

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: P318654

Luminaire Tested: **GAN-SA0C-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318654
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-SA0C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 58899 lumens
Efficiency: N/A
Efficacy: 105.6 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): 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

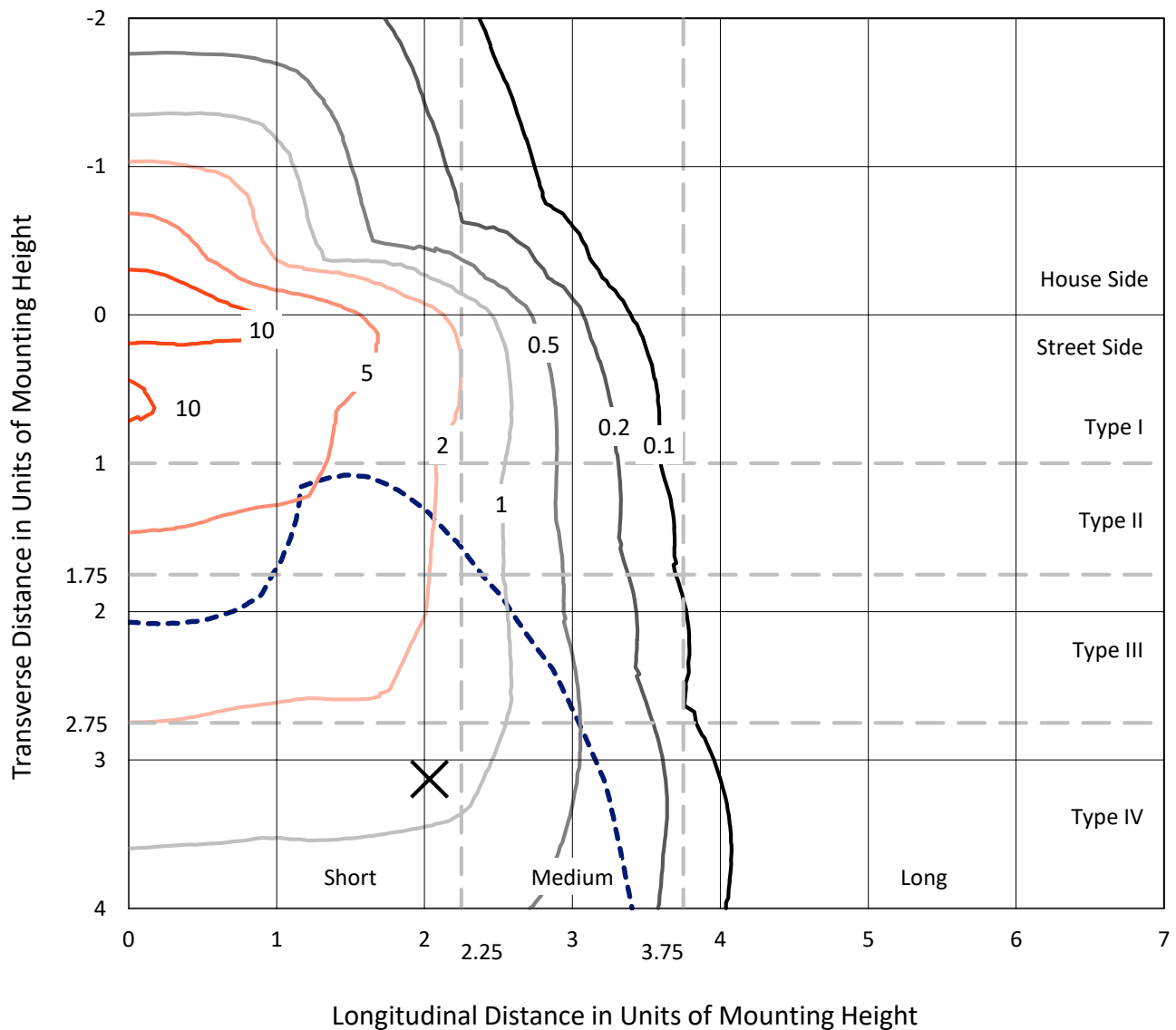


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Iso-Footcandle Lines of Horizontal Illumination

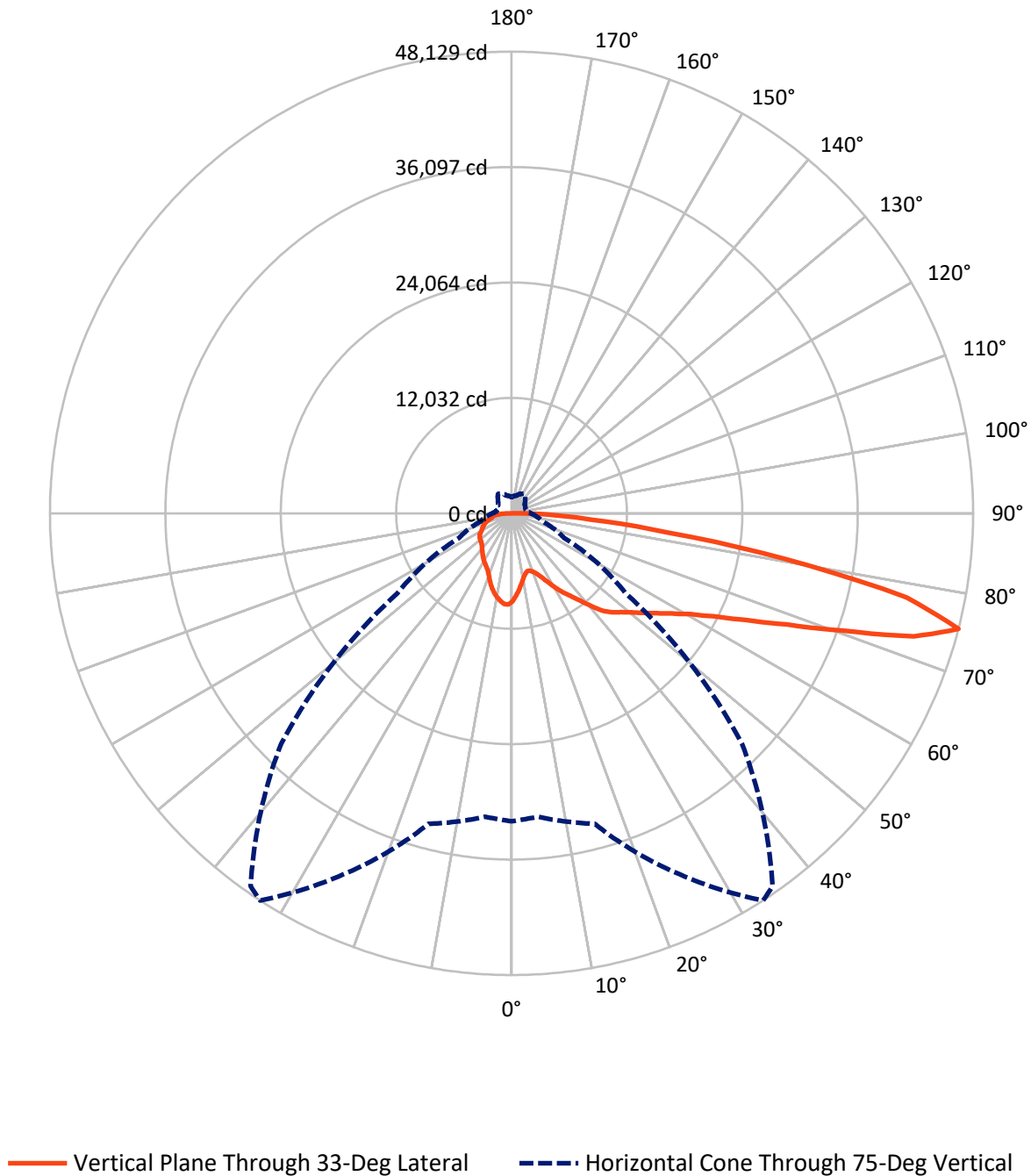
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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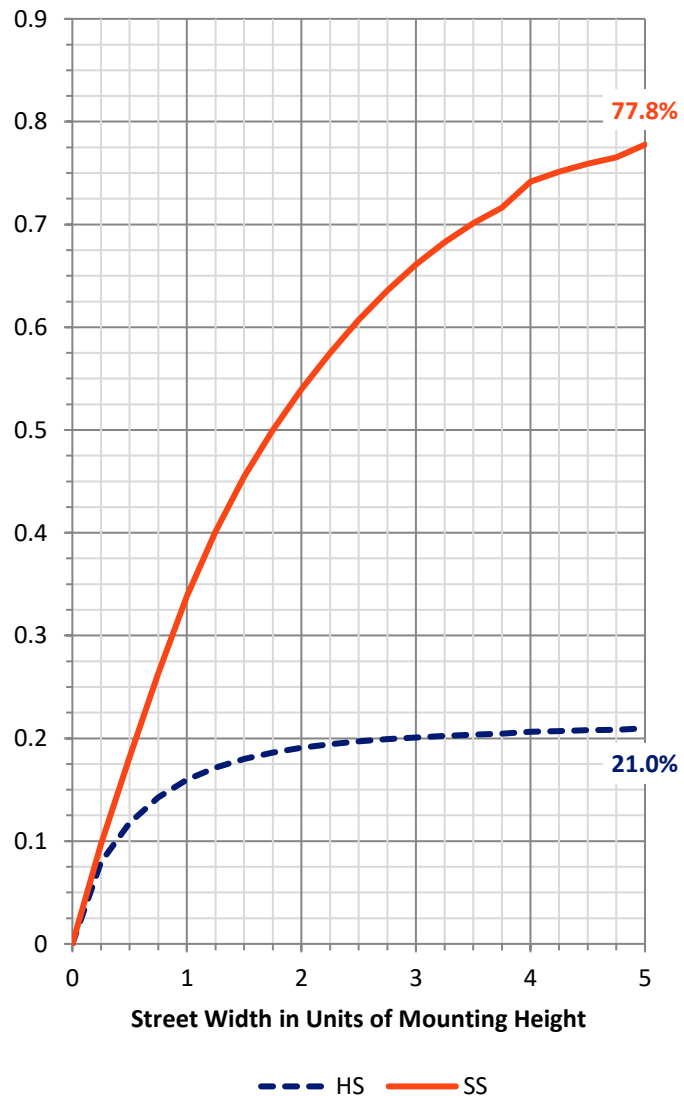
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12647.2	0.0	12647.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	46251.8	0.0	46251.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	58899.0	0.0	58899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	832.6	1.4
10°-20°	2255.0	3.8
20°-30°	3682.8	6.3
30°-40°	5484.5	9.3
40°-50°	7866.2	13.4
50°-60°	10799.1	18.3
60°-70°	13520.0	23.0
70°-80°	12230.9	20.8
80°-90°	2227.9	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°	58899.0	100.0
0°-180°	58899.0	100.0

Coefficient of Utilization



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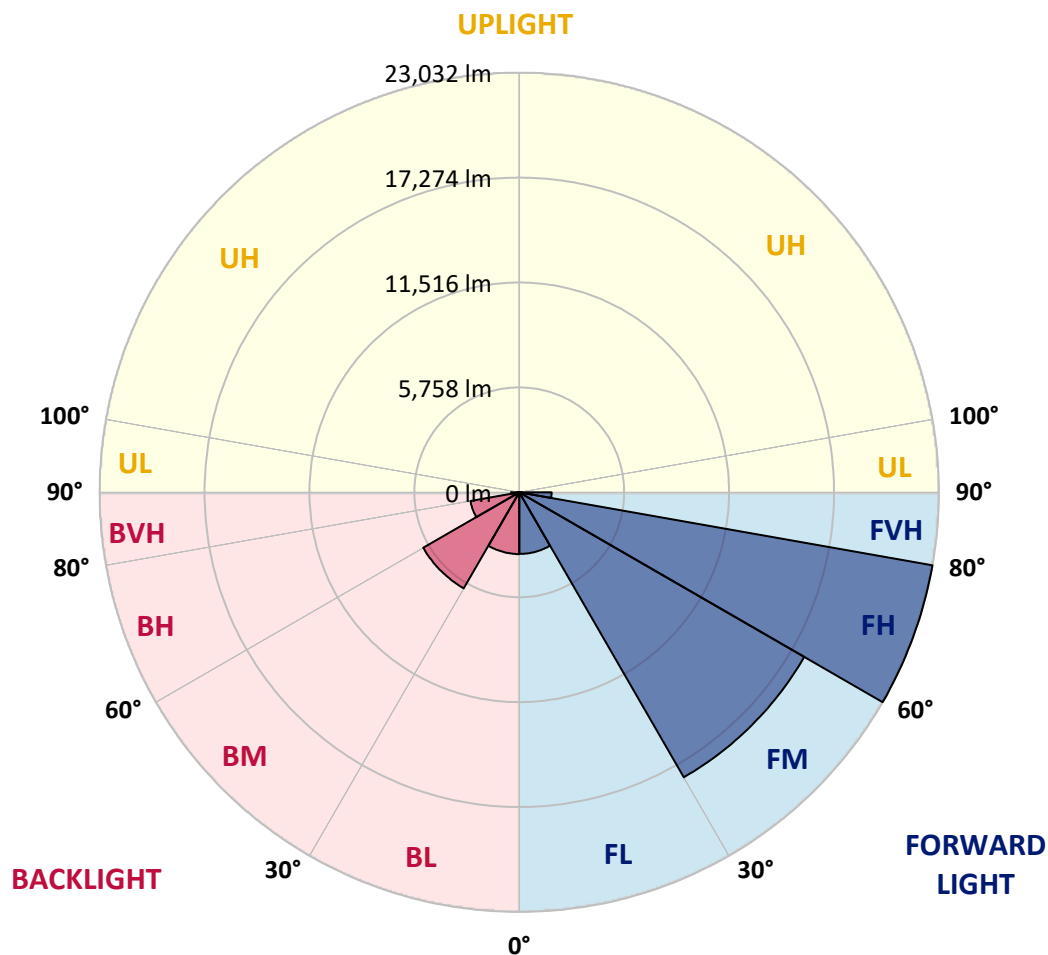
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3382.8	5.7			
FM	(30°-60°)	18063.1	30.7			
FH	(60°-80°)	23031.6	39.1			G5
FVH	(80°-90°)	1774.3	3.0			G5
BL	(0°-30°)	3387.5	5.8	B4/5000		
BM	(30°-60°)	6086.7	10.3	B4/8500		
BH	(60°-80°)	2719.4	4.6	B4/5000		G4/5000
BVH	(80°-90°)	453.6	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°	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2
2.5°	8549.1	8516.5	8577.6	8585.7	8638.6	8659.0	8732.2	8846.1	8939.7	9047.6	9145.2
5°	7773.9	7751.6	7837.0	7898.0	8014.0	8062.8	8235.8	8477.9	8693.5	8937.7	9159.4
7.5°	7037.4	7025.2	7120.9	7259.2	7393.5	7460.6	7759.7	8111.7	8471.8	8866.5	9206.2
10°	6416.9	6412.8	6504.4	6640.7	6838.1	6913.3	7299.9	7763.8	8268.3	8811.5	9285.6
12.5°	6069.0	6083.2	6126.0	6239.9	6423.0	6498.3	6927.6	7472.8	8097.4	8793.2	9401.6
15°	6154.5	6176.8	6103.6	6099.5	6229.7	6288.7	6691.6	7265.3	7975.4	8823.8	9570.4
17.5°	6518.6	6522.7	6329.4	6207.3	6286.7	6317.2	6618.3	7147.3	7904.1	8892.9	9782.0
20°	7031.3	7021.2	6679.4	6475.9	6518.6	6526.8	6722.1	7149.3	7898.0	9013.0	10056.7
22.5°	7710.9	7635.6	7175.8	6899.1	6888.9	6876.7	6988.6	7299.9	7987.6	9208.3	10384.2
25°	8597.9	8526.7	7894.0	7515.6	7434.2	7403.7	7419.9	7621.3	8164.6	9417.8	10750.5
27.5°	9584.7	9460.6	8850.2	8315.1	8146.3	8103.5	8005.9	8075.0	8357.8	9619.3	11185.8
30°	10410.7	10343.5	9810.5	9175.7	8976.3	8915.3	8659.0	8583.7	8636.6	9893.9	11735.2
32.5°	10872.5	10827.8	10504.3	9991.6	9806.4	9721.0	9358.8	9208.3	9084.2	10327.3	12479.8
35°	11432.0	11403.5	11208.2	10835.9	10561.2	10471.7	10191.0	10034.3	9714.9	10923.4	13442.1
37.5°	12144.1	12113.6	12117.7	11816.5	11489.0	11405.6	11220.4	11055.6	10532.8	11706.7	14487.9
40°	12949.8	12890.8	12868.4	12854.2	12646.6	12599.8	12502.2	12278.4	11558.2	12642.6	15519.4
42.5°	14162.4	13952.8	13505.2	13674.1	13879.6	13855.1	13934.5	13613.0	12697.5	13749.3	16526.5
45°	15332.2	14988.4	14215.3	14251.9	14701.5	14837.8	15431.9	15204.0	13932.5	14961.9	17568.2
47.5°	15865.3	15604.8	14947.7	14949.7	15395.3	15678.1	16980.2	16817.4	15230.5	16339.3	18839.7
50°	16461.4	16201.0	15610.9	15832.7	16221.3	16522.4	18475.6	18392.1	16465.4	17846.9	20363.6
52.5°	17112.4	16670.9	16296.6	16693.3	17238.6	17588.5	19973.0	19745.1	17598.7	19364.6	22115.3
55°	17120.6	17000.5	17285.4	17576.3	18392.1	18821.4	21541.6	20939.4	18522.4	20856.0	23541.5
57.5°	18095.1	17899.8	18504.0	18638.3	19704.4	20188.6	23102.1	21979.0	19462.3	21999.4	24310.6
60°	19385.0	19218.2	19712.6	20066.6	21328.0	21974.9	24768.4	23047.1	20200.8	22862.0	24274.0
62.5°	21612.8	21423.6	21417.5	21913.9	23612.7	24365.5	26638.1	24094.9	20493.8	23032.9	23238.4
65°	24874.2	24573.0	24005.4	24241.4	26768.3	27519.0	28727.6	24853.8	20107.3	22117.4	20571.1
67.5°	28048.0	28037.8	27340.0	27824.2	30935.0	31537.2	31107.9	24929.1	18900.8	18929.3	15838.8
70°	31211.7	31252.4	31134.4	32819.0	36564.6	37191.2	33643.0	23917.9	16188.7	13670.0	9489.0
72.5°	33718.2	33708.1	34302.2	38645.9	43870.5	43730.2	35779.2	20853.9	11623.3	7379.2	4535.0
75°	32094.7	31740.7	33510.7	41530.8	48128.8	47443.2	33962.4	14546.9	6032.4	3359.0	2441.4
77.5°	20933.3	21269.0	23867.1	34308.3	42098.5	41264.3	24916.9	6787.2	2842.2	2203.4	1770.0
80°	7580.7	7934.7	11175.7	19433.8	29004.2	28867.9	12270.2	2789.3	1922.6	1664.2	1289.9
82.5°	2608.3	2738.5	4408.8	8630.5	16375.9	16986.3	4616.3	1584.9	1397.7	1180.0	883.0
85°	1023.4	1171.9	2016.2	4152.5	8260.2	8321.2	1869.7	948.1	972.5	773.1	484.2
87.5°	388.6	472.0	964.4	1928.7	3772.0	3464.8	669.4	451.7	553.4	459.8	229.9
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°	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2	9206.2
2.5°	9220.5	9263.2	9352.7	9413.8	9478.9	9497.2	9505.3	9521.6	9537.9	9531.8	9533.8
5°	9277.5	9360.9	9505.3	9566.4	9594.8	9562.3	9499.2	9448.4	9411.7	9391.4	9385.3
7.5°	9371.0	9489.0	9643.7	9633.5	9568.4	9423.9	9261.2	9139.1	9037.4	9000.8	8980.4
10°	9495.1	9633.5	9741.3	9625.4	9436.1	9185.9	8941.8	8752.5	8600.0	8541.0	8530.8
12.5°	9653.8	9794.2	9814.6	9568.4	9255.1	8913.3	8581.6	8331.4	8103.5	8030.3	8014.0
15°	9859.3	9991.6	9865.4	9468.7	9031.3	8571.5	8142.2	7802.4	7562.3	7472.8	7440.3
17.5°	10075.0	10201.1	9875.6	9303.9	8738.3	8166.6	7627.4	7279.5	7004.9	6901.1	6888.9
20°	10333.4	10390.3	9832.9	9067.9	8335.5	7641.7	7074.1	6746.5	6600.0	6526.8	6518.6
22.5°	10652.8	10591.8	9735.2	8748.5	7824.8	7035.4	6573.6	6421.0	6384.4	6368.1	6374.2
25°	10990.5	10803.3	9590.8	8331.4	7179.9	6429.1	6207.3	6250.1	6298.9	6292.8	6292.8
27.5°	11362.8	11019.0	9369.0	7778.0	6465.7	5932.7	5959.1	6115.8	6189.0	6187.0	6185.0
30°	11841.0	11263.2	9086.2	7112.7	5798.4	5582.7	5743.5	5934.7	6034.4	6030.3	6032.4
32.5°	12428.9	11531.7	8701.7	6370.1	5316.2	5324.4	5509.5	5698.7	5814.7	5804.5	5806.5
35°	13116.6	11832.8	8180.8	5637.7	4996.8	5118.9	5265.4	5397.6	5507.5	5493.2	5479.0
37.5°	13865.3	12127.8	7489.1	4982.6	4736.4	4927.6	5049.7	5072.1	5122.9	5086.3	5059.9
40°	14577.4	12353.7	6598.0	4445.4	4473.9	4764.9	4844.2	4754.7	4663.1	4650.9	4614.3
42.5°	15197.9	12428.9	5696.7	4016.2	4197.2	4594.0	4642.8	4455.6	4290.8	4213.5	4181.0
45°	15853.1	12455.4	4856.4	3656.0	3930.7	4441.4	4494.3	4244.0	4012.1	3845.3	3790.3
47.5°	16709.6	12646.6	4203.3	3389.5	3727.3	4339.7	4414.9	4075.2	3774.1	3536.0	3485.1
50°	17830.6	13025.1	3672.3	3186.1	3595.0	4272.5	4358.0	3910.4	3578.7	3291.9	3241.0
52.5°	19075.7	13373.0	3243.0	3021.3	3466.8	4154.5	4284.7	3792.4	3395.6	3066.0	3011.1
55°	19946.5	13106.4	2897.2	2850.4	3300.0	3985.6	4183.0	3692.7	3133.2	2846.3	2797.5
57.5°	20113.4	12195.0	2634.7	2673.4	3098.6	3774.1	4026.3	3470.9	2990.8	2750.7	2699.8
60°	19657.6	10925.4	2439.4	2510.6	2882.9	3507.5	3733.4	3314.2	2854.4	2649.0	2606.2
62.5°	18512.2	9625.4	2294.9	2364.1	2681.5	3236.9	3550.3	3149.5	2716.1	2533.0	2490.3
65°	16198.9	8081.1	2156.6	2233.9	2494.3	3003.0	3385.5	2996.9	2579.8	2439.4	2398.7
67.5°	12227.5	6052.7	2026.4	2095.6	2327.5	2799.5	3206.4	2846.3	2447.5	2358.0	2309.2
70°	7200.2	3790.3	1877.9	1951.1	2152.5	2587.9	3015.2	2681.5	2282.7	2242.1	2179.0
72.5°	3350.9	2280.7	1709.0	1780.2	1932.8	2305.1	2769.0	2465.8	2087.4	1997.9	1912.5
75°	1999.9	1668.3	1509.6	1572.7	1680.5	2004.0	2459.7	2246.1	1902.3	1784.3	1694.8
77.5°	1495.4	1275.6	1289.9	1357.0	1444.5	1753.8	2179.0	2073.2	1759.9	1668.3	1607.3
80°	1076.3	968.4	1051.9	1125.1	1216.6	1595.1	2087.4	1916.5	1591.0	1468.9	1412.0
82.5°	718.2	695.8	791.4	866.7	956.2	1395.7	1961.3	1678.5	1359.1	1204.4	1078.3
85°	396.7	419.1	533.0	565.6	642.9	982.7	1607.3	1348.9	1023.4	824.0	787.4
87.5°	164.8	193.3	286.9	276.7	341.8	585.9	1058.0	813.8	651.0	486.3	378.4
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)