

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: P317859

Luminaire Tested: **GAN-SA5D-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317859
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-SA5D-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39650 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

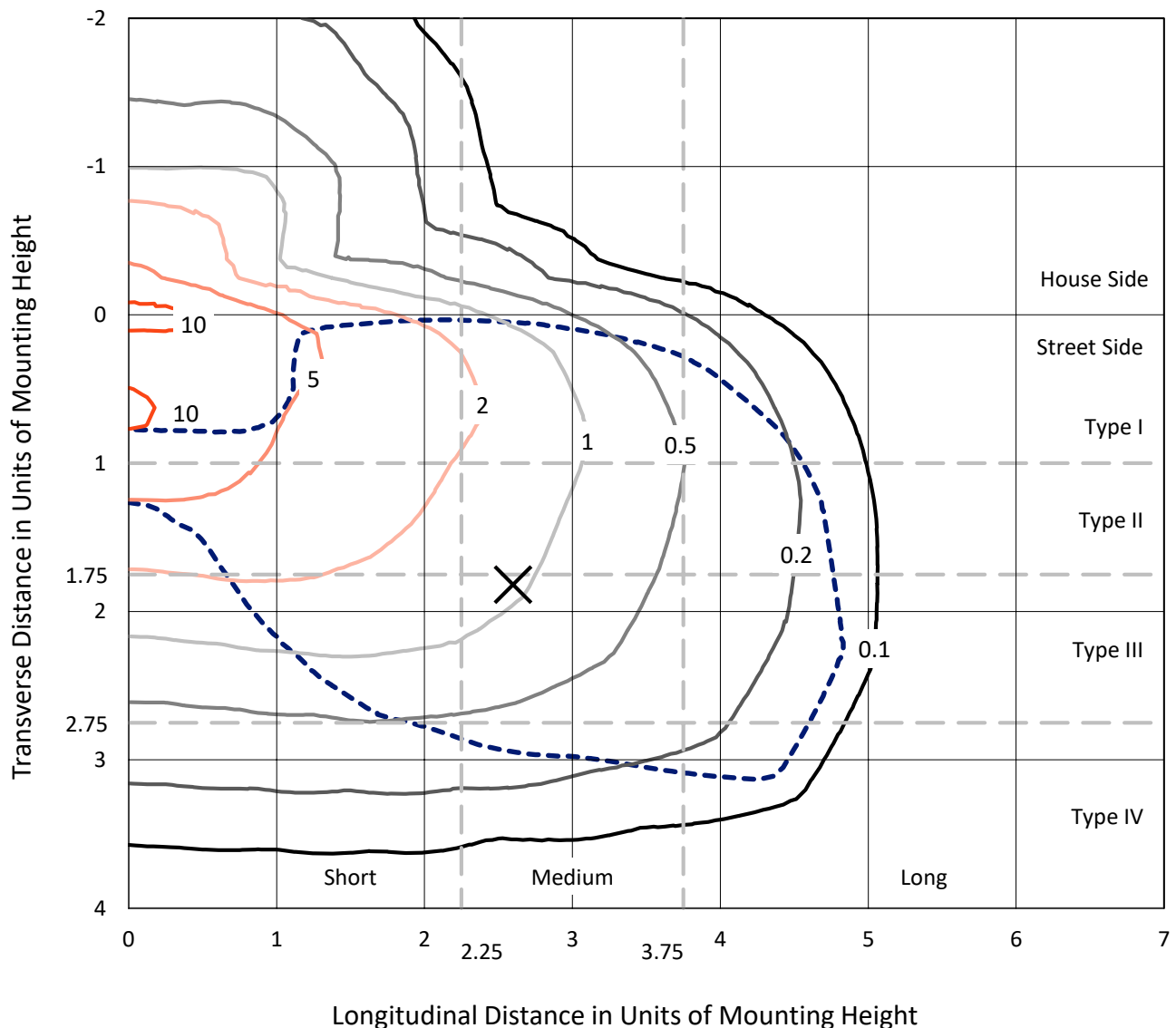
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

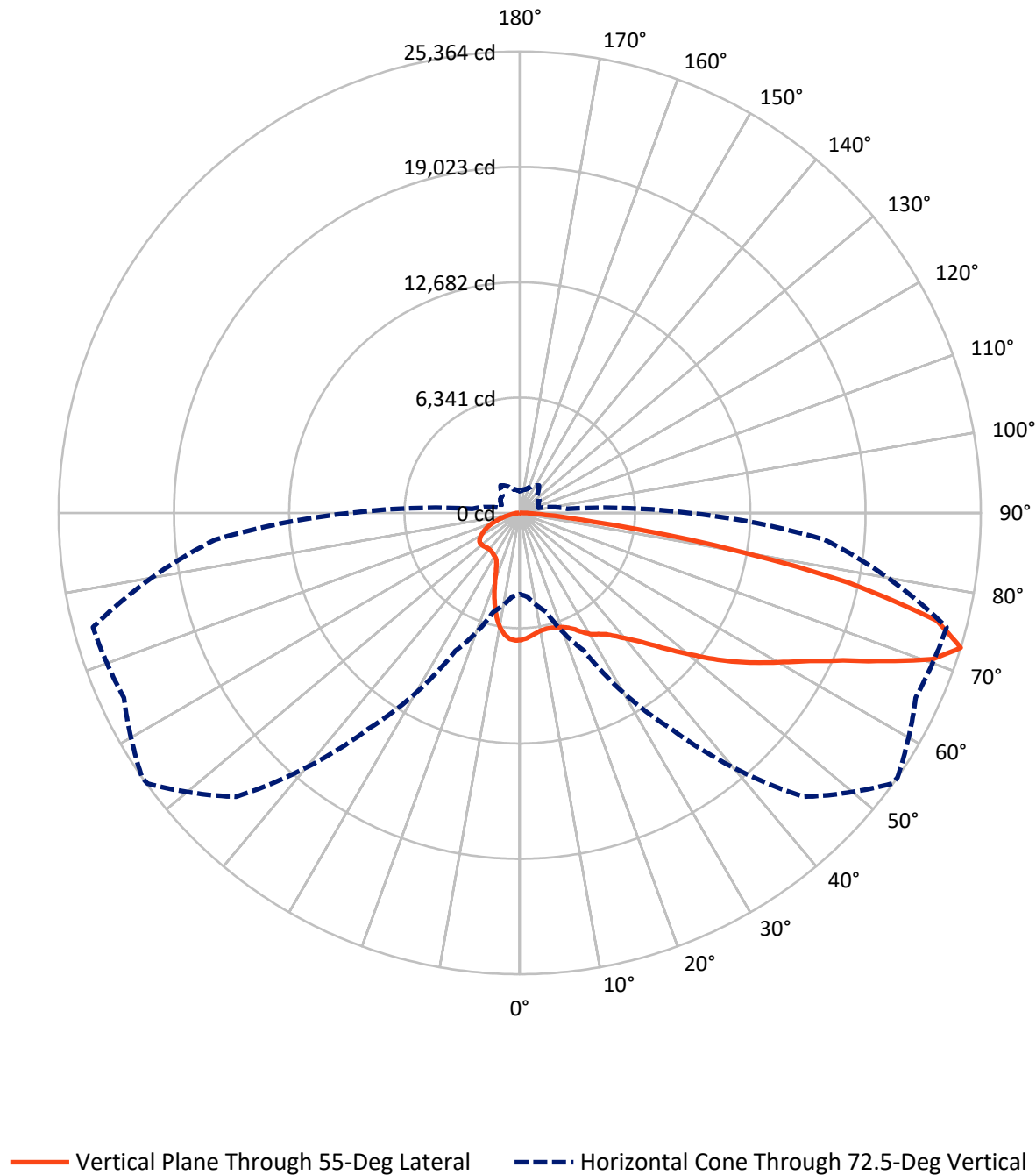
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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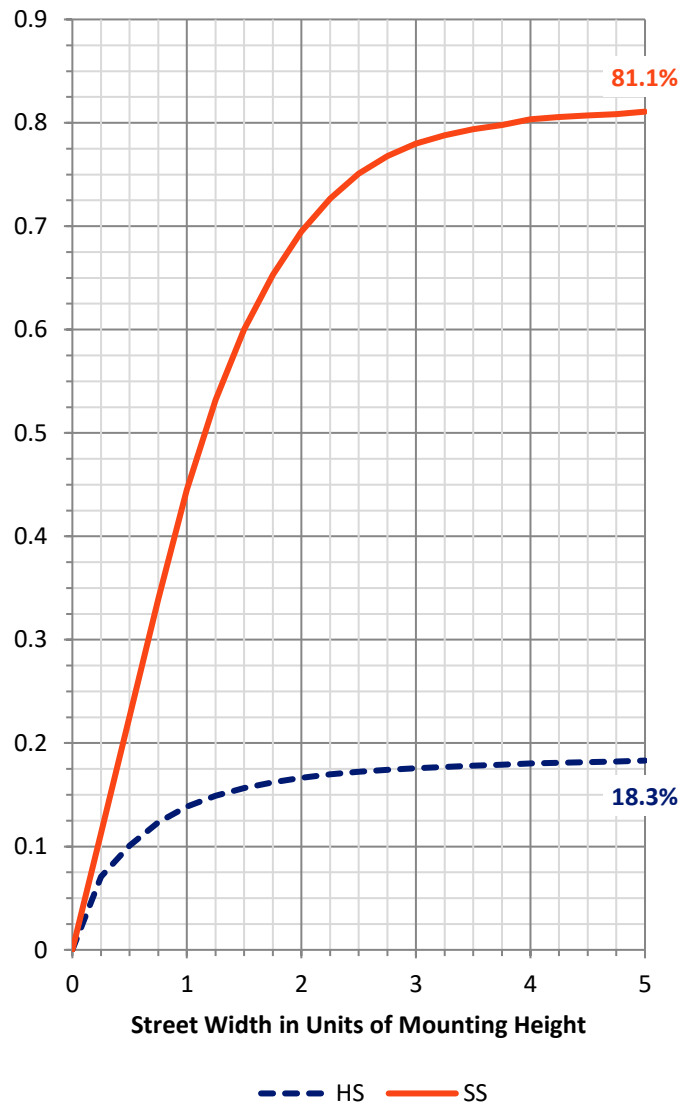
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7369.6	0.0	7369.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	32280.4	0.0	32280.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	39650.0	0.0	39650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	1.6
10°-20°	1684.8	4.2
20°-30°	2777.8	7.0
30°-40°	4109.1	10.4
40°-50°	5735.4	14.5
50°-60°	7467.7	18.8
60°-70°	9177.6	23.1
70°-80°	7194.1	18.1
80°-90°	870.6	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°	39650.0	100.0
0°-180°	39650.0	100.0

Coefficient of Utilization



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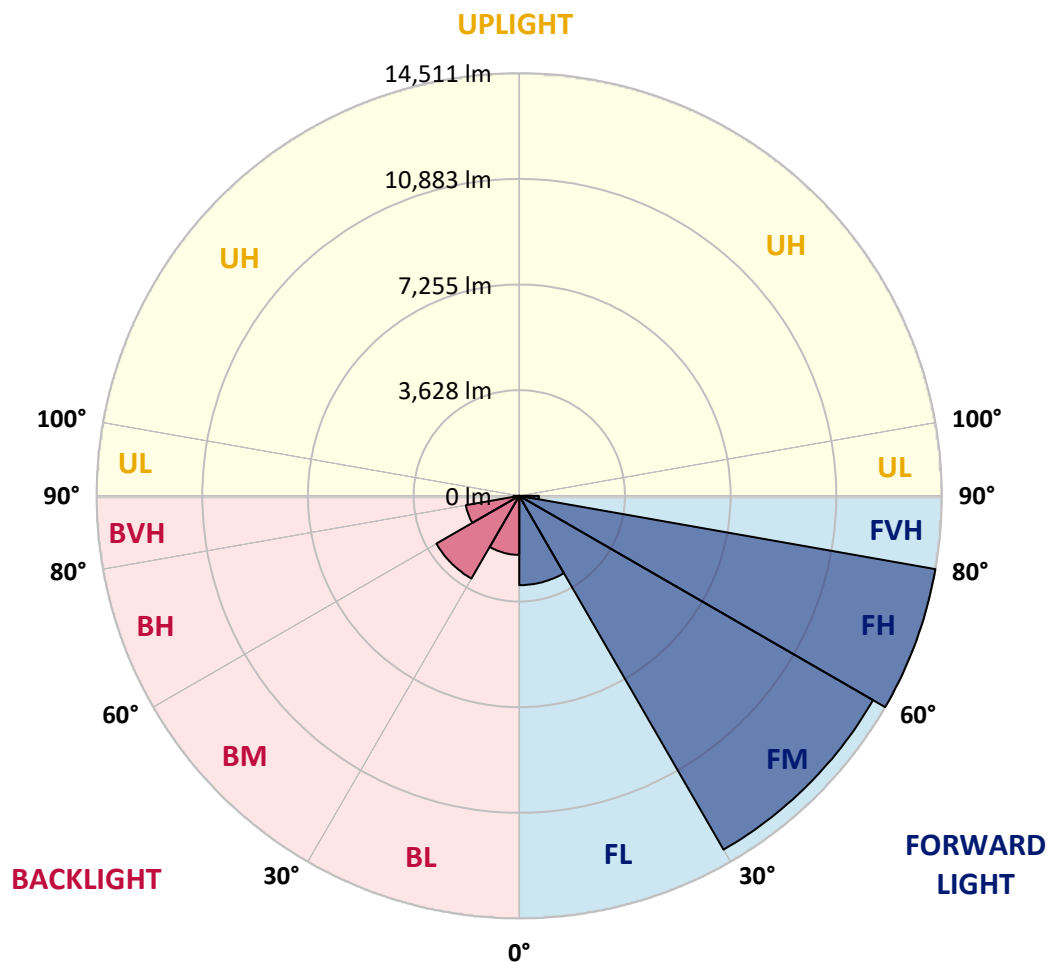
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3067.7	7.7			
FM	(30°-60°)	14029.0	35.4			
FH	(60°-80°)	14510.6	36.6			G5
FVH	(80°-90°)	673.1	1.7			G4/750
BL	(0°-30°)	2027.7	5.1	B3/2500		
BM	(30°-60°)	3283.3	8.3	B3/5000		
BH	(60°-80°)	1861.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	197.5	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°	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4
2.5°	6765.7	6749.7	6769.8	6797.9	6828.7	6870.2	6894.3	6905.0	6946.5	6962.6	6997.4
5°	6452.4	6444.3	6477.8	6526.0	6594.3	6690.7	6768.4	6783.1	6893.0	6970.6	7041.6
7.5°	6224.7	6224.7	6263.5	6321.1	6397.5	6527.4	6637.2	6657.3	6843.4	7010.8	7142.1
10°	6043.9	6050.6	6096.1	6164.4	6254.2	6392.1	6538.1	6560.8	6830.0	7104.6	7313.5
12.5°	5923.4	5939.4	5981.0	6042.6	6153.7	6321.1	6505.9	6536.7	6858.1	7238.5	7519.7
15°	5999.7	6026.5	6030.5	6056.0	6117.6	6299.7	6524.7	6556.8	6918.4	7375.1	7754.1
17.5°	6334.5	6343.9	6302.4	6248.8	6219.3	6335.8	6580.9	6614.4	6990.7	7510.3	7979.1
20°	6843.4	6838.1	6748.3	6603.7	6453.7	6472.5	6673.3	6708.2	7088.5	7629.5	8204.1
22.5°	7486.2	7467.5	7329.6	7063.0	6807.3	6700.1	6835.4	6864.8	7235.8	7799.6	8445.1
25°	8265.7	8224.2	8042.0	7684.4	7308.1	7032.2	7079.1	7107.2	7450.1	7989.8	8666.1
27.5°	9087.9	9046.4	8814.7	8382.2	7881.3	7451.4	7415.3	7439.4	7693.8	8130.4	8829.5
30°	9947.7	9903.5	9691.9	9207.1	8489.3	7885.3	7728.6	7738.0	7865.2	8206.7	8963.4
32.5°	10811.5	10770.0	10533.0	9970.5	9149.6	8351.4	7955.0	7942.9	7968.4	8285.8	9114.7
35°	11687.4	11703.4	11426.2	10803.5	9880.8	8869.7	8222.8	8197.4	8141.1	8447.8	9329.0
37.5°	12624.8	12614.1	12255.2	11604.3	10645.5	9432.1	8607.2	8603.1	8409.0	8754.5	9665.2
40°	13251.6	13258.3	13040.0	12423.9	11418.2	10054.9	9100.0	9090.6	8836.2	9213.8	10105.8
42.5°	13496.7	13540.9	13597.1	13206.0	12227.1	10776.7	9687.9	9674.5	9432.1	9872.7	10624.0
45°	13514.1	13602.5	13950.7	13901.1	13046.7	11603.0	10439.2	10401.7	10227.6	10748.6	11242.8
47.5°	13364.1	13455.1	14033.7	14314.9	13779.2	12474.8	11317.7	11288.3	11138.3	11844.1	11912.4
50°	13036.0	13123.0	13862.3	14517.1	14381.9	13313.2	12330.2	12252.5	12172.2	13109.6	12678.4
52.5°	12421.3	12588.7	13633.3	14565.4	14742.1	14057.8	13394.9	13344.0	13388.2	14444.8	13445.8
55°	10965.5	11153.0	13042.7	14525.2	15008.6	14683.2	14459.6	14456.9	14685.9	15845.7	14269.4
57.5°	10149.9	10282.5	11840.0	14456.9	15324.7	15304.6	15513.5	15539.0	15984.9	17371.0	15131.8
60°	9689.3	9828.5	11230.7	14203.8	15814.8	16108.1	16588.9	16639.8	17305.4	19059.8	16169.7
62.5°	9270.1	9422.8	10853.0	13688.2	16392.1	17257.2	17877.2	17922.8	18703.5	20795.4	17172.8
65°	8553.6	8726.4	10299.9	13349.3	16917.0	18755.8	19515.1	19545.9	20309.3	22614.1	17940.2
67.5°	7541.1	7699.2	9256.7	12600.7	17305.4	20575.8	21692.7	21710.1	21901.6	23898.4	18332.6
70°	6358.6	6418.9	7770.2	11055.3	16846.0	22277.9	24079.2	24083.2	23353.3	24720.7	18268.3
72.5°	4467.6	4609.6	5640.8	8368.8	14477.0	22070.3	25318.0	25363.5	24028.3	24305.5	16808.6
75°	2740.0	2890.0	3538.2	5071.6	9184.4	17357.6	23392.2	23708.2	22762.7	21671.3	13731.0
77.5°	1832.1	1888.3	2308.8	2957.0	4161.0	9986.6	17984.4	18579.0	18909.8	15804.1	8781.3
80°	1021.8	1129.0	1530.7	1837.4	1850.8	3968.1	10783.4	10922.7	10520.9	6293.0	2709.2
82.5°	541.0	600.0	1021.8	1079.4	1009.8	1328.5	4019.0	4023.0	3361.4	1687.4	804.9
85°	419.2	468.7	700.4	658.9	515.6	589.3	1325.8	1398.1	1143.7	691.0	262.5
87.5°	208.9	259.8	475.4	417.8	202.2	168.7	474.1	506.2	451.3	270.5	95.1
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°	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4	6993.4
2.5°	7010.8	7022.9	7037.6	7021.5	7016.2	6994.7	6958.6	6950.6	6931.8	6933.1	6943.9
5°	7072.4	7092.5	7084.5	7022.9	6949.2	6846.1	6739.0	6647.9	6587.6	6583.6	6579.6
7.5°	7190.3	7203.7	7140.7	6965.3	6759.0	6520.7	6295.7	6098.8	5979.6	5950.2	5943.5
10°	7375.1	7372.4	7199.6	6846.1	6435.0	6009.1	5647.5	5374.3	5214.9	5168.1	5156.0
12.5°	7581.3	7550.5	7219.7	6629.1	5976.9	5386.3	4928.3	4624.3	4458.3	4404.7	4391.3
15°	7794.3	7717.9	7170.2	6305.0	5414.5	4715.4	4234.6	3953.4	3863.6	3834.2	3828.8
17.5°	7992.5	7845.2	7028.2	5865.8	4773.0	4047.1	3672.1	3559.6	3581.1	3619.9	3621.3
20°	8186.7	7930.9	6800.6	5311.3	4096.7	3496.7	3369.5	3452.5	3554.3	3633.3	3644.0
22.5°	8378.2	7991.1	6507.3	4671.2	3491.3	3187.3	3277.1	3428.4	3544.9	3630.6	3645.4
25°	8538.9	8005.9	6102.8	3988.2	3070.8	3070.8	3232.9	3376.2	3491.3	3575.7	3590.4
27.5°	8597.8	7906.8	5532.3	3356.1	2859.2	3017.3	3171.3	3290.5	3388.2	3478.0	3494.0
30°	8620.6	7723.3	4873.4	2848.5	2772.2	2959.7	3088.2	3190.0	3282.4	3366.8	3381.5
32.5°	8624.6	7502.3	4174.3	2560.6	2711.9	2899.4	2985.1	3074.8	3174.0	3207.4	3212.8
35°	8650.0	7241.2	3437.8	2413.3	2655.7	2843.2	2911.5	2975.7	2815.0	2827.1	2837.8
37.5°	8723.7	6982.7	2821.7	2330.2	2619.5	2813.7	2895.4	2662.4	2536.5	2507.0	2503.0
40°	8861.6	6706.8	2365.1	2263.3	2606.1	2828.4	2792.3	2485.6	2268.6	2106.6	2082.5
42.5°	9053.1	6409.5	2073.1	2219.1	2615.5	2899.4	2649.0	2315.5	1955.3	1850.8	1837.4
45°	9268.7	6097.5	1915.1	2188.3	2647.6	2954.3	2619.5	2089.2	1809.3	1730.3	1723.6
47.5°	9477.7	5715.8	1833.4	2174.9	2691.8	2910.1	2495.0	2019.5	1739.6	1698.1	1702.1
50°	9717.4	5371.6	1783.8	2160.2	2730.7	2882.0	2354.3	1983.4	1712.9	1763.8	1817.3
52.5°	9919.6	5015.4	1739.6	2130.7	2745.4	2832.5	2318.2	1990.1	1712.9	1810.6	1861.5
55°	10159.3	4746.2	1688.8	2069.1	2717.3	2691.8	2292.7	2030.3	1733.0	1671.3	1676.7
57.5°	10468.7	4657.8	1632.5	1972.7	2623.5	2486.9	2280.7	2069.1	1720.9	1682.1	1695.5
60°	10897.2	4751.6	1609.7	1846.8	2477.6	2326.2	2282.0	2049.0	1636.5	1569.6	1570.9
62.5°	11305.7	4856.0	1608.4	1767.8	2298.1	2182.9	2251.2	1983.4	1593.7	1554.8	1569.6
65°	11439.6	4750.2	1544.1	1679.4	2095.9	2011.5	2195.0	1913.7	1561.5	1502.6	1499.9
67.5°	11260.2	4422.1	1414.2	1536.1	1864.2	1812.0	2121.3	1830.7	1510.6	1462.4	1454.4
70°	10727.2	3689.6	1253.5	1347.3	1600.4	1587.0	2004.8	1734.3	1442.3	1400.8	1366.0
72.5°	9292.8	2628.9	1056.6	1120.9	1303.1	1345.9	1844.1	1608.4	1345.9	1256.2	1202.6
75°	7632.2	1945.9	867.8	881.2	989.7	1106.2	1623.1	1461.1	1232.1	1079.4	1037.9
77.5°	4673.9	1190.6	691.0	696.4	709.8	882.5	1336.5	1296.4	1087.4	900.0	870.5
80°	1513.3	649.5	499.5	525.0	484.8	646.8	1033.9	1103.5	933.4	752.6	720.5
82.5°	575.9	379.0	337.5	354.9	336.1	433.9	754.0	883.9	764.7	618.7	503.5
85°	278.6	214.3	199.5	223.6	207.6	222.3	482.1	650.9	579.9	403.1	375.0
87.5°	99.1	95.1	76.3	103.1	88.4	79.0	147.3	328.1	383.0	277.2	247.8
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)