

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: P318804

Luminaire Tested: **GAN-SA0B-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318804
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-SA0B-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 800mA 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: 56903 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

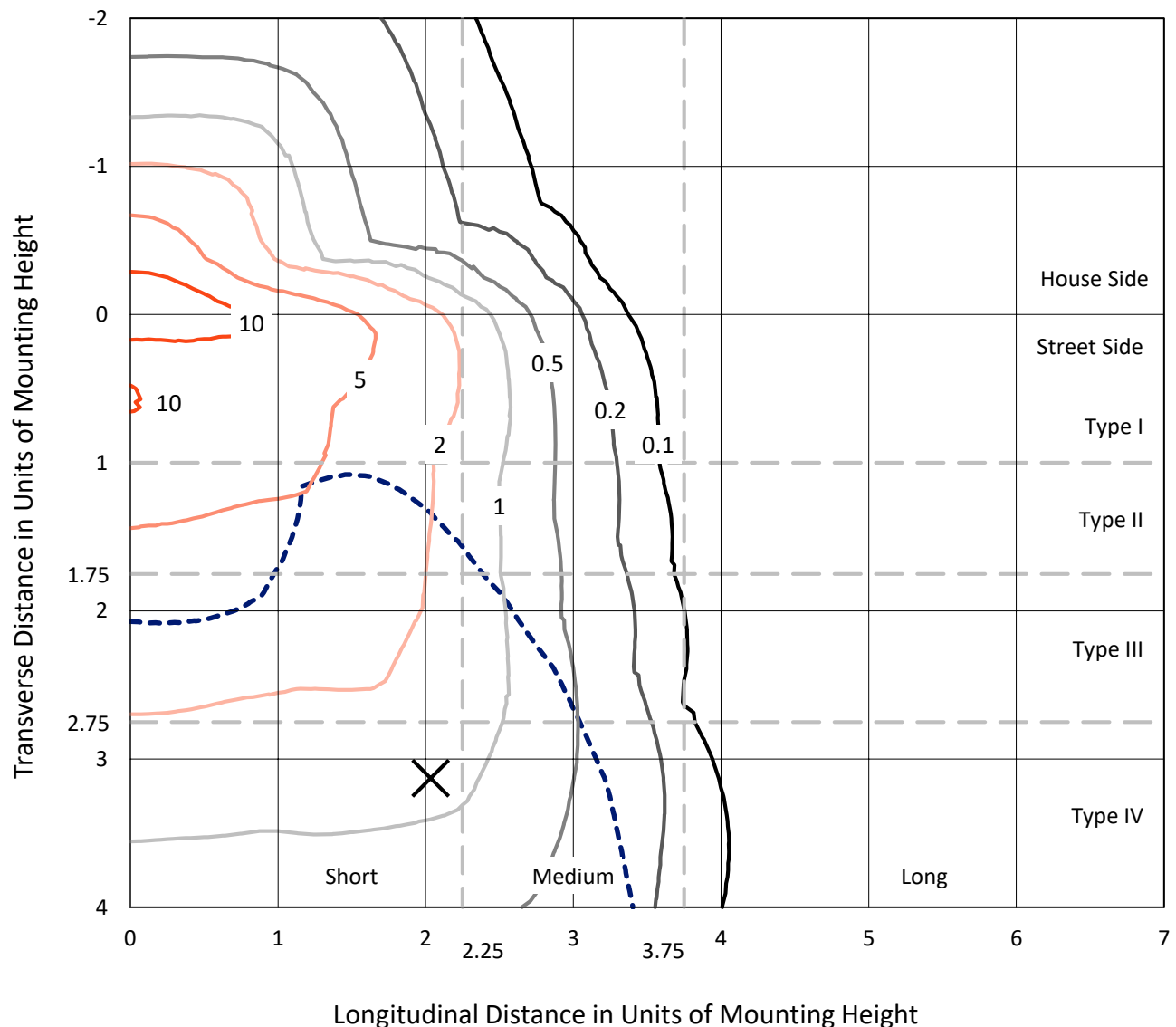
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

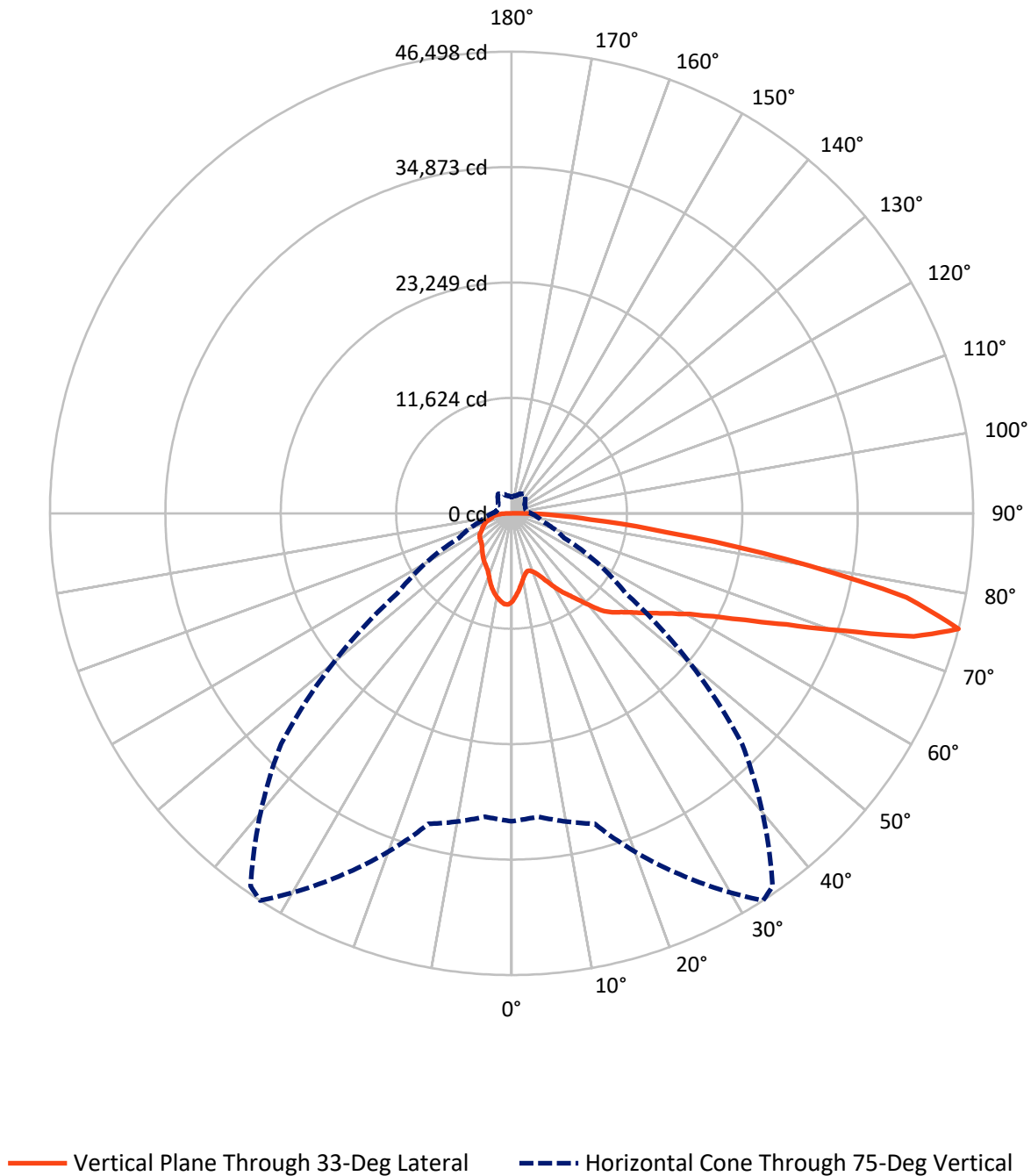
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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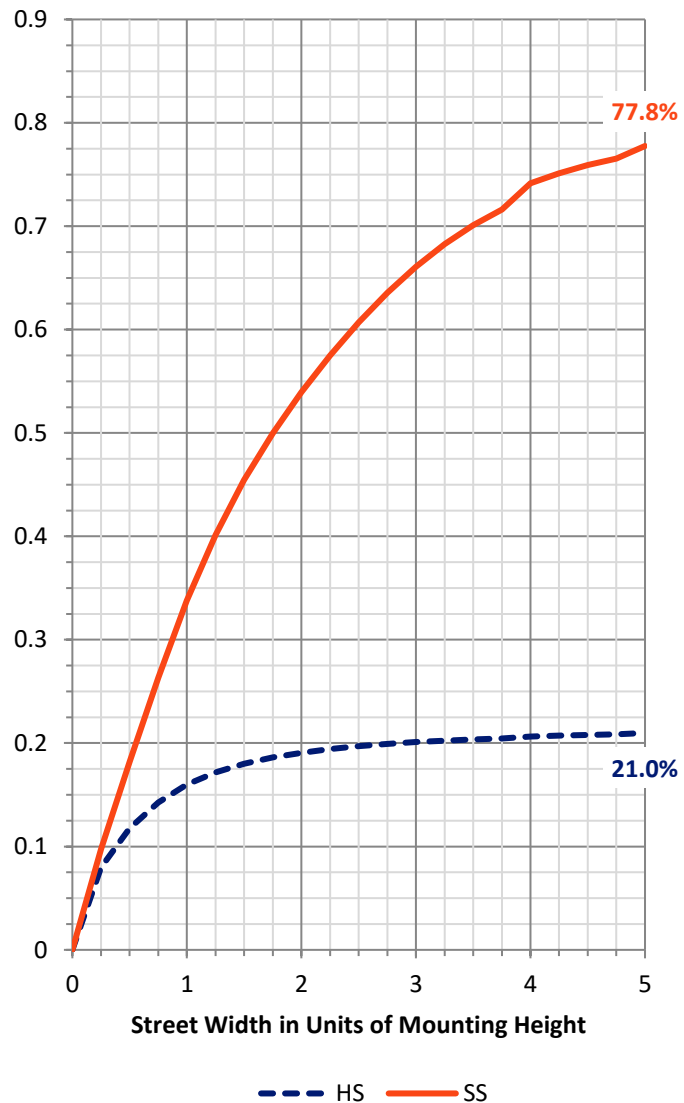
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12218.6	0.0	12218.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	44684.4	0.0	44684.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	56903.0	0.0	56903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	804.4	1.4
10°-20°	2178.6	3.8
20°-30°	3558.0	6.3
30°-40°	5298.6	9.3
40°-50°	7599.7	13.4
50°-60°	10433.2	18.3
60°-70°	13061.8	23.0
70°-80°	11816.4	20.8
80°-90°	2152.4	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°	56903.0	100.0
0°-180°	56903.0	100.0

Coefficient of Utilization



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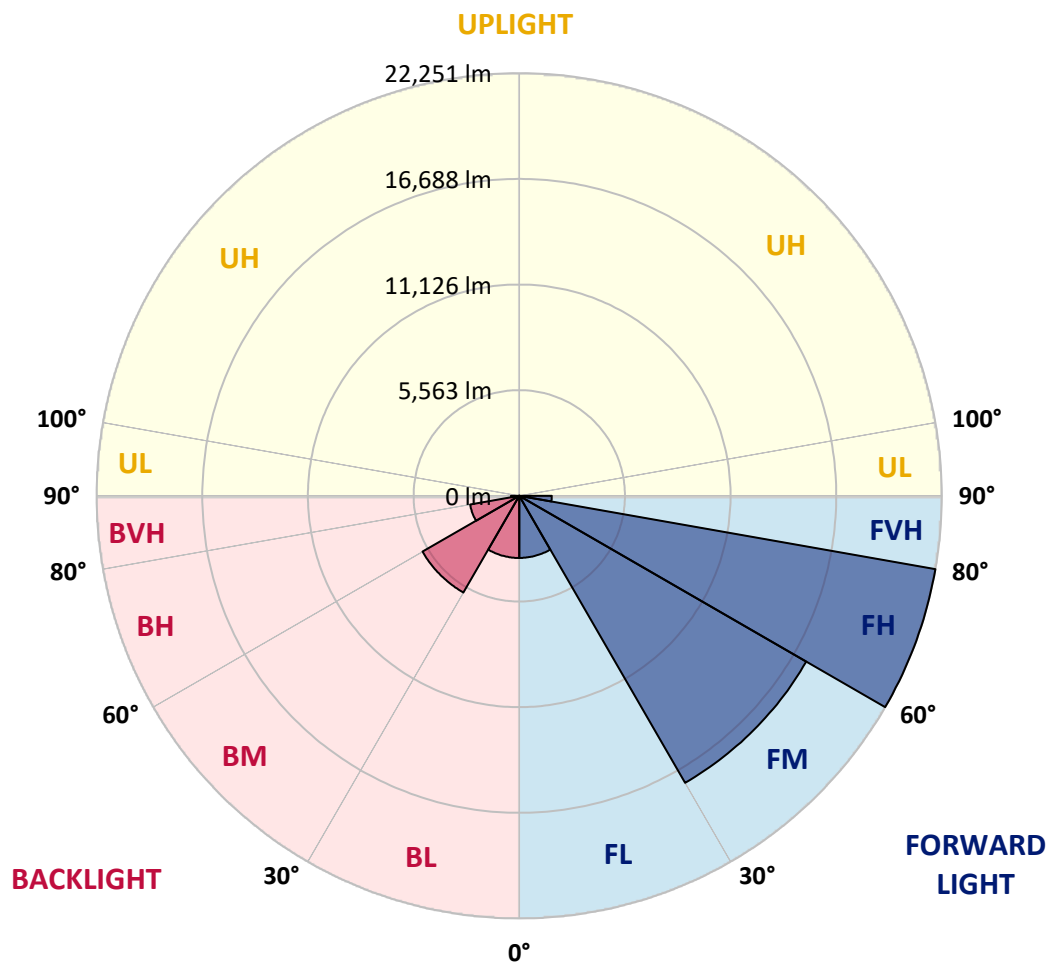
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3268.2	5.7			
FM	(30°-60°)	17451.0	30.7			
FH	(60°-80°)	22251.1	39.1			G5
FVH	(80°-90°)	1714.2	3.0			G5
BL	(0°-30°)	3272.7	5.8	B4/5000		
BM	(30°-60°)	5880.4	10.3	B4/8500		
BH	(60°-80°)	2627.2	4.6	B4/5000		G4/5000
BVH	(80°-90°)	438.2	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°	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3
2.5°	8259.4	8227.9	8286.9	8294.8	8345.9	8365.5	8436.3	8546.3	8636.8	8740.9	8835.3
5°	7510.5	7488.9	7571.4	7630.4	7742.4	7789.6	7956.7	8190.6	8398.9	8634.8	8849.0
7.5°	6798.9	6787.2	6879.5	7013.2	7142.9	7207.8	7496.7	7836.8	8184.7	8566.0	8894.3
10°	6199.4	6195.5	6284.0	6415.7	6606.3	6679.0	7052.5	7500.7	7988.1	8512.9	8970.9
12.5°	5863.3	5877.1	5918.4	6028.4	6205.3	6278.1	6692.8	7219.6	7823.0	8495.2	9083.0
15°	5945.9	5967.5	5896.7	5892.8	6018.6	6075.6	6464.8	7019.1	7705.1	8524.7	9246.1
17.5°	6297.7	6301.7	6114.9	5997.0	6073.6	6103.1	6394.0	6905.1	7636.3	8591.6	9450.5
20°	6793.1	6783.2	6453.0	6256.4	6297.7	6305.6	6494.3	6907.1	7630.4	8707.5	9715.9
22.5°	7449.6	7376.8	6932.6	6665.3	6655.5	6643.7	6751.8	7052.5	7716.9	8896.2	10032.3
25°	8306.5	8237.8	7626.5	7260.9	7182.2	7152.8	7168.5	7363.1	7887.9	9098.7	10386.1
27.5°	9259.9	9140.0	8550.3	8033.3	7870.2	7828.9	7734.6	7801.4	8074.6	9293.3	10806.8
30°	10057.9	9993.0	9478.0	8864.8	8672.1	8613.2	8365.5	8292.8	8343.9	9558.6	11337.5
32.5°	10504.1	10460.8	10148.3	9653.0	9474.1	9391.6	9041.7	8896.2	8776.3	9977.3	12056.9
35°	11044.6	11017.1	10828.4	10468.7	10203.3	10116.8	9845.6	9694.2	9385.7	10553.2	12986.6
37.5°	11732.6	11703.1	11707.0	11416.1	11099.6	11019.1	10840.2	10681.0	10175.8	11310.0	13996.9
40°	12510.9	12453.9	12432.3	12418.5	12218.1	12172.8	12078.5	11862.3	11166.5	12214.1	14993.5
42.5°	13682.4	13480.0	13047.5	13210.7	13409.2	13385.6	13462.3	13151.7	12267.2	13283.4	15966.4
45°	14812.6	14480.4	13733.5	13768.9	14203.3	14335.0	14908.9	14688.8	13460.3	14454.9	16972.8
47.5°	15327.6	15076.0	14441.1	14443.1	14873.6	15146.8	16404.7	16247.5	14714.3	15785.6	18201.3
50°	15903.5	15651.9	15081.9	15296.2	15671.6	15962.5	17849.4	17768.9	15907.5	17242.1	19673.5
52.5°	16532.5	16106.0	15744.3	16127.6	16654.4	16992.5	19296.1	19076.0	17002.3	18708.4	21365.9
55°	16540.4	16424.4	16699.6	16980.7	17768.9	18183.6	20811.6	20229.8	17894.7	20149.2	22743.7
57.5°	17481.9	17293.2	17877.0	18006.7	19036.7	19504.5	22319.2	21234.2	18802.8	21253.8	23486.7
60°	18728.1	18566.9	19044.5	19386.5	20605.2	21230.2	23929.0	22266.1	19516.3	22087.2	23451.4
62.5°	20880.4	20697.6	20691.7	21171.3	22812.5	23539.8	25735.4	23278.4	19799.3	22252.4	22450.9
65°	24031.2	23740.3	23191.9	23419.9	25861.2	26586.5	27754.0	24011.5	19425.8	21367.8	19874.0
67.5°	27097.5	27087.7	26413.5	26881.3	29886.7	30468.5	30053.7	24084.3	18260.3	18287.8	15302.1
70°	30154.0	30193.3	30079.3	31706.8	35325.4	35930.8	32502.9	23107.4	15640.1	13206.7	9167.5
72.5°	32575.6	32565.8	33139.7	37336.2	42383.8	42248.2	34566.7	20147.2	11229.4	7129.2	4381.3
75°	31007.1	30665.0	32375.1	40123.4	46497.8	45835.4	32811.5	14053.9	5828.0	3245.2	2358.7
77.5°	20223.9	20548.2	23058.2	33145.6	40671.8	39865.9	24072.5	6557.2	2745.9	2128.7	1710.1
80°	7323.8	7665.8	10796.9	18775.2	28021.3	27889.6	11854.4	2694.8	1857.5	1607.8	1246.2
82.5°	2519.9	2645.7	4259.4	8338.0	15821.0	16410.6	4459.9	1531.2	1350.4	1140.0	853.1
85°	988.7	1132.2	1947.9	4011.8	7980.3	8039.2	1806.4	916.0	939.5	746.9	467.8
87.5°	375.4	456.0	931.7	1863.4	3644.2	3347.4	646.7	436.4	534.6	444.2	222.1
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°	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3	8894.3
2.5°	8908.0	8949.3	9035.8	9094.7	9157.6	9175.3	9183.2	9198.9	9214.6	9208.8	9210.7
5°	8963.1	9043.6	9183.2	9242.2	9269.7	9238.2	9177.3	9128.2	9092.8	9073.1	9067.2
7.5°	9053.5	9167.5	9316.9	9307.0	9244.1	9104.6	8947.3	8829.4	8731.1	8695.7	8676.1
10°	9173.4	9307.0	9411.2	9299.2	9116.4	8874.6	8638.7	8455.9	8308.5	8251.5	8241.7
12.5°	9326.7	9462.3	9482.0	9244.1	8941.4	8611.2	8290.8	8049.1	7828.9	7758.2	7742.4
15°	9525.2	9653.0	9531.1	9147.8	8725.2	8281.0	7866.3	7538.0	7306.1	7219.6	7188.1
17.5°	9733.6	9855.4	9540.9	8988.6	8442.2	7889.8	7369.0	7032.9	6767.5	6667.3	6655.5
20°	9983.2	10038.2	9499.7	8760.6	8053.0	7382.7	6834.3	6517.9	6376.3	6305.6	6297.7
22.5°	10291.8	10232.8	9405.3	8452.0	7559.6	6797.0	6350.8	6203.4	6168.0	6152.3	6158.2
25°	10618.1	10437.2	9265.8	8049.1	6936.5	6211.2	5997.0	6038.3	6085.4	6079.5	6079.5
27.5°	10977.8	10645.6	9051.5	7514.4	6246.6	5731.6	5757.2	5908.5	5979.3	5977.3	5975.4
30°	11439.7	10881.5	8778.3	6871.7	5601.9	5393.6	5548.8	5733.6	5829.9	5826.0	5828.0
32.5°	12007.7	11140.9	8406.8	6154.2	5136.1	5143.9	5322.8	5505.6	5617.6	5607.8	5609.8
35°	12672.1	11431.8	7903.6	5446.6	4827.5	4945.4	5086.9	5214.7	5320.8	5307.1	5293.3
37.5°	13395.4	11716.8	7235.3	4813.7	4575.9	4760.6	4878.6	4900.2	4949.3	4914.0	4888.4
40°	14083.4	11935.0	6374.4	4294.8	4322.3	4603.4	4680.1	4593.6	4505.1	4493.3	4457.9
42.5°	14682.9	12007.7	5503.6	3880.1	4055.0	4438.3	4485.5	4304.6	4145.4	4070.7	4039.3
45°	15315.8	12033.3	4691.8	3532.2	3797.5	4290.9	4342.0	4100.2	3876.1	3714.9	3661.9
47.5°	16143.3	12218.1	4060.9	3274.7	3600.9	4192.6	4265.3	3937.1	3646.2	3416.2	3367.0
50°	17226.4	12583.7	3547.9	3078.1	3473.2	4127.7	4210.3	3777.8	3457.5	3180.3	3131.2
52.5°	18429.3	12919.8	3133.1	2918.9	3349.4	4013.7	4139.5	3663.8	3280.6	2962.1	2909.1
55°	19270.6	12662.3	2799.0	2753.8	3188.2	3850.6	4041.2	3567.5	3027.0	2749.8	2702.7
57.5°	19431.7	11781.7	2545.4	2582.8	2993.6	3646.2	3889.9	3353.3	2889.4	2657.5	2608.3
60°	18991.5	10555.2	2356.7	2425.5	2785.2	3388.7	3606.8	3201.9	2757.7	2559.2	2517.9
62.5°	17884.8	9299.2	2217.2	2284.0	2590.6	3127.2	3429.9	3042.7	2624.1	2447.1	2405.9
65°	15650.0	7807.3	2083.5	2158.2	2409.8	2901.2	3270.7	2895.3	2492.4	2356.7	2317.4
67.5°	11813.1	5847.6	1957.7	2024.5	2248.6	2704.6	3097.8	2749.8	2364.6	2278.1	2230.9
70°	6956.2	3661.9	1814.2	1885.0	2079.6	2500.2	2913.0	2590.6	2205.4	2166.1	2105.1
72.5°	3237.3	2203.4	1651.1	1719.9	1867.3	2227.0	2675.2	2382.3	2016.7	1930.2	1847.6
75°	1932.2	1611.8	1458.5	1519.4	1623.6	1936.1	2376.4	2170.0	1837.8	1723.8	1637.3
77.5°	1444.7	1232.4	1246.2	1311.0	1395.6	1694.3	2105.1	2002.9	1700.2	1611.8	1552.8
80°	1039.8	935.6	1016.2	1087.0	1175.4	1541.0	2016.7	1851.6	1537.1	1419.2	1364.1
82.5°	693.9	672.2	764.6	837.3	923.8	1348.4	1894.8	1621.6	1313.0	1163.6	1041.8
85°	383.3	404.9	515.0	546.4	621.1	949.4	1552.8	1303.2	988.7	796.1	760.7
87.5°	159.2	186.7	277.1	267.3	330.2	566.1	1022.1	786.2	629.0	469.8	365.6
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)