

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: P321094

Luminaire Tested: **GAN-SA0C-827-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321094
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52799 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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



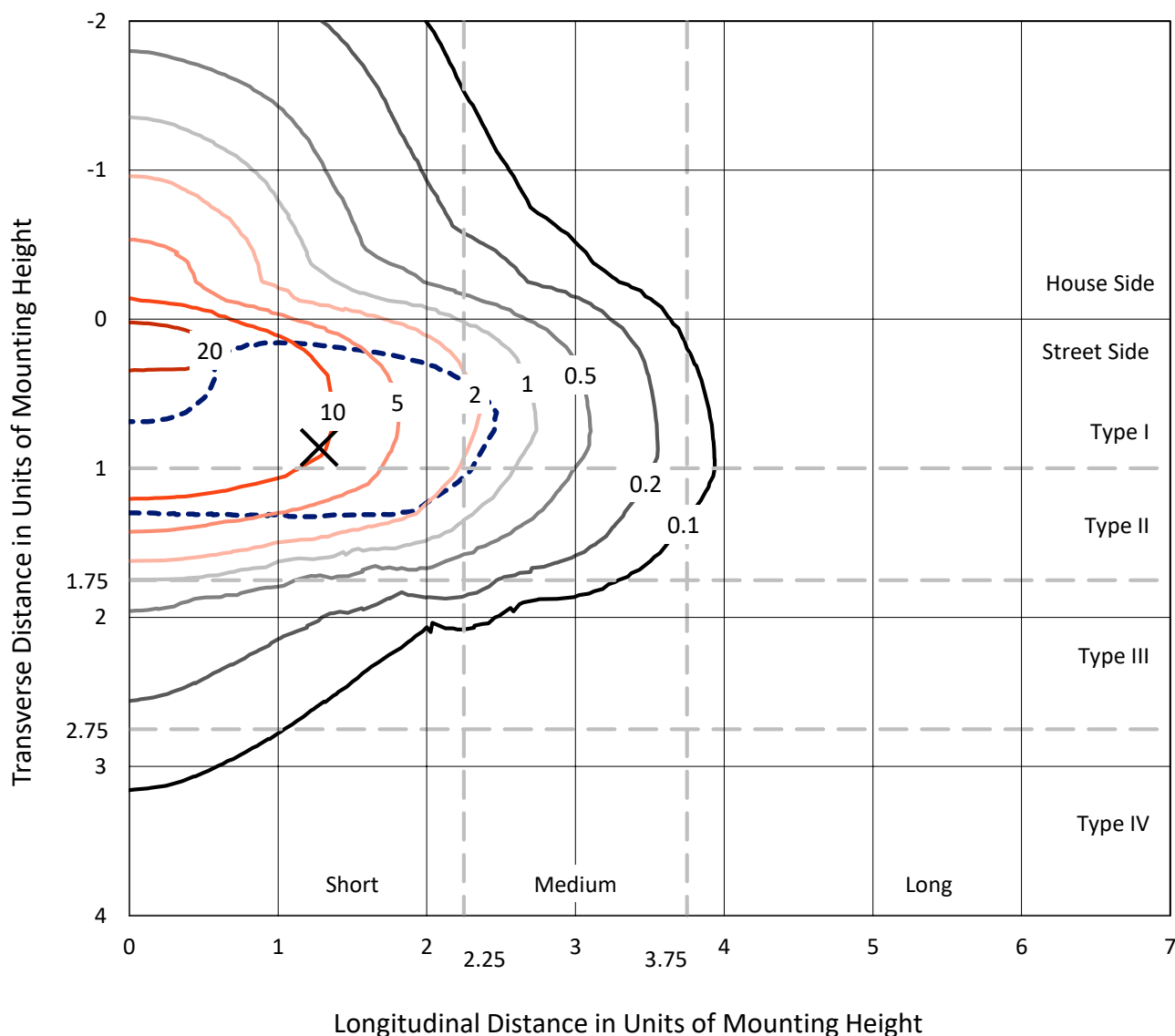
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

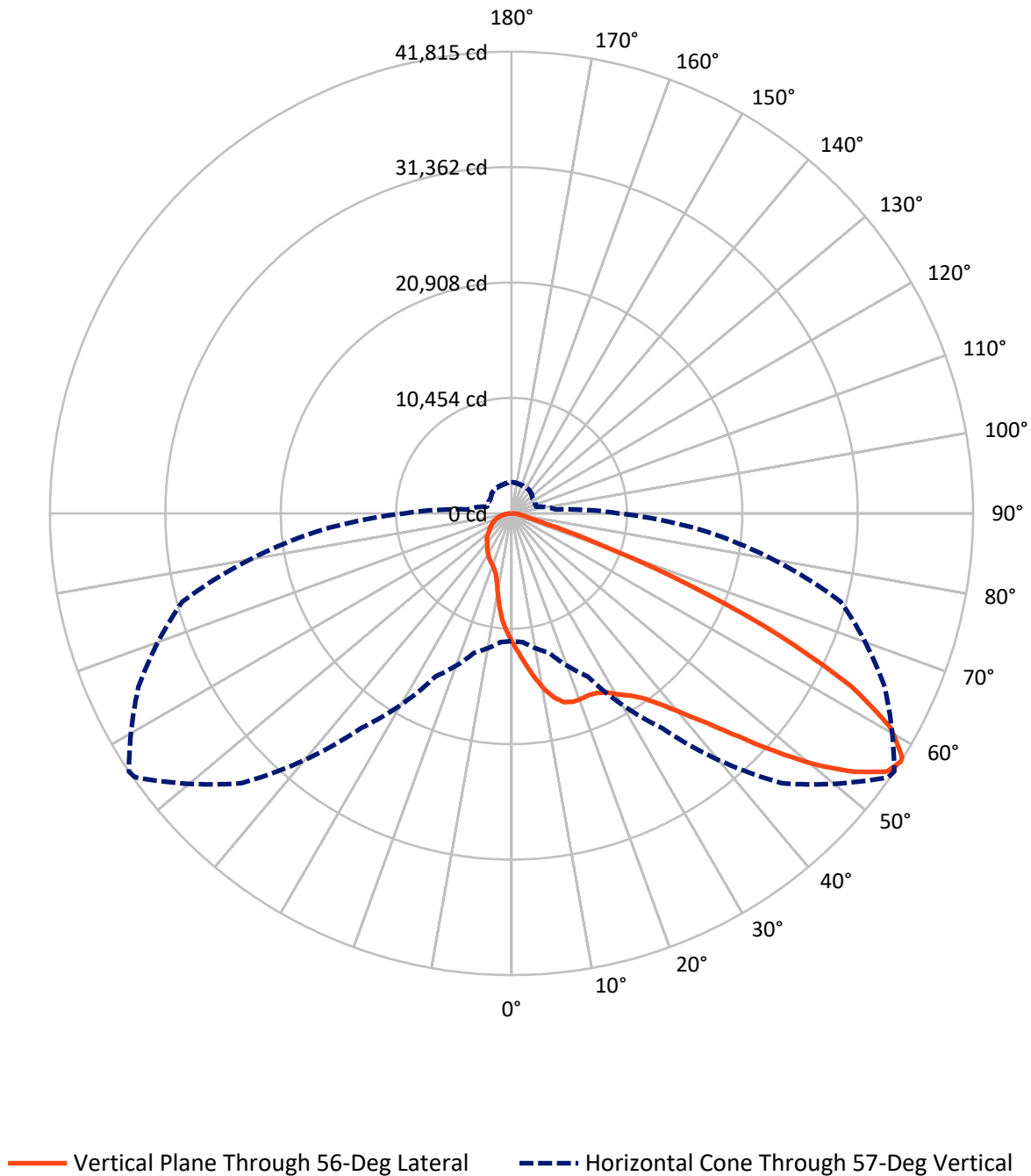


Based on 25 foot mounting height. Maximum calculated value = 26 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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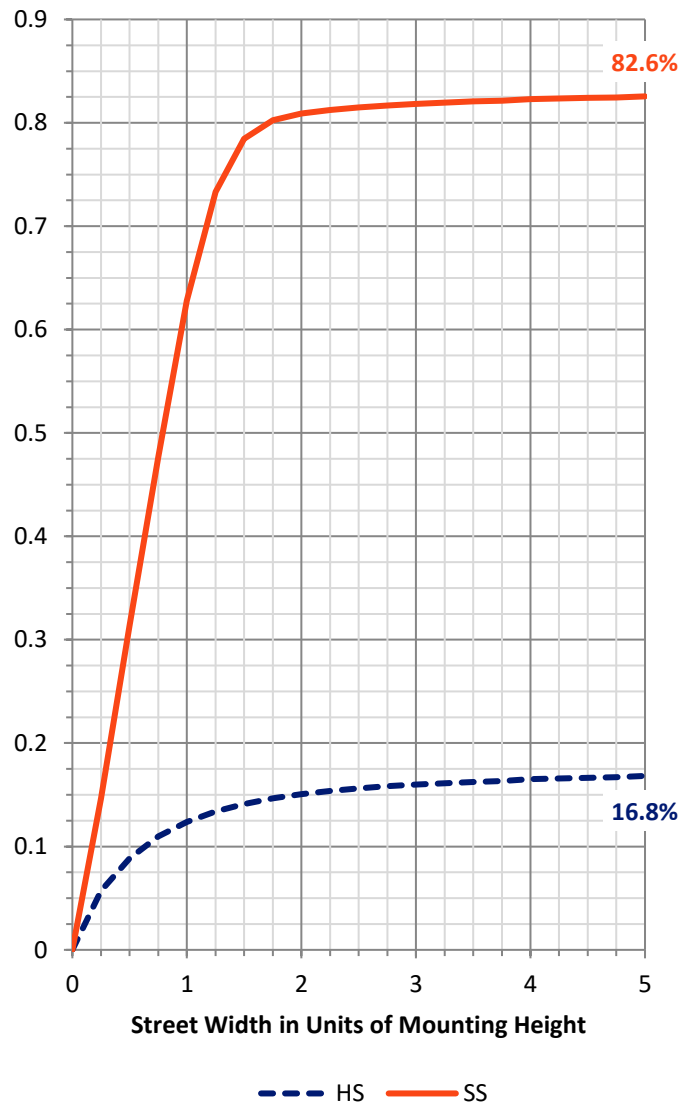
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9101.4	0.0	9101.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	43697.6	0.0	43697.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	52799.0	0.0	52799.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1118.7	2.1
10°-20°	3162.8	6.0
20°-30°	5151.6	9.8
30°-40°	7701.0	14.6
40°-50°	11680.8	22.1
50°-60°	13092.1	24.8
60°-70°	7732.7	14.6
70°-80°	2533.5	4.8
80°-90°	625.9	1.2
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°	52799.0	100.0
0°-180°	52799.0	100.0

Coefficient of Utilization



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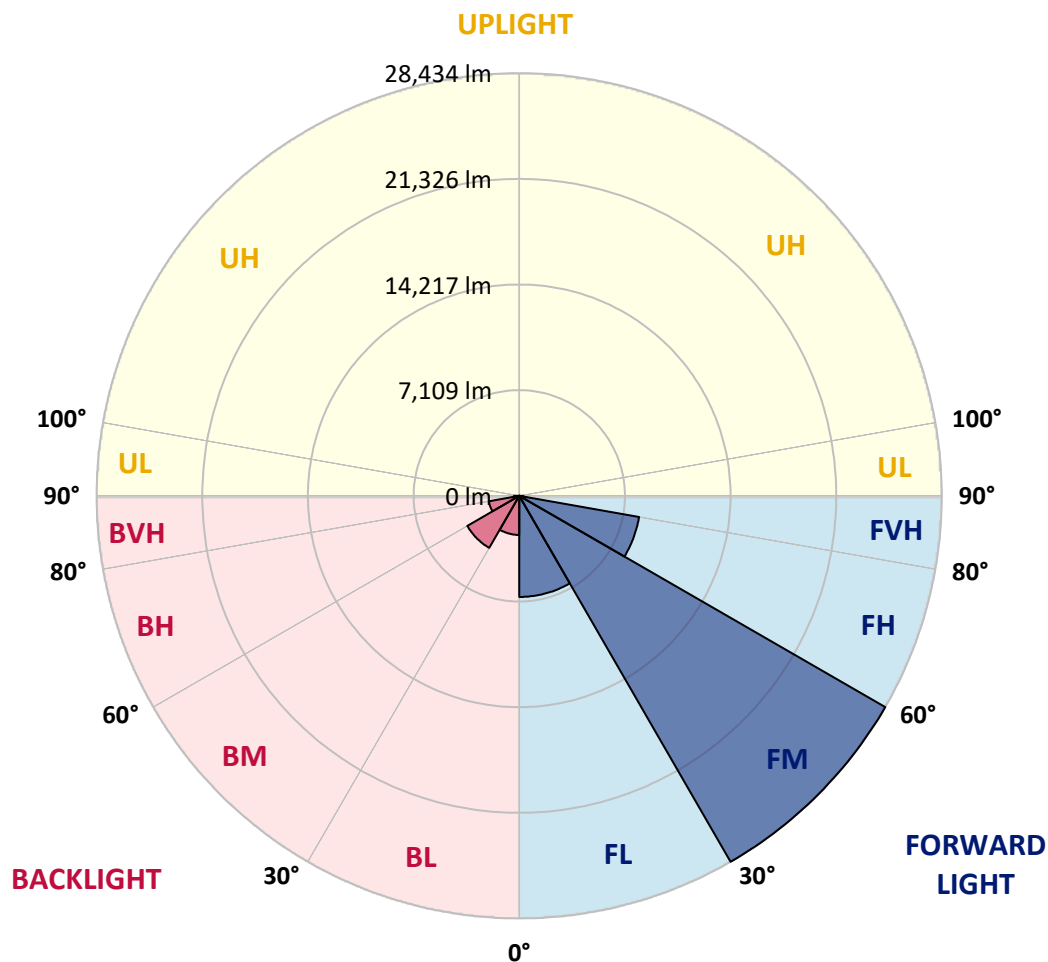
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6801.3	12.9			
FM	(30°-60°)	28434.0	53.9			
FH	(60°-80°)	8186.7	15.5			G4/12000
FVH	(80°-90°)	275.6	0.5			G3/500
BL	(0°-30°)	2631.7	5.0	B4/5000		
BM	(30°-60°)	4039.8	7.7	B3/5000		
BH	(60°-80°)	2079.6	3.9	B3/2500		G3/2500
BVH	(80°-90°)	350.3	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9
2.5°	13447.4	13570.7	13516.3	13327.6	13182.4	12977.4	12748.8	12679.8	12438.5	12168.1	11843.3
5°	15575.8	15514.1	15425.2	15131.2	14820.9	14459.9	13886.5	13795.7	13258.6	12647.2	12001.2
7.5°	16787.9	16782.4	16729.8	16557.4	16274.4	15802.6	15111.3	15004.2	14193.1	13209.7	12208.0
10°	16611.9	16599.2	16686.3	16865.9	16951.2	16853.2	16270.7	16163.7	15167.5	13832.0	12447.6
12.5°	15612.1	15619.3	15759.0	16136.5	16650.0	17266.9	17172.6	17119.9	16178.2	14536.1	12737.9
15°	14833.6	14850.0	14960.7	15289.1	15895.1	17014.7	17720.5	17738.7	17156.2	15312.7	13077.2
17.5°	14492.5	14527.0	14577.8	14808.2	15363.5	16512.1	17851.2	17949.2	18012.7	16118.3	13403.8
20°	14601.4	14634.0	14648.6	14795.5	15251.0	16207.2	17760.5	17936.5	18669.5	16876.8	13730.4
22.5°	15089.5	15109.4	15118.5	15156.6	15510.5	16294.3	17700.6	17885.7	19144.9	17557.2	13977.2
25°	15898.8	15884.2	15826.2	15777.2	16014.9	16639.1	17838.5	18014.5	19531.4	18174.2	14138.7
27.5°	16867.7	16849.6	16737.1	16602.8	16738.9	17176.2	18235.9	18375.6	19878.0	18751.2	14220.3
30°	18030.8	17983.6	17771.3	17611.7	17664.3	17981.8	18890.9	19017.9	20413.3	19406.2	14300.2
32.5°	19375.4	19324.6	19017.9	18753.0	18753.0	19017.9	19565.9	19671.1	20866.9	20146.5	14429.0
35°	21059.2	20995.7	20596.5	20152.0	20026.8	20161.1	20485.9	20560.2	21683.4	21079.2	14663.1
37.5°	23044.3	22959.0	22441.9	21846.7	21572.7	21565.5	21799.6	21952.0	22988.1	22304.0	15060.5
40°	25034.8	24975.0	24523.1	24055.0	23517.9	23345.5	23706.6	23753.8	24693.7	23824.6	15568.5
42.5°	26573.5	26562.7	26479.2	26540.9	25991.1	25642.7	25925.8	25963.9	26776.8	25470.3	16109.2
45°	27386.4	27404.6	27809.2	28705.6	28908.8	28654.8	28794.5	28805.4	29157.4	27130.6	16604.6
47.5°	26735.0	26829.4	27852.8	29857.8	31521.7	32365.5	32133.2	32267.5	31465.5	28556.8	16992.9
50°	24196.5	24312.7	26054.6	29344.3	32741.1	35956.4	35834.8	35804.0	33327.2	29602.0	17203.4
52.5°	21052.0	21142.7	22579.8	26675.2	31846.5	37941.5	39057.4	38897.7	34982.0	30384.0	17243.3
55°	16263.5	16405.0	17782.2	21347.7	28228.4	37183.0	41427.1	41283.8	36489.9	30794.1	17196.1
57°	11562.1	11710.9	13079.0	16292.5	23746.5	34557.4	41663.0	41815.4	37304.6	30863.0	17248.8
57.5°	10317.3	10469.7	11825.2	14946.1	22349.4	33608.4	41459.8	41713.8	37451.5	30852.2	17277.8
60°	5195.0	5253.0	6116.7	8343.1	14127.8	27170.5	38808.8	39463.8	37584.0	30318.7	17403.0
62.5°	3229.8	3188.1	3160.9	3843.1	6873.4	18018.1	33338.0	34599.1	35049.1	29026.8	17100.0
65°	2839.7	2761.7	2462.3	2407.9	3035.7	8751.4	25105.6	26675.2	29632.8	26990.9	16377.8
67.5°	2667.3	2591.1	2253.6	2050.4	2052.2	3469.3	15586.7	17354.0	23084.2	23548.7	14674.0
70°	2489.5	2420.6	2104.8	1865.3	1747.4	1921.6	7171.0	8511.9	15047.8	18509.8	12264.3
72.5°	2260.9	2213.7	1914.3	1667.5	1542.3	1438.9	2745.4	3242.5	8711.5	12431.2	8517.3
75°	2021.4	1977.8	1722.0	1486.1	1333.7	1132.3	1546.0	1665.7	4425.6	6359.9	4193.3
77.5°	1758.3	1732.9	1531.4	1313.7	1192.1	938.1	1094.2	1152.2	1898.0	2727.2	2103.0
80°	1399.0	1448.0	1339.1	1170.4	1057.9	751.2	774.8	812.9	1105.0	1331.9	1193.9
82.5°	910.9	996.2	1048.8	950.8	871.0	591.5	557.1	573.4	720.4	812.9	519.0
85°	379.2	426.4	689.5	622.4	578.8	431.9	373.8	381.0	446.4	462.7	212.3
87.5°	168.7	179.6	303.0	284.9	245.0	148.8	159.7	174.2	237.7	225.0	81.7
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°	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9	11710.9
2.5°	11721.8	11569.3	11308.0	11019.5	10783.7	10594.9	10404.4	10273.8	10121.4	10039.7	9998.0
5°	11730.8	11431.4	10881.6	10317.3	9812.9	9352.0	8912.9	8575.4	8259.7	8089.1	8041.9
7.5°	11768.9	11318.9	10429.8	9500.8	8604.4	7786.1	7154.6	6759.1	6474.2	6347.2	6310.9
10°	11799.8	11186.5	9871.0	8495.5	7276.2	6447.0	5957.0	5735.7	5637.7	5621.4	5605.0
12.5°	11872.4	11050.4	9283.0	7446.8	6243.7	5670.4	5499.8	5485.3	5512.5	5552.4	5552.4
15°	11986.7	10916.1	8611.7	6546.8	5586.9	5385.5	5420.0	5499.8	5574.2	5635.9	5644.9
17.5°	12070.1	10751.0	7889.5	5826.4	5236.7	5291.1	5414.5	5527.0	5603.2	5663.1	5668.5
20°	12130.0	10495.1	7118.3	5276.6	5035.3	5204.0	5358.3	5458.1	5510.7	5570.6	5579.6
22.5°	12099.2	10152.2	6434.3	4882.9	4872.0	5077.0	5224.0	5343.7	5303.8	5245.8	5283.9
25°	11950.4	9680.4	5730.2	4588.9	4699.6	4906.4	5087.9	5008.1	4873.8	4848.4	4862.9
27.5°	11685.5	9078.0	5078.8	4316.7	4500.0	4748.6	4737.7	4657.9	4610.7	4578.0	4598.0
30°	11400.6	8424.8	4509.1	4079.0	4278.6	4483.7	4441.9	4440.1	4392.9	4340.3	4365.7
32.5°	11119.3	7767.9	4057.3	3883.1	4111.7	4138.9	4229.6	4256.8	4164.3	4053.6	4046.4
35°	10874.4	7147.4	3714.3	3705.2	3910.3	3913.9	4046.4	4008.3	3777.8	3663.5	3663.5
37.5°	10691.1	6528.6	3453.0	3545.6	3645.4	3739.7	3806.8	3649.0	3610.9	3547.4	3545.6
40°	10611.3	5984.3	3289.7	3424.0	3458.5	3578.2	3405.8	3467.5	3485.7	3453.0	3453.0
42.5°	10527.8	5510.7	3148.2	3331.4	3326.0	3309.7	3222.6	3302.4	3375.0	3376.8	3371.4
45°	10444.3	5102.4	3023.0	3133.7	3209.9	3033.9	3050.2	3135.5	3237.1	3273.4	3273.4
47.5°	10351.8	4779.4	2908.7	2925.0	3042.9	2925.0	2912.3	2977.6	3097.4	3155.4	3168.1
50°	10148.6	4489.1	2778.0	2741.7	2774.4	2814.3	2825.2	2856.0	2988.5	3081.0	3102.8
52.5°	9867.3	4229.6	2611.1	2573.0	2573.0	2723.6	2774.4	2783.5	2896.0	3006.6	3028.4
55°	9633.2	4064.5	2438.7	2431.4	2424.2	2627.4	2714.5	2729.0	2807.1	2894.1	2905.0
57°	9649.6	4051.8	2306.2	2313.5	2311.7	2529.4	2658.3	2689.1	2729.0	2803.4	2816.1
57.5°	9658.7	4060.9	2277.2	2280.8	2279.0	2502.2	2641.9	2676.4	2707.3	2785.3	2798.0
60°	9794.7	4084.5	2159.3	2119.4	2128.4	2357.1	2549.4	2592.9	2612.9	2716.3	2732.7
62.5°	9593.3	3979.2	2064.9	1968.7	1968.7	2204.6	2420.6	2489.5	2520.4	2660.1	2687.3
65°	9009.1	3683.5	1954.2	1798.2	1816.3	2052.2	2266.3	2378.8	2426.0	2600.2	2629.2
67.5°	8107.2	3340.5	1836.3	1645.8	1663.9	1892.5	2106.6	2228.2	2302.6	2534.9	2558.5
70°	6933.3	2921.4	1676.6	1484.3	1506.0	1718.3	1917.9	2055.8	2166.5	2473.2	2480.4
72.5°	5111.5	2395.2	1453.4	1306.4	1330.0	1515.1	1727.4	1887.1	2035.9	2318.9	2315.3
75°	3039.3	1872.6	1206.7	1126.8	1143.1	1315.5	1555.0	1749.2	1972.4	2259.1	2293.5
77.5°	1843.5	1409.9	983.5	943.5	963.5	1139.5	1431.7	1638.5	1945.2	2130.2	2119.4
80°	1114.1	1007.1	785.7	760.3	780.2	974.4	1324.6	1555.0	1700.2	1820.0	1820.0
82.5°	582.5	615.1	577.0	557.1	584.3	791.1	1204.8	1357.3	1502.4	1290.1	1204.8
85°	237.7	321.2	350.2	348.4	364.7	548.0	1039.7	1161.3	968.9	920.0	941.7
87.5°	79.8	136.1	170.6	147.0	154.2	344.8	720.4	560.7	665.9	464.5	440.9
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)