

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: P318864

Luminaire Tested: **GAN-SA0D-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318864
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-SA0D-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1200mA 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: 56796 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

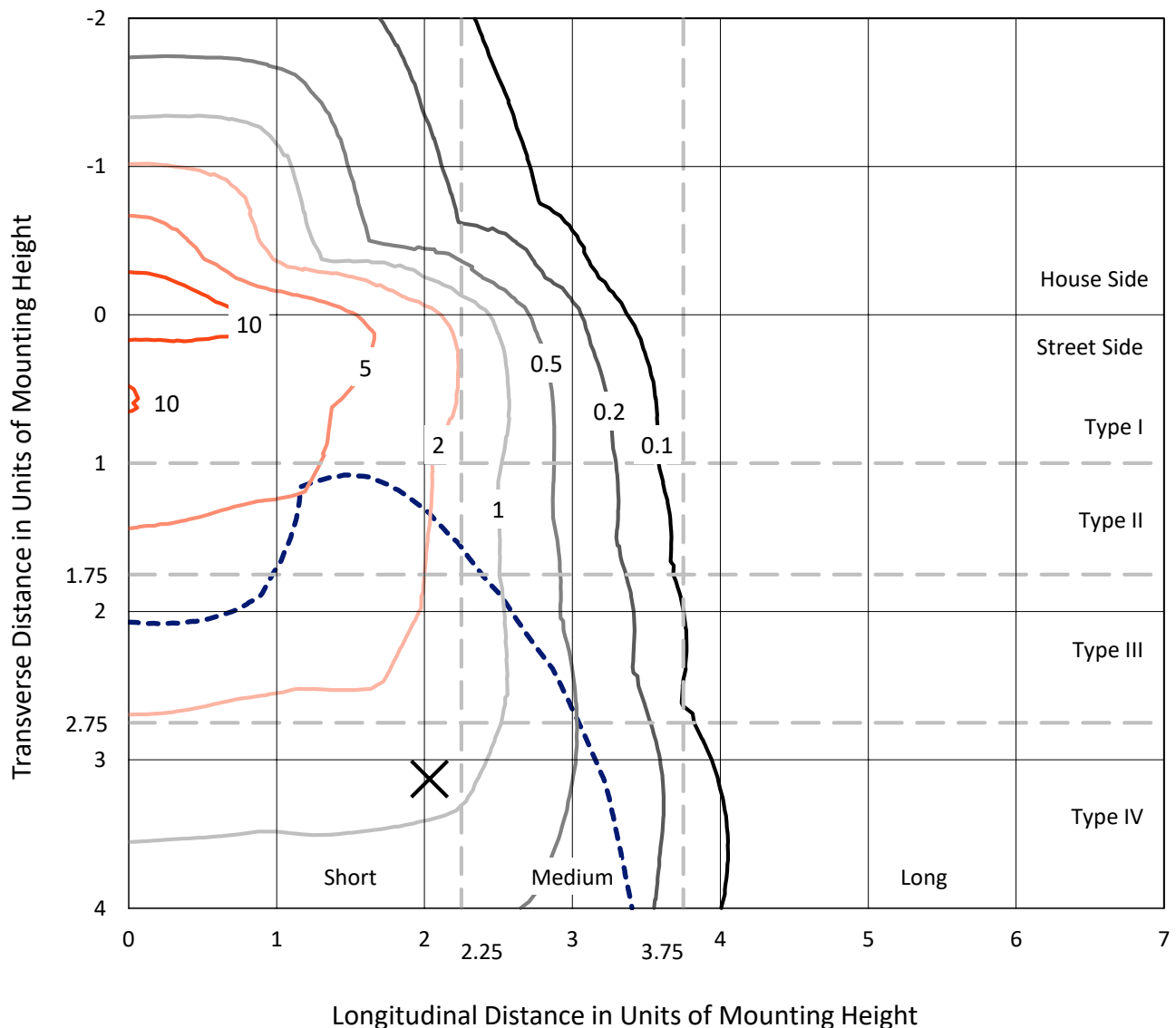
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

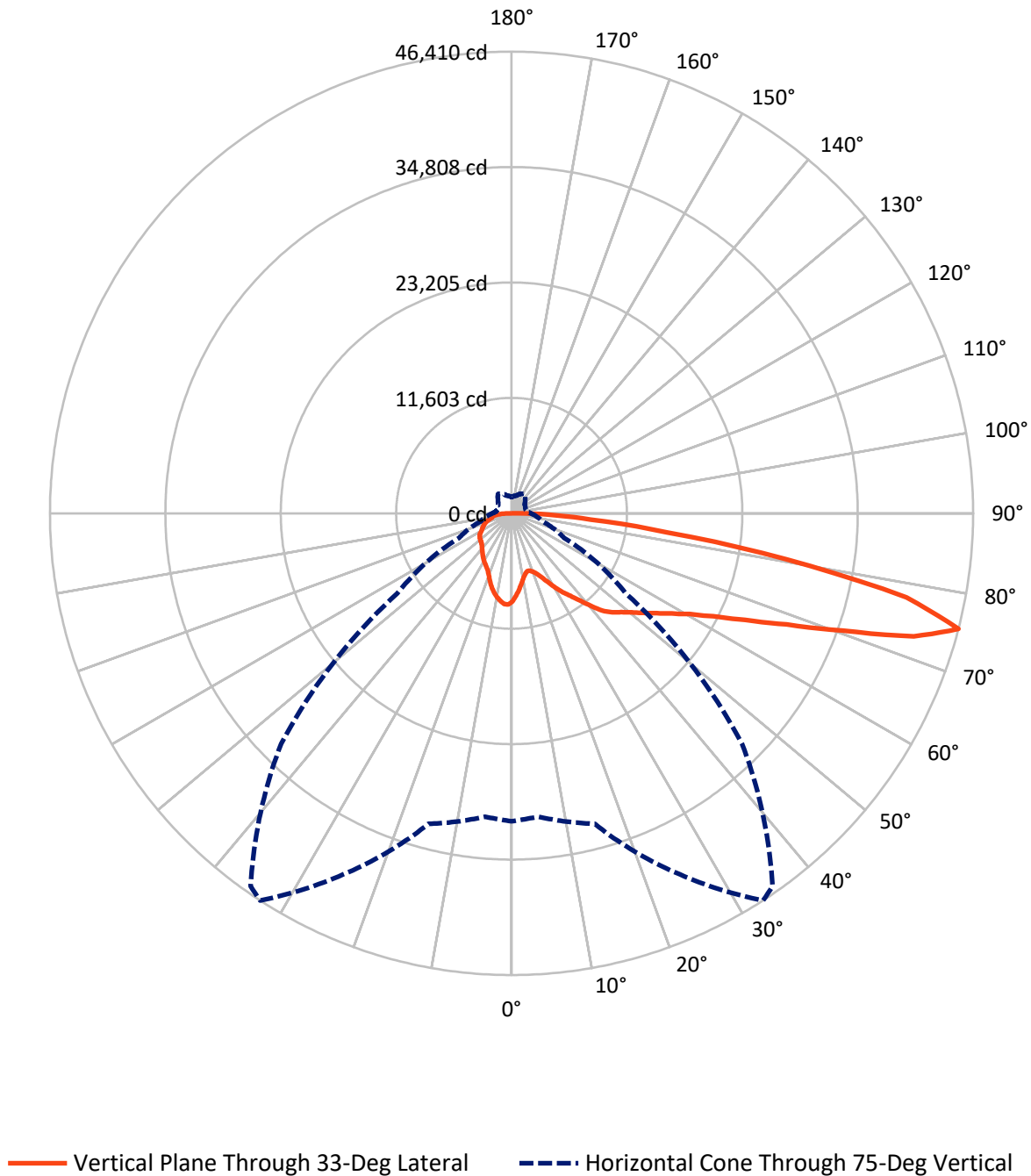
✕ Max cd
 - - - 1/2 Max cd



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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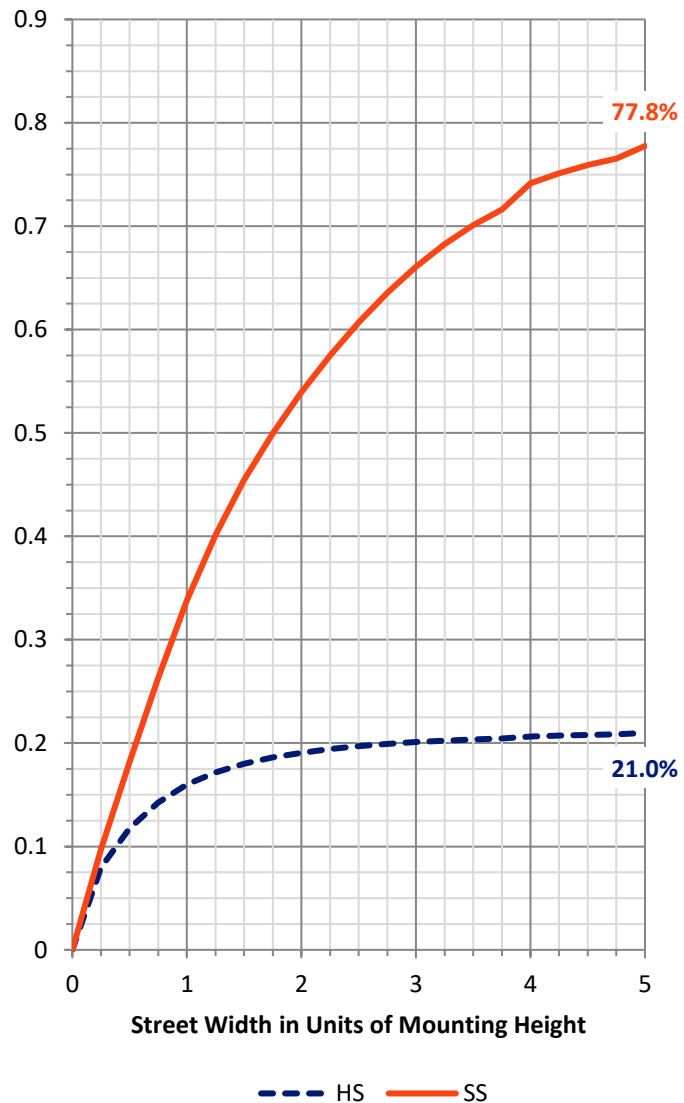
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12195.6	0.0	12195.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	44600.4	0.0	44600.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	56796.0	0.0	56796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.9	1.4
10°-20°	2174.5	3.8
20°-30°	3551.3	6.3
30°-40°	5288.7	9.3
40°-50°	7585.4	13.4
50°-60°	10413.5	18.3
60°-70°	13037.3	23.0
70°-80°	11794.2	20.8
80°-90°	2148.4	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°	56796.0	100.0
0°-180°	56796.0	100.0

Coefficient of Utilization



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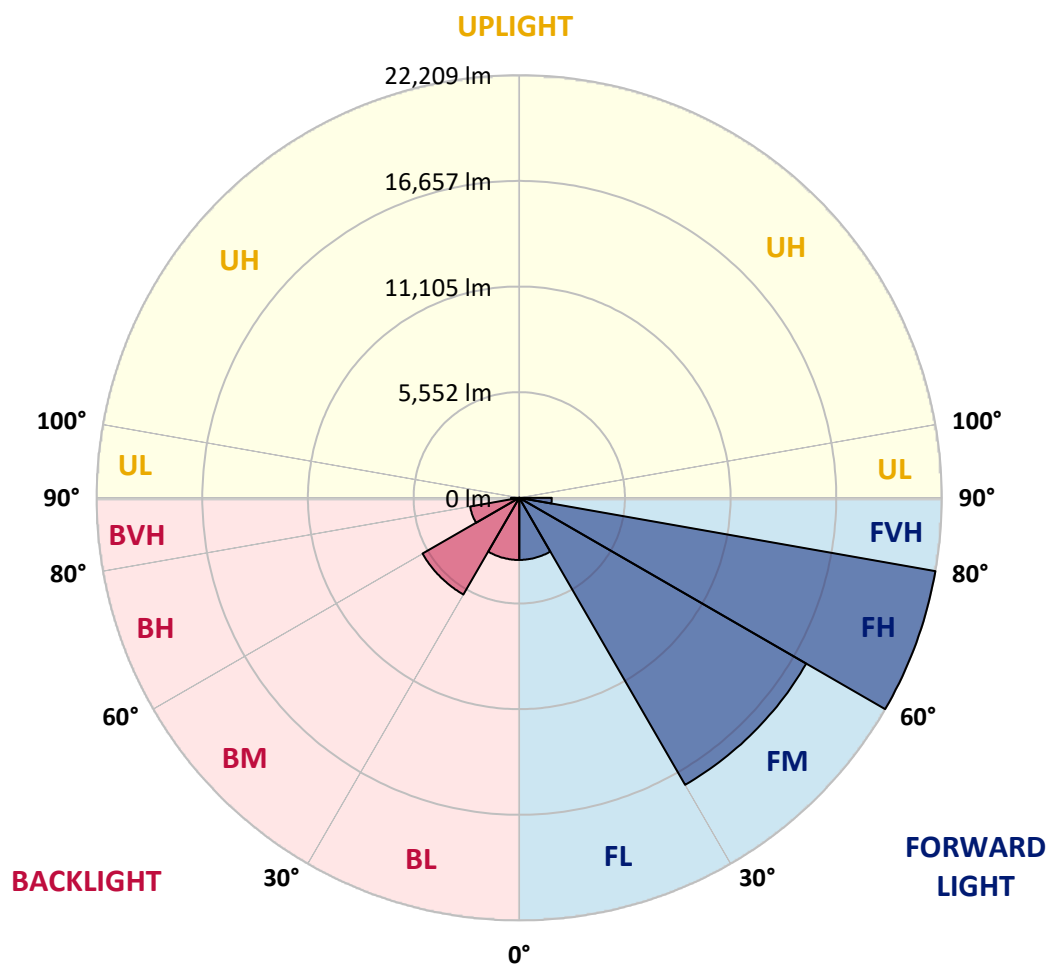
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3262.1	5.7			
FM	(30°-60°)	17418.2	30.7			
FH	(60°-80°)	22209.2	39.1			G5
FVH	(80°-90°)	1711.0	3.0			G5
BL	(0°-30°)	3266.5	5.8	B4/5000		
BM	(30°-60°)	5869.4	10.3	B4/8500		
BH	(60°-80°)	2622.3	4.6	B4/5000		G4/5000
BVH	(80°-90°)	437.4	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°	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5
2.5°	8243.8	8212.5	8271.3	8279.2	8330.2	8349.8	8420.4	8530.3	8620.5	8724.5	8818.7
5°	7496.4	7474.8	7557.2	7616.0	7727.9	7775.0	7941.7	8175.2	8383.1	8618.6	8832.4
7.5°	6786.2	6774.4	6866.6	7000.0	7129.5	7194.2	7482.6	7822.0	8169.3	8549.9	8877.5
10°	6187.8	6183.9	6272.1	6403.6	6593.9	6666.5	7039.2	7486.6	7973.1	8496.9	8954.0
12.5°	5852.3	5866.0	5907.2	6017.1	6193.7	6266.3	6680.2	7206.0	7808.3	8479.3	9065.9
15°	5934.7	5956.3	5885.7	5881.7	6007.3	6064.2	6452.6	7005.9	7690.6	8508.7	9228.7
17.5°	6285.9	6289.8	6103.4	5985.7	6062.2	6091.7	6382.0	6892.1	7621.9	8575.4	9432.7
20°	6780.3	6770.5	6440.9	6244.7	6285.9	6293.7	6482.1	6894.1	7616.0	8691.2	9697.6
22.5°	7435.5	7363.0	6919.6	6652.8	6642.9	6631.2	6739.1	7039.2	7702.4	8879.5	10013.5
25°	8290.9	8222.3	7612.1	7247.2	7168.7	7139.3	7155.0	7349.2	7873.0	9081.6	10366.6
27.5°	9242.4	9122.8	8534.2	8018.2	7855.4	7814.2	7720.0	7786.7	8059.4	9275.8	10786.4
30°	10039.0	9974.2	9460.2	8848.1	8655.8	8597.0	8349.8	8277.2	8328.2	9540.7	11316.2
32.5°	10484.3	10441.2	10129.2	9634.8	9456.3	9373.9	9024.7	8879.5	8759.8	9958.5	12034.2
35°	11023.8	10996.4	10808.0	10449.0	10184.1	10097.8	9827.1	9676.0	9368.0	10533.4	12962.2
37.5°	11710.5	11681.1	11685.0	11394.6	11078.8	10998.3	10819.8	10660.9	10156.7	11288.7	13970.6
40°	12487.4	12430.5	12408.9	12395.2	12195.1	12150.0	12055.8	11840.0	11145.5	12191.2	14965.3
42.5°	13656.7	13454.6	13023.0	13185.8	13384.0	13360.4	13437.0	13127.0	12244.1	13258.4	15936.4
45°	14784.8	14453.2	13707.7	13743.0	14176.6	14308.0	14880.9	14661.2	13435.0	14427.7	16940.9
47.5°	15298.8	15047.7	14414.0	14415.9	14845.6	15118.3	16373.9	16216.9	14686.7	15755.9	18167.1
50°	15873.6	15622.5	15053.5	15267.4	15642.1	15932.5	17815.9	17735.4	15877.5	17209.7	19636.5
52.5°	16501.4	16075.7	15714.7	16097.3	16623.1	16960.5	19259.8	19040.1	16970.3	18673.2	21325.7
55°	16509.3	16393.5	16668.2	16948.7	17735.4	18149.4	20772.4	20191.7	17861.0	20111.3	22701.0
57.5°	17449.0	17260.7	17843.4	17972.8	19000.9	19467.8	22277.2	21194.3	18767.4	21213.9	23442.6
60°	18692.8	18532.0	19008.7	19350.1	20566.4	21190.3	23884.0	22224.2	19479.6	22045.7	23407.3
62.5°	20841.1	20658.7	20652.8	21131.5	22769.6	23495.5	25687.0	23234.6	19762.1	22210.5	22408.7
65°	23986.0	23695.7	23148.3	23375.9	25812.5	26536.5	27701.8	23966.4	19389.3	21327.7	19836.6
67.5°	27046.6	27036.7	26363.8	26830.8	29830.5	30411.2	29997.2	24039.0	18225.9	18253.4	15273.3
70°	30097.3	30136.5	30022.7	31647.2	35259.0	35863.3	32441.7	23063.9	15610.7	13181.9	9150.2
72.5°	32514.3	32504.5	33077.4	37266.0	42304.1	42168.8	34501.7	20109.3	11208.3	7115.8	4373.0
75°	30948.7	30607.4	32314.2	40048.0	46410.4	45749.2	32749.8	14027.5	5817.0	3239.1	2354.3
77.5°	20185.8	20509.6	23014.9	33083.3	40595.3	39791.0	24027.2	6544.9	2740.8	2124.7	1706.8
80°	7310.0	7651.4	10776.6	18739.9	27968.6	27837.2	11832.1	2689.7	1854.0	1604.8	1243.8
82.5°	2515.1	2640.7	4251.4	8322.3	15791.2	16379.8	4451.5	1528.3	1347.8	1137.9	851.5
85°	986.8	1130.0	1944.2	4004.2	7965.3	8024.1	1803.0	914.2	937.8	745.5	466.9
87.5°	374.7	455.2	929.9	1859.9	3637.3	3341.1	645.5	435.5	533.6	443.4	221.7
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°	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5	8877.5
2.5°	8891.3	8932.5	9018.8	9077.6	9140.4	9158.1	9165.9	9181.6	9197.3	9191.4	9193.4
5°	8946.2	9026.6	9165.9	9224.8	9252.3	9220.9	9160.0	9111.0	9075.7	9056.1	9050.2
7.5°	9036.4	9150.2	9299.3	9289.5	9226.7	9087.5	8930.5	8812.8	8714.7	8679.4	8659.8
10°	9156.1	9289.5	9393.5	9281.7	9099.2	8857.9	8622.5	8440.0	8292.9	8236.0	8226.2
12.5°	9309.1	9444.5	9464.1	9226.7	8924.6	8595.0	8275.2	8033.9	7814.2	7743.6	7727.9
15°	9507.3	9634.8	9513.2	9130.6	8708.8	8265.4	7851.5	7523.8	7292.3	7206.0	7174.6
17.5°	9715.3	9836.9	9523.0	8971.7	8426.3	7875.0	7355.1	7019.6	6754.8	6654.7	6642.9
20°	9964.4	10019.4	9481.8	8744.1	8037.8	7368.8	6821.5	6505.6	6364.4	6293.7	6285.9
22.5°	10272.4	10213.6	9387.6	8436.1	7545.4	6784.2	6338.9	6191.7	6156.4	6140.7	6146.6
25°	10598.1	10417.6	9248.3	8033.9	6923.5	6199.6	5985.7	6026.9	6074.0	6068.1	6068.1
27.5°	10957.1	10625.6	9034.5	7500.3	6234.9	5720.9	5746.4	5897.4	5968.1	5966.1	5964.1
30°	11418.2	10861.0	8761.8	6858.8	5591.4	5383.4	5538.4	5722.8	5819.0	5815.0	5817.0
32.5°	11985.2	11120.0	8391.0	6142.7	5126.4	5134.3	5312.8	5495.2	5607.1	5597.3	5599.2
35°	12648.3	11410.3	7888.7	5436.4	4818.4	4936.1	5077.4	5204.9	5310.8	5297.1	5283.4
37.5°	13370.3	11694.8	7221.7	4804.7	4567.3	4751.7	4869.4	4891.0	4940.0	4904.7	4879.2
40°	14056.9	11912.6	6362.4	4286.7	4314.2	4594.7	4671.3	4584.9	4496.6	4484.9	4449.6
42.5°	14655.3	11985.2	5493.3	3872.8	4047.4	4429.9	4477.0	4296.5	4137.6	4063.1	4031.7
45°	15287.0	12010.7	4683.0	3525.5	3790.4	4282.8	4333.8	4092.5	3868.8	3708.0	3655.0
47.5°	16113.0	12195.1	4053.3	3268.5	3594.2	4184.7	4257.3	3929.7	3639.3	3409.8	3360.7
50°	17194.0	12560.0	3541.2	3072.3	3466.7	4120.0	4202.4	3770.7	3451.0	3174.3	3125.3
52.5°	18394.6	12895.5	3127.2	2913.4	3343.1	4006.2	4131.7	3657.0	3274.4	2956.6	2903.6
55°	19234.3	12638.5	2793.7	2748.6	3182.2	3843.3	4033.6	3560.8	3021.3	2744.7	2697.6
57.5°	19395.2	11759.5	2540.6	2577.9	2988.0	3639.3	3882.6	3347.0	2884.0	2652.5	2603.4
60°	18955.7	10535.3	2352.3	2421.0	2780.0	3382.3	3600.1	3195.9	2752.5	2554.4	2513.2
62.5°	17851.2	9281.7	2213.0	2279.7	2585.8	3121.4	3423.5	3037.0	2619.1	2442.5	2401.3
65°	15620.5	7792.6	2079.6	2154.2	2405.3	2895.7	3264.6	2889.9	2487.7	2352.3	2313.1
67.5°	11790.9	5836.6	1954.0	2020.7	2244.4	2699.6	3091.9	2744.7	2360.1	2273.8	2226.7
70°	6943.1	3655.0	1810.8	1881.4	2075.7	2495.5	2907.5	2585.8	2201.2	2162.0	2101.2
72.5°	3231.2	2199.3	1648.0	1716.7	1863.8	2222.8	2670.1	2377.8	2012.9	1926.6	1844.2
75°	1928.5	1608.7	1455.7	1516.5	1620.5	1932.5	2371.9	2165.9	1834.4	1720.6	1634.3
77.5°	1442.0	1230.1	1243.8	1308.6	1392.9	1691.1	2101.2	1999.2	1697.0	1608.7	1549.9
80°	1037.8	933.9	1014.3	1084.9	1173.2	1538.1	2012.9	1848.1	1534.2	1416.5	1361.5
82.5°	692.5	671.0	763.2	835.8	922.1	1345.9	1891.3	1618.6	1310.5	1161.4	1039.8
85°	382.6	404.1	514.0	545.4	620.0	947.6	1549.9	1300.7	986.8	794.6	759.2
87.5°	158.9	186.4	276.6	266.8	329.6	565.0	1020.2	784.8	627.8	468.9	364.9
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)