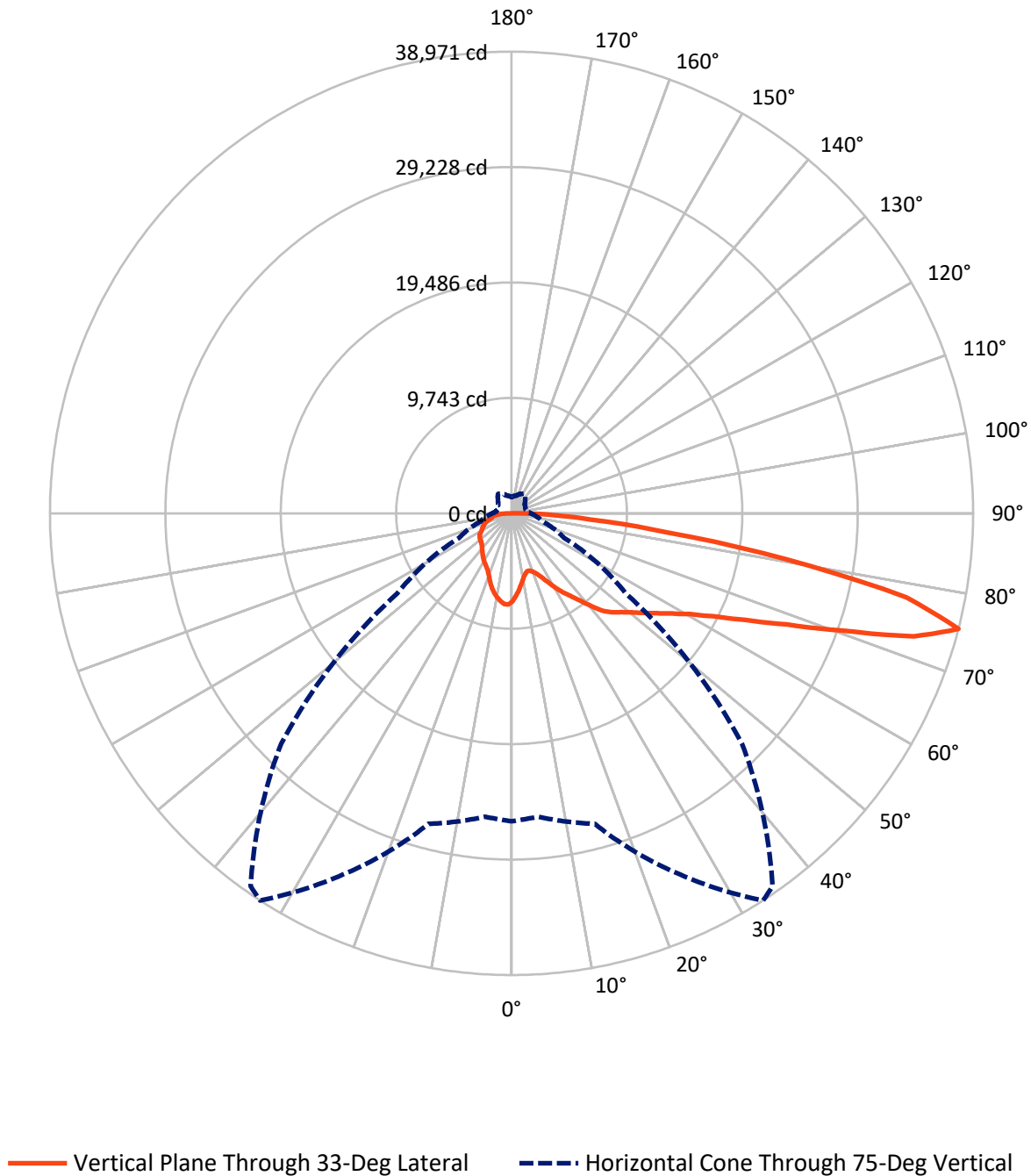
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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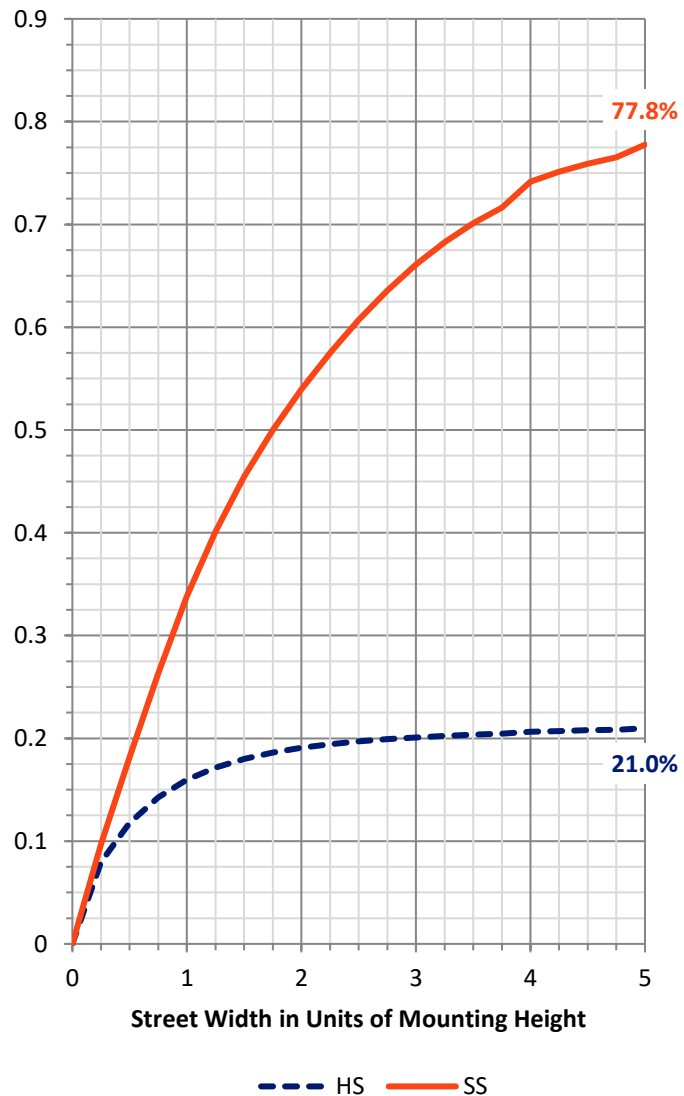
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10240.7	0.0	10240.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	37451.3	0.0	37451.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	47692.0	0.0	47692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.2	1.4
10°-20°	1825.9	3.8
20°-30°	2982.0	6.3
30°-40°	4440.9	9.3
40°-50°	6369.5	13.4
50°-60°	8744.3	18.3
60°-70°	10947.5	23.0
70°-80°	9903.7	20.8
80°-90°	1804.0	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°	47692.0	100.0
0°-180°	47692.0	100.0

Coefficient of Utilization



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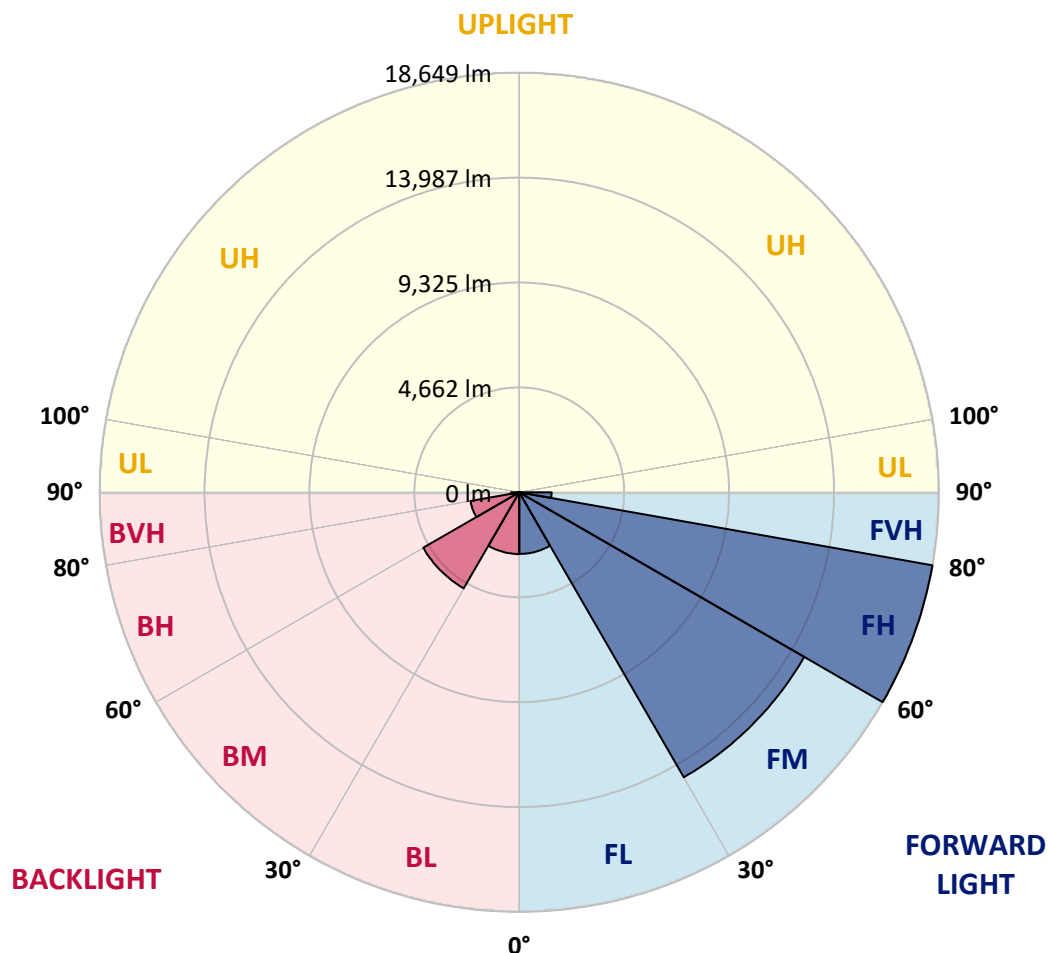
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2739.2	5.7			
FM	(30°-60°)	14626.1	30.7			
FH	(60°-80°)	18649.2	39.1			G5
FVH	(80°-90°)	1436.7	3.0			G5
BL	(0°-30°)	2742.9	5.8	B4/5000		
BM	(30°-60°)	4928.6	10.3	B3/5000		
BH	(60°-80°)	2201.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	367.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5
2.5°	6922.4	6896.1	6945.5	6952.1	6994.9	7011.4	7070.7	7162.9	7238.7	7326.0	7405.1
5°	6294.8	6276.6	6345.8	6395.2	6489.1	6528.7	6668.7	6864.8	7039.4	7237.1	7416.6
7.5°	5698.4	5688.5	5765.9	5878.0	5986.7	6041.0	6283.2	6568.2	6859.8	7179.4	7454.5
10°	5195.9	5192.6	5266.8	5377.1	5536.9	5597.9	5910.9	6286.5	6695.1	7134.9	7518.8
12.5°	4914.2	4925.8	4960.3	5052.6	5200.9	5261.8	5609.4	6050.9	6556.7	7120.1	7612.7
15°	4983.4	5001.5	4942.2	4938.9	5044.4	5092.1	5418.3	5882.9	6457.8	7144.8	7749.4
17.5°	5278.3	5281.6	5125.1	5026.2	5090.5	5115.2	5359.0	5787.3	6400.2	7200.8	7920.7
20°	5693.4	5685.2	5408.4	5243.7	5278.3	5284.9	5443.0	5789.0	6395.2	7298.0	8143.1
22.5°	6243.7	6182.7	5810.4	5586.4	5578.1	5568.2	5658.9	5910.9	6467.7	7456.2	8408.4
25°	6962.0	6904.3	6391.9	6085.5	6019.6	5994.9	6008.1	6171.2	6611.1	7625.9	8704.9
27.5°	7760.9	7660.5	7166.2	6733.0	6596.2	6561.6	6482.6	6538.6	6767.6	7789.0	9057.5
30°	8429.8	8375.4	7943.8	7429.8	7268.4	7218.9	7011.4	6950.4	6993.3	8011.4	9502.3
32.5°	8803.8	8767.5	8505.6	8090.4	7940.5	7871.3	7578.1	7456.2	7355.7	8362.2	10105.2
35°	9256.8	9233.7	9075.6	8774.1	8551.7	8479.2	8251.9	8125.0	7866.4	8844.9	10884.4
37.5°	9833.4	9808.7	9812.0	9568.2	9302.9	9235.4	9085.5	8952.0	8528.6	9479.2	11731.2
40°	10485.8	10438.0	10419.9	10408.3	10240.3	10202.4	10123.3	9942.1	9358.9	10237.0	12566.4
42.5°	11467.6	11297.9	10935.5	11072.2	11238.6	11218.9	11283.1	11022.8	10281.5	11133.2	13381.9
45°	12414.9	12136.5	11510.4	11540.1	11904.2	12014.6	12495.6	12311.1	11281.5	12115.0	14225.4
47.5°	12846.5	12635.6	12103.5	12105.2	12465.9	12694.9	13749.3	13617.5	12332.5	13230.3	15255.0
50°	13329.2	13118.3	12640.6	12820.1	13134.8	13378.6	14960.1	14892.6	13332.5	14451.1	16488.9
52.5°	13856.4	13498.9	13195.7	13517.0	13958.5	14241.9	16172.6	15988.1	14250.1	15680.0	17907.3
55°	13862.9	13765.8	13996.4	14232.0	14892.6	15240.2	17442.8	16955.1	14998.0	16887.6	19062.2
57.5°	14652.1	14493.9	14983.2	15091.9	15955.2	16347.2	18706.3	17797.0	15759.1	17813.4	19684.9
60°	15696.5	15561.4	15961.7	16248.4	17269.8	17793.7	20055.6	18661.9	16357.1	18511.9	19655.2
62.5°	17500.4	17347.2	17342.3	17744.2	19119.8	19729.4	21569.5	19510.3	16594.4	18650.3	18816.7
65°	20141.2	19897.4	19437.8	19628.9	21675.0	22282.9	23261.4	20124.8	16281.3	17909.0	16657.0
67.5°	22711.2	22702.9	22137.9	22530.0	25048.9	25536.5	25188.9	20185.7	15304.4	15327.5	12825.1
70°	25272.9	25305.9	25210.3	26574.4	29607.2	30114.6	27241.6	19366.9	13108.4	11068.9	7683.5
72.5°	27302.5	27294.3	27775.3	31292.5	35523.1	35409.4	28971.3	16885.9	9411.6	5975.2	3672.1
75°	25987.9	25701.2	27134.5	33628.6	38971.1	38415.9	27500.2	11779.0	4884.6	2719.9	1976.9
77.5°	16950.2	17222.0	19325.8	27780.3	34088.2	33412.8	20175.8	5495.8	2301.4	1784.1	1433.2
80°	6138.2	6424.9	9049.2	15736.1	23485.5	23375.1	9935.5	2258.6	1556.8	1347.6	1044.5
82.5°	2112.0	2217.4	3569.9	6988.3	13260.0	13754.2	3738.0	1283.3	1131.8	955.5	715.0
85°	828.6	948.9	1632.6	3362.4	6688.5	6737.9	1514.0	767.7	787.5	626.0	392.1
87.5°	314.7	382.2	780.9	1561.7	3054.3	2805.5	542.0	365.7	448.1	372.3	186.2
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°	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5	7454.5
2.5°	7466.1	7500.7	7573.1	7622.6	7675.3	7690.1	7696.7	7709.9	7723.1	7718.1	7719.8
5°	7512.2	7579.7	7696.7	7746.1	7769.2	7742.8	7691.8	7650.6	7620.9	7604.4	7599.5
7.5°	7588.0	7683.5	7808.7	7800.5	7747.8	7630.8	7499.0	7400.2	7317.8	7288.1	7271.7
10°	7688.5	7800.5	7887.8	7793.9	7640.7	7438.1	7240.4	7087.2	6963.6	6915.8	6907.6
12.5°	7817.0	7930.6	7947.1	7747.8	7494.1	7217.3	6948.8	6746.1	6561.6	6502.3	6489.1
15°	7983.3	8090.4	7988.3	7667.0	7312.8	6940.5	6592.9	6317.8	6123.4	6050.9	6024.6
17.5°	8158.0	8260.1	7996.5	7533.6	7075.6	6612.7	6176.1	5894.4	5672.0	5588.0	5578.1
20°	8367.2	8413.3	7961.9	7342.5	6749.4	6187.7	5728.0	5462.8	5344.2	5284.9	5278.3
22.5°	8625.8	8576.4	7882.9	7083.9	6335.9	5696.7	5322.8	5199.2	5169.6	5156.4	5161.3
25°	8899.3	8747.7	7765.9	6746.1	5813.7	5205.8	5026.2	5060.8	5100.4	5095.4	5095.4
27.5°	9200.8	8922.4	7586.3	6298.0	5235.5	4803.8	4825.3	4952.1	5011.4	5009.8	5008.1
30°	9587.9	9120.1	7357.3	5759.3	4695.1	4520.5	4650.6	4805.5	4886.2	4882.9	4884.6
32.5°	10064.0	9337.5	7046.0	5158.0	4304.7	4311.3	4461.2	4614.4	4708.3	4700.1	4701.7
35°	10620.8	9581.3	6624.2	4565.0	4046.0	4144.9	4263.5	4370.6	4459.5	4448.0	4436.5
37.5°	11227.1	9820.2	6064.1	4034.5	3835.2	3990.0	4088.9	4107.0	4148.2	4118.5	4097.1
40°	11803.7	10003.1	5342.5	3599.6	3622.7	3858.2	3922.5	3850.0	3775.9	3766.0	3736.3
42.5°	12306.1	10064.0	4612.7	3252.0	3398.6	3719.9	3759.4	3607.8	3474.4	3411.8	3385.4
45°	12836.6	10085.4	3932.4	2960.4	3182.8	3596.3	3639.1	3436.5	3248.7	3113.6	3069.1
47.5°	13530.2	10240.3	3403.5	2744.6	3018.1	3513.9	3574.9	3299.8	3055.9	2863.2	2822.0
50°	14437.9	10546.7	2973.6	2579.8	2911.0	3459.6	3528.8	3166.3	2897.8	2665.5	2624.3
52.5°	15446.1	10828.4	2626.0	2446.4	2807.2	3364.0	3469.4	3070.8	2749.5	2482.6	2438.2
55°	16151.2	10612.6	2345.9	2308.0	2672.1	3227.3	3387.1	2990.0	2537.0	2304.7	2265.2
57.5°	16286.3	9874.6	2133.4	2164.7	2509.0	3055.9	3260.2	2810.5	2421.7	2227.3	2186.1
60°	15917.3	8846.6	1975.2	2032.9	2334.4	2840.1	3023.0	2683.6	2311.3	2144.9	2110.3
62.5°	14989.8	7793.9	1858.3	1914.3	2171.3	2621.0	2874.7	2550.2	2199.3	2051.0	2016.4
65°	13116.7	6543.5	1746.3	1808.9	2019.7	2431.6	2741.3	2426.6	2088.9	1975.2	1942.3
67.5°	9900.9	4901.0	1640.8	1696.8	1884.6	2266.8	2596.3	2304.7	1981.8	1909.3	1869.8
70°	5830.2	3069.1	1520.6	1579.9	1743.0	2095.5	2441.5	2171.3	1848.4	1815.4	1764.4
72.5°	2713.3	1846.7	1383.8	1441.5	1565.0	1866.5	2242.1	1996.7	1690.2	1617.8	1548.6
75°	1619.4	1350.9	1222.4	1273.4	1360.8	1622.7	1991.7	1818.7	1540.3	1444.8	1372.3
77.5°	1210.8	1032.9	1044.5	1098.8	1169.7	1420.1	1764.4	1678.7	1425.0	1350.9	1301.5
80°	871.5	784.2	851.7	911.0	985.2	1291.6	1690.2	1551.9	1288.3	1189.4	1143.3
82.5°	581.5	563.4	640.8	701.8	774.3	1130.1	1588.1	1359.1	1100.5	975.3	873.1
85°	321.2	339.4	431.6	458.0	520.6	795.7	1301.5	1092.2	828.6	667.2	637.5
87.5°	133.4	156.5	232.3	224.0	276.8	474.5	856.7	659.0	527.2	393.7	306.4
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)