

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: P318634

Luminaire Tested: **GAN-SA0A-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318634
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-SA0A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA 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: 38808 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

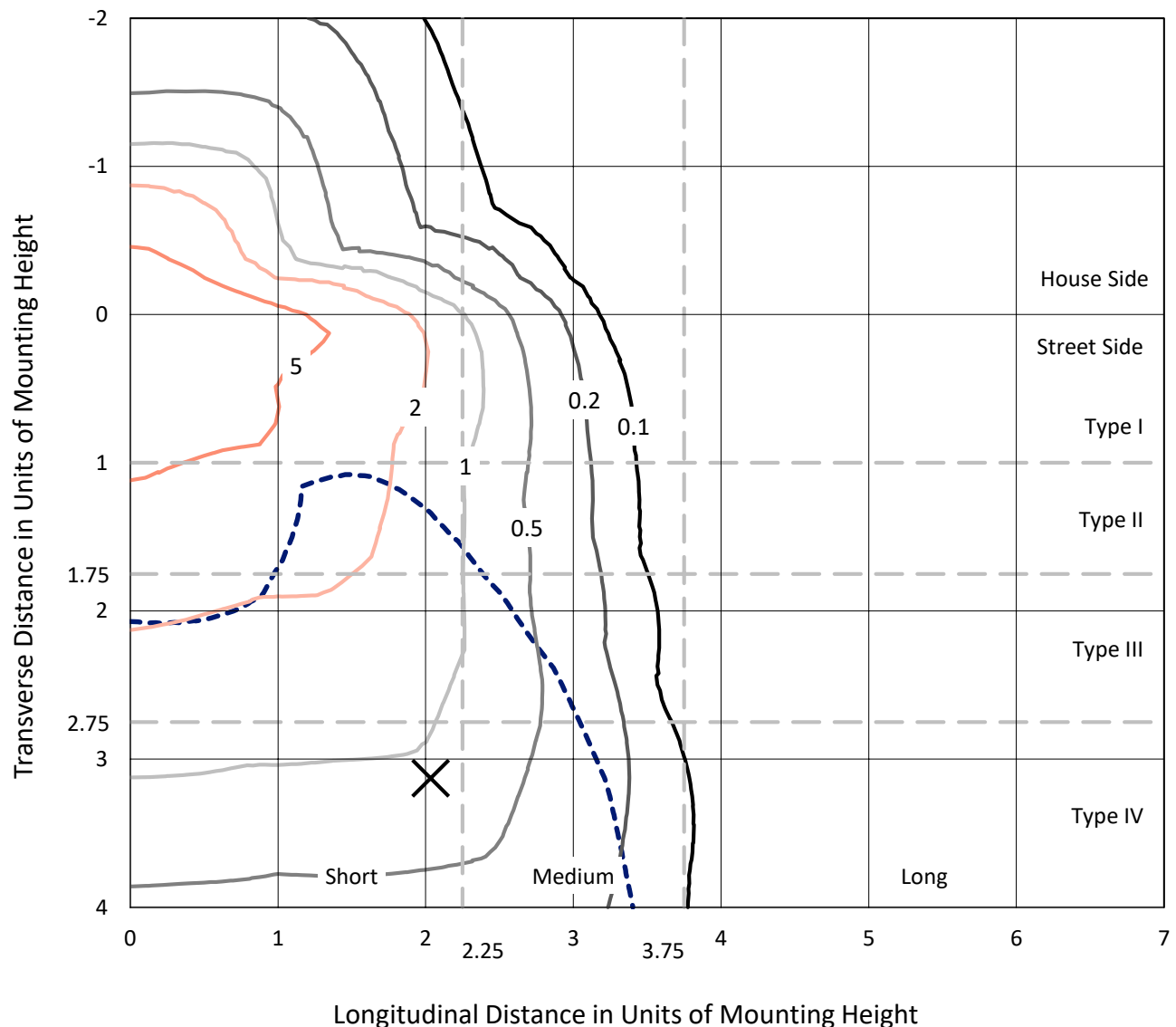
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

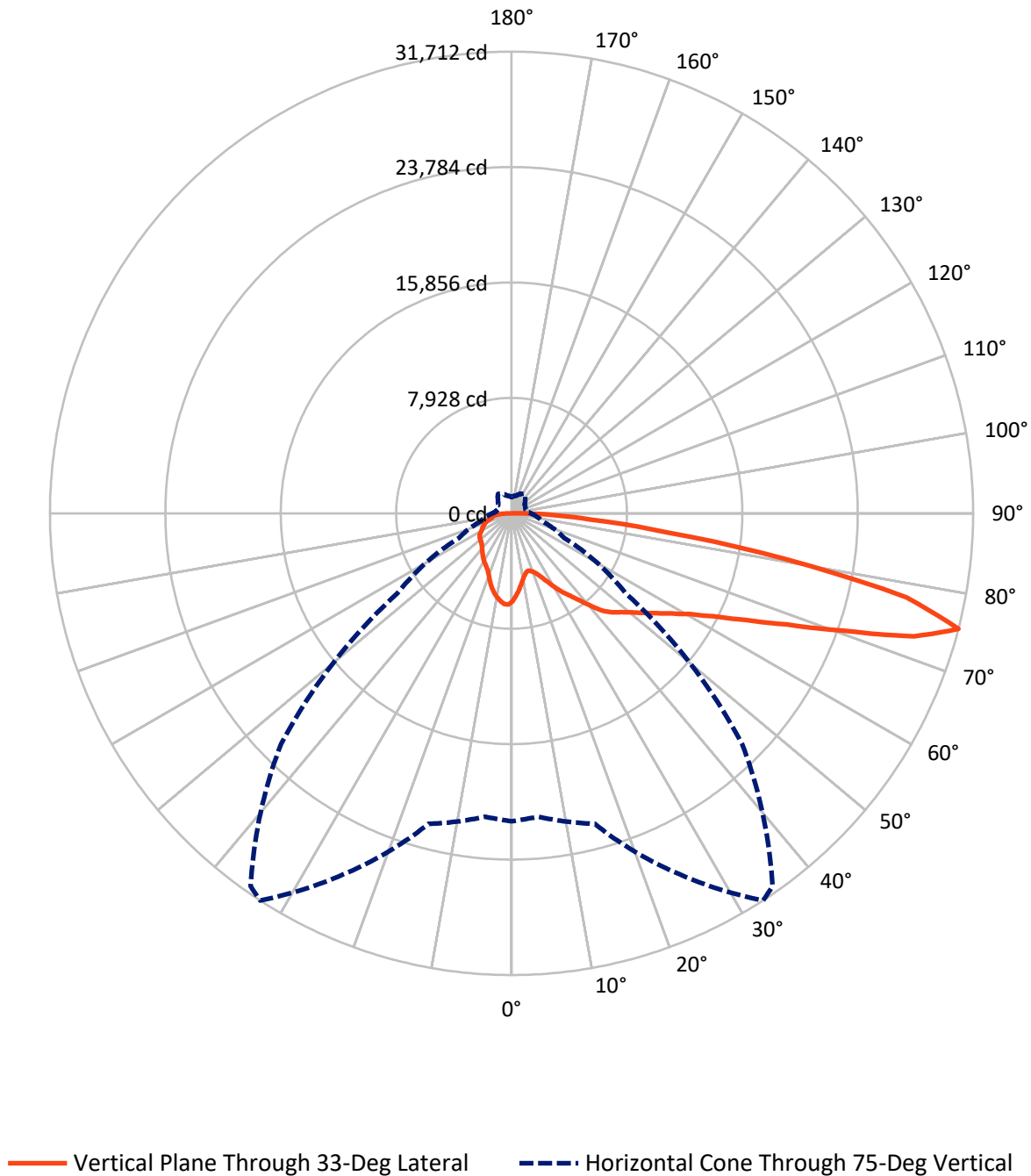
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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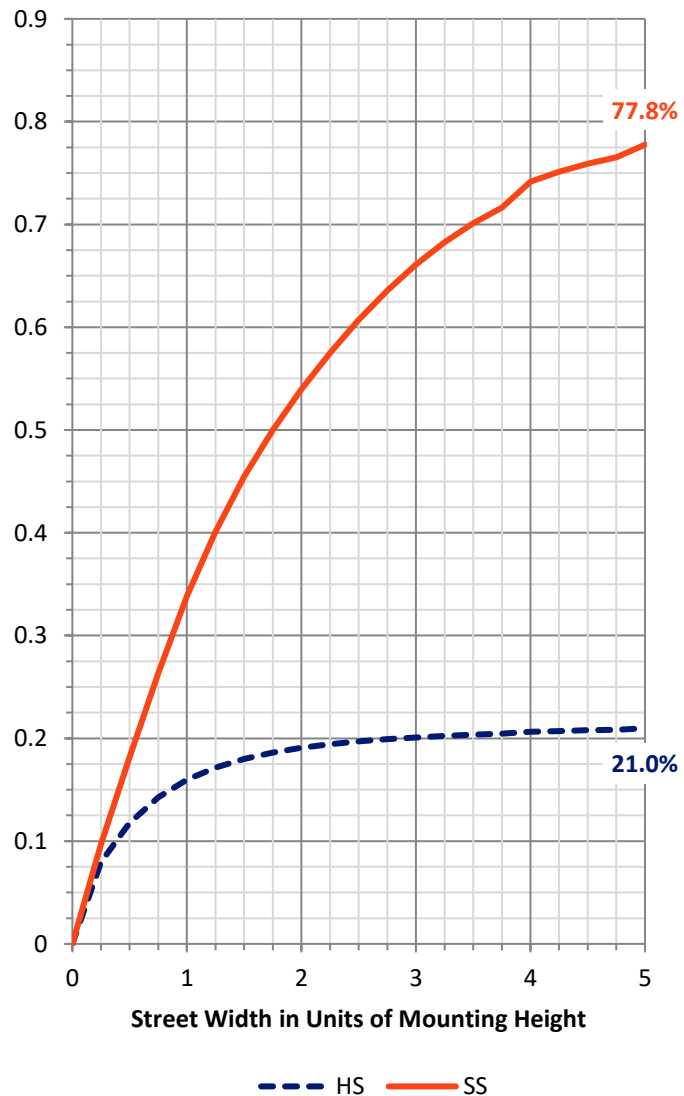
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8333.1	0.0	8333.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	30474.9	0.0	30474.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	38808.0	0.0	38808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.6	1.4
10°-20°	1485.8	3.8
20°-30°	2426.5	6.3
30°-40°	3613.7	9.3
40°-50°	5183.0	13.4
50°-60°	7115.4	18.3
60°-70°	8908.2	23.0
70°-80°	8058.8	20.8
80°-90°	1468.0	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°	38808.0	100.0
0°-180°	38808.0	100.0

Coefficient of Utilization



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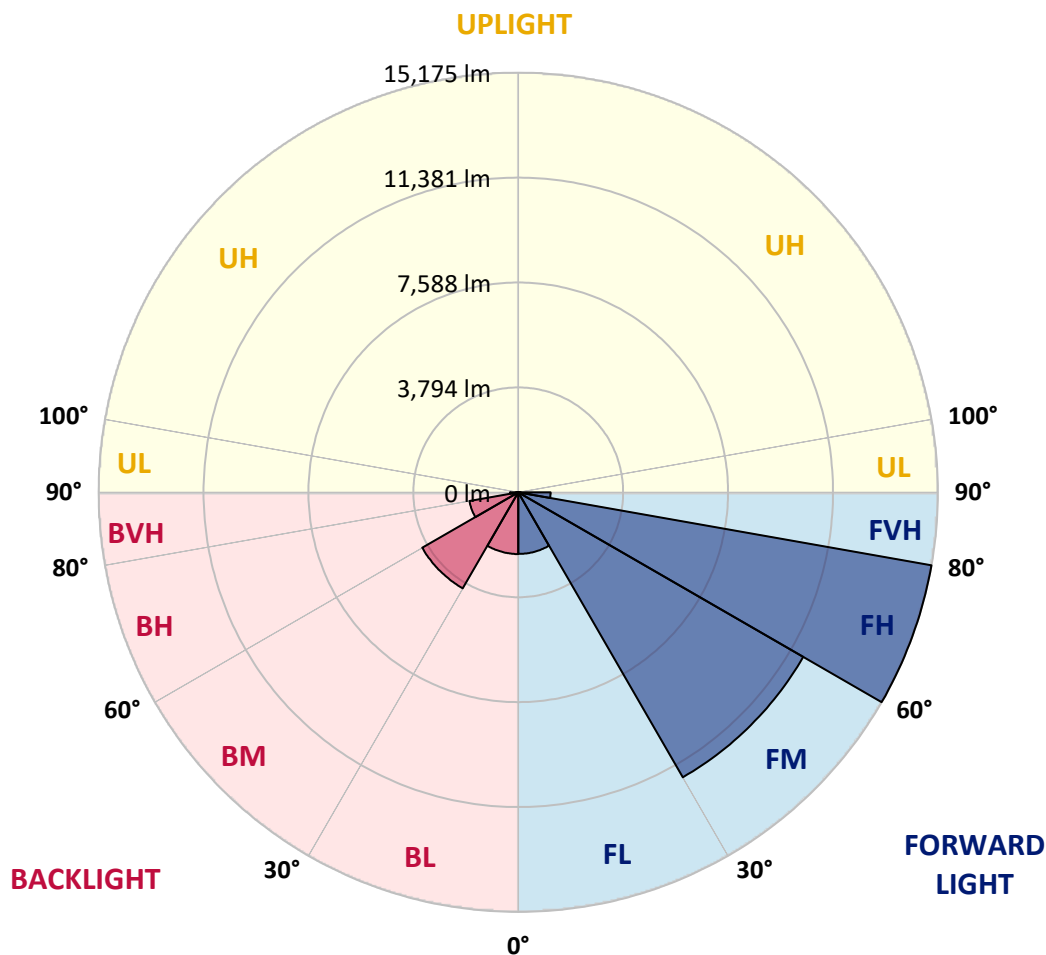
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2228.9	5.7			
FM	(30°-60°)	11901.6	30.7			
FH	(60°-80°)	15175.3	39.1			G5
FVH	(80°-90°)	1169.1	3.0			G5
BL	(0°-30°)	2232.0	5.8	B3/2500		
BM	(30°-60°)	4010.5	10.3	B3/5000		
BH	(60°-80°)	1791.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	298.9	0.8			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9
2.5°	5632.9	5611.5	5651.7	5657.0	5691.9	5705.3	5753.6	5828.6	5890.3	5961.3	6025.7
5°	5122.2	5107.4	5163.7	5203.9	5280.4	5312.5	5426.5	5586.0	5728.1	5889.0	6035.1
7.5°	4636.9	4628.9	4691.9	4783.0	4871.5	4915.7	5112.8	5344.7	5582.0	5842.0	6065.9
10°	4228.0	4225.4	4285.7	4375.5	4505.5	4555.1	4809.8	5115.5	5447.9	5805.8	6118.2
12.5°	3998.8	4008.2	4036.3	4111.4	4232.1	4281.7	4564.5	4923.8	5335.3	5793.8	6194.6
15°	4055.1	4069.9	4021.6	4018.9	4104.7	4143.6	4409.0	4787.0	5254.9	5813.9	6305.9
17.5°	4295.1	4297.7	4170.4	4090.0	4142.2	4162.4	4360.8	4709.3	5208.0	5859.5	6445.3
20°	4632.9	4626.2	4401.0	4266.9	4295.1	4300.4	4429.1	4710.6	5203.9	5938.6	6626.3
22.5°	5080.6	5031.0	4728.1	4545.7	4539.0	4531.0	4604.7	4809.8	5262.9	6067.2	6842.1
25°	5665.1	5618.2	5201.3	4951.9	4898.3	4878.2	4888.9	5021.6	5379.6	6205.3	7083.4
27.5°	6315.2	6233.5	5831.3	5478.8	5367.5	5339.3	5275.0	5320.6	5506.9	6338.0	7370.2
30°	6859.5	6815.3	6464.0	6045.8	5914.4	5874.2	5705.3	5655.7	5690.6	6519.0	7732.2
32.5°	7163.8	7134.3	6921.2	6583.4	6461.4	6405.1	6166.4	6067.2	5985.5	6804.5	8222.8
35°	7532.5	7513.7	7385.0	7139.7	6958.7	6899.7	6714.7	6611.5	6401.0	7197.3	8856.9
37.5°	8001.6	7981.5	7984.2	7785.8	7570.0	7515.0	7393.0	7284.5	6939.9	7713.4	9545.9
40°	8532.5	8493.6	8478.9	8469.5	8332.7	8301.9	8237.6	8090.1	7615.6	8330.1	10225.6
42.5°	9331.4	9193.4	8898.5	9009.7	9145.1	9129.0	9181.3	8969.5	8366.3	9059.3	10889.1
45°	10102.3	9875.7	9366.3	9390.4	9686.7	9776.5	10167.9	10017.8	9180.0	9858.3	11575.5
47.5°	10453.5	10281.9	9848.9	9850.2	10143.8	10330.1	11188.1	11080.8	10035.2	10765.8	12413.3
50°	10846.2	10674.7	10285.9	10432.0	10688.1	10886.5	12173.4	12118.4	10848.9	11759.1	13417.4
52.5°	11275.2	10984.3	10737.7	10999.1	11358.3	11588.9	13160.0	13009.9	11595.6	12759.2	14571.6
55°	11280.6	11201.5	11389.2	11580.9	12118.4	12401.3	14193.6	13796.8	12204.2	13741.8	15511.3
57.5°	11922.7	11794.0	12192.1	12280.6	12983.1	13302.1	15221.7	14481.8	12823.5	14495.2	16018.0
60°	12772.6	12662.7	12988.4	13221.7	14052.8	14479.1	16319.6	15185.5	13310.1	15063.6	15993.9
62.5°	14240.5	14115.8	14111.8	14438.9	15558.2	16054.2	17551.6	15875.9	13503.2	15176.2	15311.6
65°	16389.3	16190.9	15816.9	15972.4	17637.4	18132.0	18928.3	16375.9	13248.5	14572.9	13554.1
67.5°	18480.6	18473.9	18014.1	18333.1	20382.8	20779.6	20496.7	16425.5	12453.5	12472.3	10436.0
70°	20565.1	20591.9	20514.2	21624.1	24092.0	24504.9	22167.0	15759.3	10666.6	9007.0	6252.2
72.5°	22216.6	22209.9	22601.4	25463.4	28905.9	28813.4	23574.6	13740.5	7658.5	4862.1	2988.0
75°	21146.9	20913.6	22079.9	27364.3	31711.6	31259.9	22377.5	9584.8	3974.7	2213.2	1608.6
77.5°	13792.7	14013.9	15725.8	22605.4	27738.3	27188.7	16417.5	4472.0	1872.7	1451.8	1166.3
80°	4994.8	5228.1	7363.5	12804.8	19110.6	19020.8	8084.7	1837.9	1266.8	1096.6	849.9
82.5°	1718.6	1804.4	2904.9	5686.5	10789.9	11192.1	3041.7	1044.3	920.9	777.5	581.8
85°	674.3	772.1	1328.5	2736.0	5442.6	5482.8	1231.9	624.7	640.8	509.4	319.0
87.5°	256.0	311.0	635.4	1270.8	2485.3	2282.9	441.0	297.6	364.6	303.0	151.5
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°	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9	6065.9
2.5°	6075.3	6103.4	6162.4	6202.6	6245.5	6257.6	6263.0	6273.7	6284.4	6280.4	6281.7
5°	6112.8	6167.8	6263.0	6303.2	6321.9	6300.5	6258.9	6225.4	6201.3	6187.9	6183.9
7.5°	6174.5	6252.2	6354.1	6347.4	6304.5	6209.3	6102.1	6021.7	5954.6	5930.5	5917.1
10°	6256.3	6347.4	6418.5	6342.1	6217.4	6052.5	5891.6	5767.0	5666.4	5627.6	5620.9
12.5°	6360.8	6453.3	6466.7	6304.5	6098.1	5872.9	5654.4	5489.5	5339.3	5291.1	5280.4
15°	6496.2	6583.4	6500.2	6238.8	5950.6	5647.7	5364.8	5140.9	4982.8	4923.8	4902.3
17.5°	6638.3	6721.4	6506.9	6130.3	5757.6	5380.9	5025.7	4796.4	4615.5	4547.1	4539.0
20°	6808.6	6846.1	6478.8	5974.8	5492.2	5035.0	4661.0	4445.2	4348.7	4300.4	4295.1
22.5°	7019.0	6978.8	6414.4	5764.3	5155.7	4635.6	4331.3	4230.7	4206.6	4195.9	4199.9
25°	7241.6	7118.2	6319.3	5489.5	4730.7	4236.1	4090.0	4118.1	4150.3	4146.3	4146.3
27.5°	7486.9	7260.3	6173.2	5124.9	4260.2	3909.0	3926.4	4029.6	4077.9	4076.6	4075.2
30°	7801.9	7421.2	5986.8	4686.5	3820.5	3678.4	3784.3	3910.3	3976.0	3973.3	3974.7
32.5°	8189.3	7598.1	5733.5	4197.2	3502.8	3508.2	3630.2	3754.8	3831.2	3824.5	3825.9
35°	8642.4	7796.5	5390.3	3714.6	3292.3	3372.8	3469.3	3556.4	3628.8	3619.4	3610.1
37.5°	9135.7	7990.9	4934.5	3283.0	3120.8	3246.8	3327.2	3341.9	3375.5	3351.3	3333.9
40°	9604.9	8139.7	4347.3	2929.1	2947.8	3139.5	3191.8	3132.8	3072.5	3064.5	3040.3
42.5°	10013.8	8189.3	3753.5	2646.2	2765.5	3026.9	3059.1	2935.8	2827.2	2776.2	2754.8
45°	10445.4	8206.7	3199.9	2408.9	2589.9	2926.4	2961.2	2796.4	2643.5	2533.6	2497.4
47.5°	11009.8	8332.7	2769.5	2233.3	2455.9	2859.4	2909.0	2685.1	2486.7	2329.8	2296.3
50°	11748.4	8582.1	2419.7	2099.3	2368.7	2815.1	2871.4	2576.5	2358.0	2169.0	2135.5
52.5°	12568.8	8811.3	2136.8	1990.7	2284.3	2737.4	2823.2	2498.8	2237.3	2020.2	1984.0
55°	13142.6	8635.7	1908.9	1878.1	2174.3	2626.1	2756.1	2433.1	2064.4	1875.4	1843.2
57.5°	13252.5	8035.1	1736.0	1761.5	2041.6	2486.7	2652.9	2286.9	1970.6	1812.4	1778.9
60°	12952.2	7198.7	1607.3	1654.2	1899.5	2311.1	2459.9	2183.7	1880.8	1745.4	1717.2
62.5°	12197.5	6342.1	1512.1	1557.7	1766.8	2132.8	2339.2	2075.1	1789.6	1669.0	1640.8
65°	10673.3	5324.6	1421.0	1471.9	1643.5	1978.6	2230.6	1974.6	1699.8	1607.3	1580.5
67.5°	8056.6	3988.1	1335.2	1380.7	1533.6	1844.6	2112.7	1875.4	1612.7	1553.7	1521.5
70°	4744.1	2497.4	1237.3	1285.6	1418.3	1705.2	1986.7	1766.8	1504.1	1477.3	1435.7
72.5°	2207.9	1502.7	1126.0	1173.0	1273.5	1518.8	1824.5	1624.7	1375.4	1316.4	1260.1
75°	1317.7	1099.2	994.7	1036.2	1107.3	1320.4	1620.7	1479.9	1253.4	1175.6	1116.7
77.5°	985.3	840.5	849.9	894.1	951.8	1155.5	1435.7	1366.0	1159.6	1099.2	1059.0
80°	709.1	638.1	693.1	741.3	801.6	1051.0	1375.4	1262.8	1048.3	967.9	930.3
82.5°	473.2	458.5	521.5	571.1	630.1	919.6	1292.3	1105.9	895.5	793.6	710.5
85°	261.4	276.1	351.2	372.7	423.6	647.5	1059.0	888.8	674.3	542.9	518.8
87.5°	108.6	127.4	189.0	182.3	225.2	386.1	697.1	536.2	429.0	320.4	249.3
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)