

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: P318843

Luminaire Tested: **GAN-SA9B-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318843
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-SA9B-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 37782 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

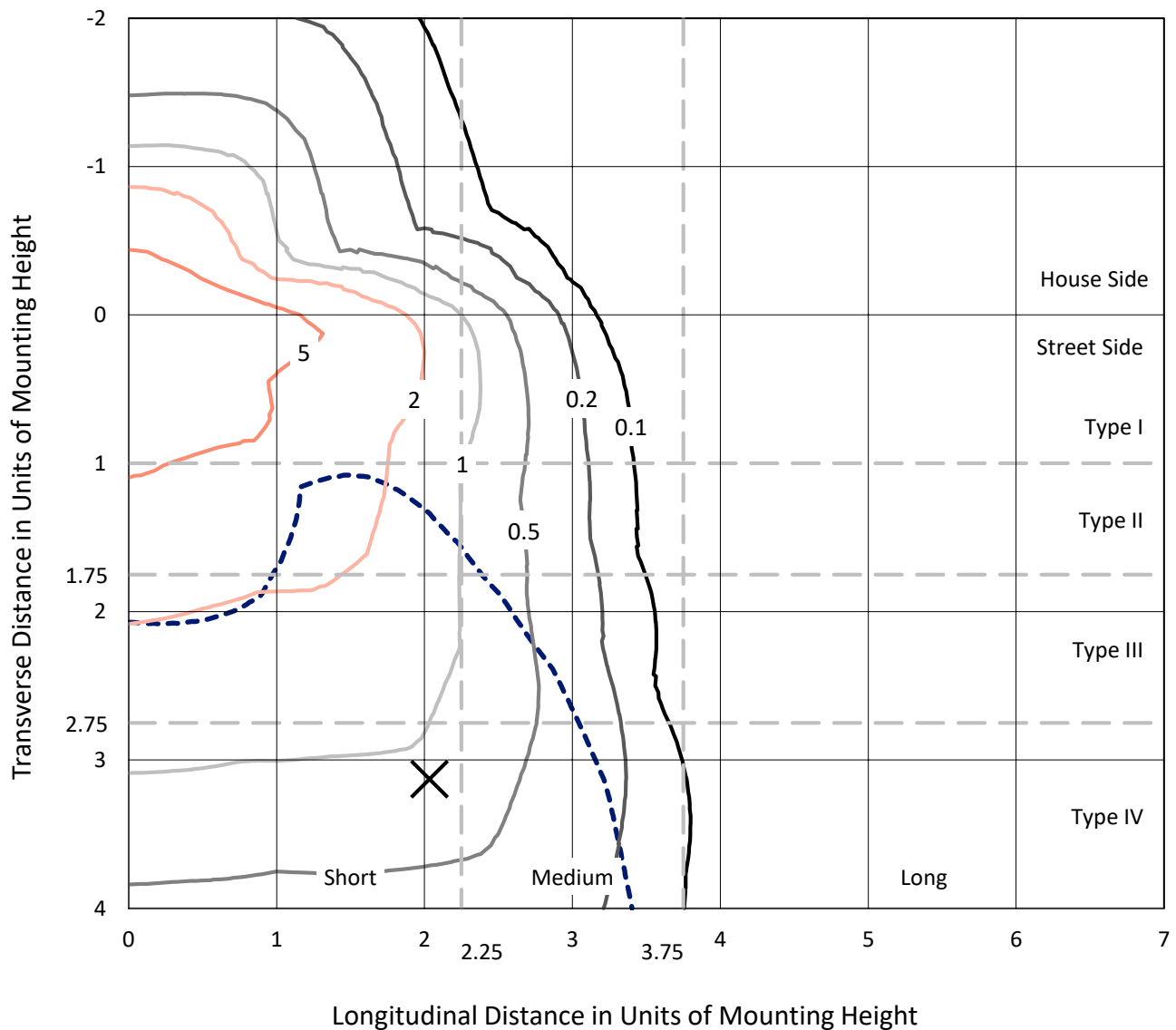
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

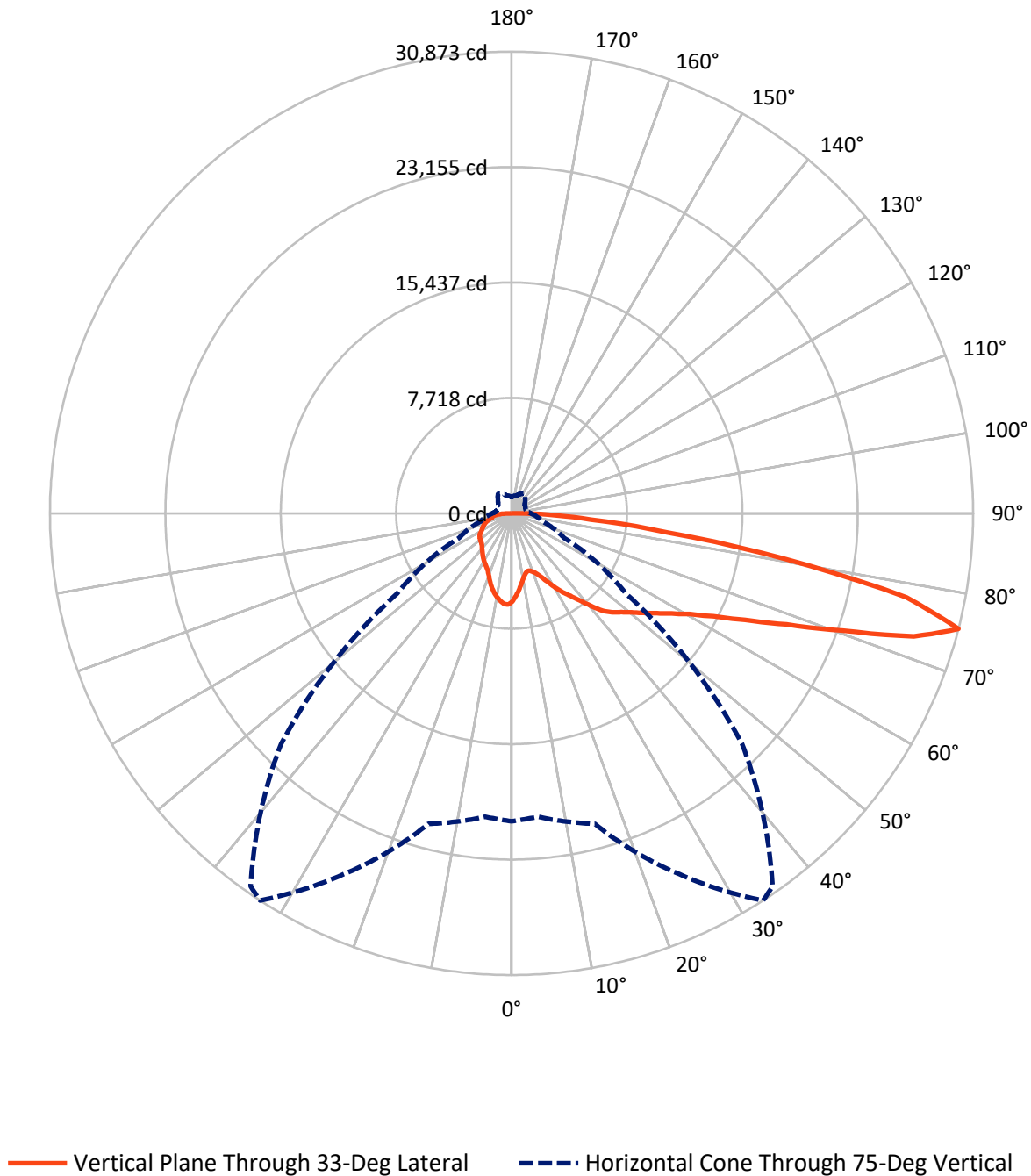
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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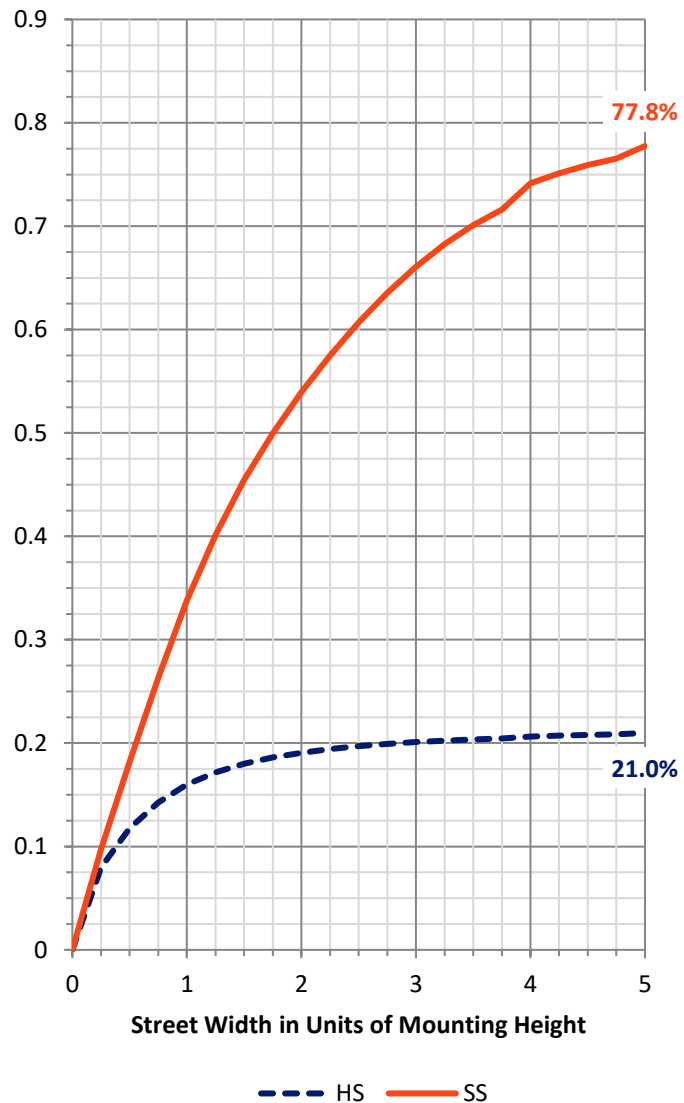
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8112.8	0.0	8112.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	29669.2	0.0	29669.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	37782.0	0.0	37782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.1	1.4
10°-20°	1446.5	3.8
20°-30°	2362.4	6.3
30°-40°	3518.1	9.3
40°-50°	5046.0	13.4
50°-60°	6927.3	18.3
60°-70°	8672.7	23.0
70°-80°	7845.8	20.8
80°-90°	1429.2	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°	37782.0	100.0
0°-180°	37782.0	100.0

Coefficient of Utilization



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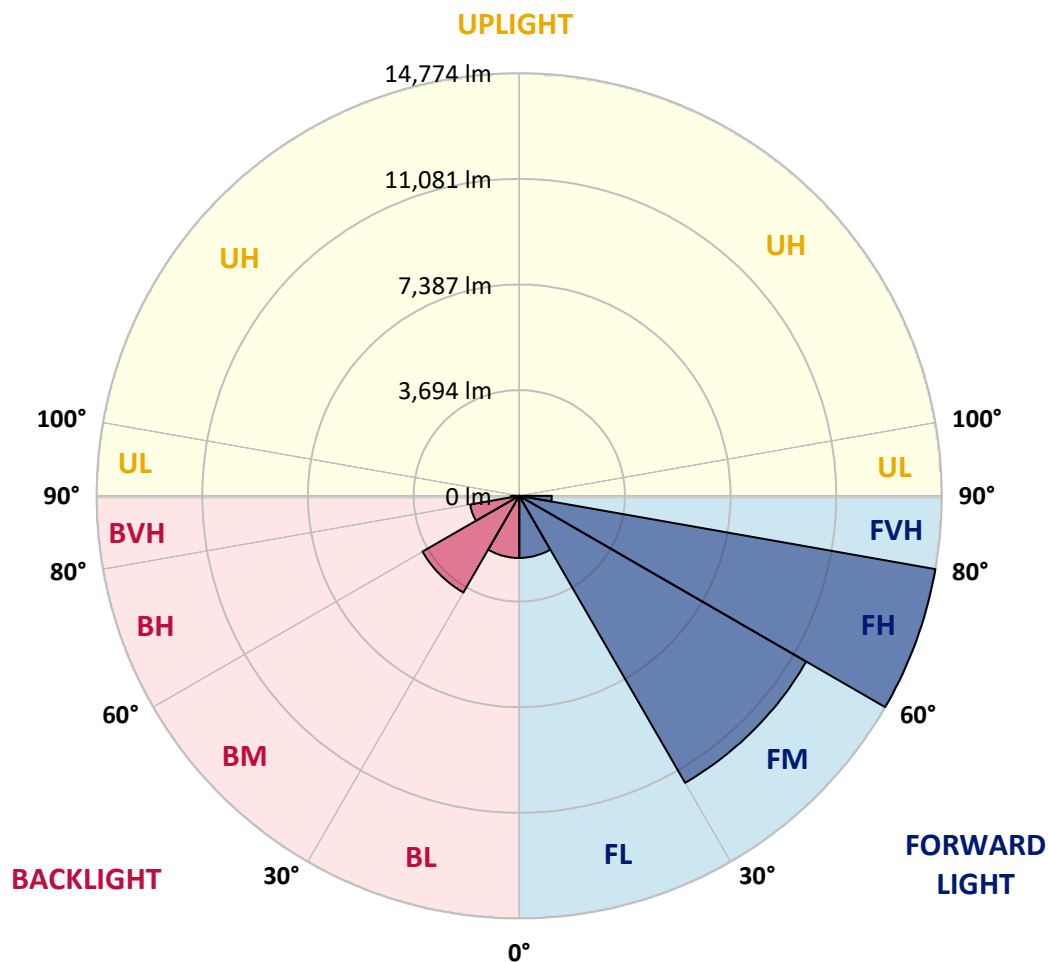
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2170.0	5.7			
FM	(30°-60°)	11586.9	30.7			
FH	(60°-80°)	14774.1	39.1			G5
FVH	(80°-90°)	1138.2	3.0			G5
BL	(0°-30°)	2173.0	5.8	B3/2500		
BM	(30°-60°)	3904.4	10.3	B3/5000		
BH	(60°-80°)	1744.4	4.6	B3/2500		G3/2500
BVH	(80°-90°)	291.0	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°	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5
2.5°	5484.0	5463.1	5502.3	5507.5	5541.4	5554.5	5601.5	5674.5	5734.6	5803.7	5866.4
5°	4986.8	4972.4	5027.2	5066.4	5140.8	5172.1	5283.0	5438.3	5576.7	5733.3	5875.5
7.5°	4514.3	4506.5	4567.8	4656.6	4742.7	4785.8	4977.6	5203.4	5434.4	5687.6	5905.5
10°	4116.3	4113.6	4172.4	4259.8	4386.4	4434.7	4682.7	4980.2	5303.9	5652.4	5956.4
12.5°	3893.1	3902.2	3929.6	4002.7	4120.2	4168.5	4443.8	4793.6	5194.3	5640.6	6030.8
15°	3947.9	3962.3	3915.3	3912.7	3996.2	4034.0	4292.4	4660.5	5116.0	5660.2	6139.1
17.5°	4181.5	4184.1	4060.1	3981.8	4032.7	4052.3	4245.5	4584.8	5070.3	5704.6	6274.9
20°	4510.4	4503.9	4284.6	4154.1	4181.5	4186.7	4312.0	4586.1	5066.4	5781.6	6451.1
22.5°	4946.3	4898.0	4603.1	4425.6	4419.0	4411.2	4483.0	4682.7	5123.8	5906.8	6661.2
25°	5515.3	5469.6	5063.8	4821.0	4768.8	4749.2	4759.7	4888.9	5237.3	6041.3	6896.1
27.5°	6148.3	6068.7	5677.1	5333.9	5225.6	5198.2	5135.5	5179.9	5361.3	6170.5	7175.4
30°	6678.2	6635.1	6293.2	5886.0	5758.1	5718.9	5554.5	5506.2	5540.1	6346.7	7527.8
32.5°	6974.4	6945.7	6738.2	6409.3	6290.5	6235.7	6003.4	5906.8	5827.2	6624.6	8005.4
35°	7333.3	7315.0	7189.7	6950.9	6774.7	6717.3	6537.2	6436.7	6231.8	7007.0	8622.7
37.5°	7790.1	7770.5	7773.1	7580.0	7369.9	7316.3	7197.6	7091.9	6756.5	7509.5	9293.6
40°	8306.9	8269.1	8254.7	8245.6	8112.4	8082.4	8019.8	7876.2	7414.2	8109.8	9955.2
42.5°	9084.7	8950.3	8663.2	8771.5	8903.3	8887.7	8938.6	8732.4	8145.1	8819.8	10601.3
45°	9835.2	9614.6	9118.7	9142.2	9430.6	9518.0	9899.1	9752.9	8937.3	9597.6	11269.5
47.5°	10177.1	10010.1	9588.5	9589.8	9875.6	10057.0	10892.3	10787.9	9769.9	10481.2	12085.1
50°	10559.5	10392.4	10014.0	10156.2	10405.5	10598.6	11851.5	11798.0	10562.1	11448.3	13062.7
52.5°	10977.1	10693.9	10453.8	10708.3	11058.0	11282.5	12812.1	12665.9	11289.0	12421.9	14186.3
55°	10982.3	10905.3	11088.1	11274.7	11798.0	12073.4	13818.3	13432.0	11881.6	13378.5	15101.2
57.5°	11607.5	11482.2	11869.8	11955.9	12639.8	12950.4	14819.3	14098.9	12484.5	14112.0	15594.5
60°	12434.9	12327.9	12645.0	12872.1	13681.3	14096.3	15888.2	14784.1	12958.3	14665.3	15571.0
62.5°	13864.0	13742.6	13738.7	14057.1	15146.9	15629.8	17087.6	15456.2	13146.2	14774.9	14906.8
65°	15956.0	15762.9	15398.8	15550.2	17171.1	17652.7	18427.9	15943.0	12898.2	14187.6	13195.8
67.5°	17992.0	17985.5	17537.8	17848.4	19843.9	20230.2	19954.8	15991.3	12124.3	12142.6	10160.1
70°	20021.4	20047.5	19971.8	21052.4	23455.1	23857.1	21581.0	15342.7	10384.6	8768.9	6086.9
72.5°	21629.3	21622.8	22003.8	24790.2	28141.7	28051.6	22951.3	13377.2	7456.0	4733.6	2909.0
75°	20587.8	20360.7	21496.2	26640.8	30873.2	30433.4	21785.9	9331.4	3869.6	2154.7	1566.1
77.5°	13428.1	13643.4	15310.0	22007.8	27005.0	26469.9	15983.5	4353.8	1823.2	1413.4	1135.4
80°	4862.8	5089.9	7168.9	12466.2	18605.4	18517.9	7871.0	1789.3	1233.3	1067.6	827.4
82.5°	1673.1	1756.7	2828.1	5536.2	10504.7	10896.2	2961.3	1016.7	896.6	757.0	566.4
85°	656.5	751.7	1293.3	2663.7	5298.7	5337.8	1199.4	608.2	623.8	495.9	310.6
87.5°	249.3	302.8	618.6	1237.2	2419.6	2222.6	429.4	289.7	355.0	295.0	147.5
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°	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5	5905.5
2.5°	5914.7	5942.1	5999.5	6038.7	6080.4	6092.2	6097.4	6107.8	6118.3	6114.4	6115.7
5°	5951.2	6004.7	6097.4	6136.5	6154.8	6133.9	6093.5	6060.8	6037.4	6024.3	6020.4
7.5°	6011.3	6086.9	6186.1	6179.6	6137.8	6045.2	5940.8	5862.5	5797.2	5773.7	5760.7
10°	6090.9	6179.6	6248.8	6174.4	6053.0	5892.5	5735.9	5614.5	5516.6	5478.8	5472.2
12.5°	6192.7	6282.7	6295.8	6137.8	5936.9	5717.6	5504.9	5344.3	5198.2	5151.2	5140.8
15°	6324.5	6409.3	6328.4	6073.9	5793.3	5498.3	5223.0	5005.0	4851.0	4793.6	4772.7
17.5°	6462.8	6543.7	6334.9	5968.2	5605.4	5238.6	4892.8	4669.6	4493.4	4426.9	4419.0
20°	6628.6	6665.1	6307.5	5816.8	5347.0	4901.9	4537.8	4327.7	4233.7	4186.7	4181.5
22.5°	6833.5	6794.3	6244.9	5611.9	5019.4	4513.0	4216.8	4118.9	4095.4	4084.9	4088.9
25°	7050.1	6930.0	6152.2	5344.3	4605.7	4124.1	3981.8	4009.2	4040.6	4036.6	4036.6
27.5°	7288.9	7068.4	6009.9	4989.4	4147.6	3805.6	3822.6	3923.1	3970.1	3968.8	3967.5
30°	7595.6	7225.0	5828.5	4562.6	3719.5	3581.2	3684.3	3807.0	3870.9	3868.3	3869.6
32.5°	7972.8	7397.3	5581.9	4086.2	3410.2	3415.4	3534.2	3655.6	3730.0	3723.4	3724.7
35°	8413.9	7590.4	5247.8	3616.4	3205.3	3283.6	3377.6	3462.4	3532.9	3523.7	3514.6
37.5°	8894.2	7779.6	4804.0	3196.2	3038.3	3160.9	3239.2	3253.6	3286.2	3262.7	3245.8
40°	9351.0	7924.5	4232.4	2851.6	2869.9	3056.5	3107.4	3050.0	2991.3	2983.4	2959.9
42.5°	9749.0	7972.8	3654.3	2576.3	2692.4	2946.9	2978.2	2858.2	2752.4	2702.8	2682.0
45°	10169.3	7989.8	3115.3	2345.2	2521.4	2849.0	2882.9	2722.4	2573.6	2466.6	2431.4
47.5°	10718.7	8112.4	2696.3	2174.3	2390.9	2783.8	2832.0	2614.1	2420.9	2268.2	2235.6
50°	11437.8	8355.2	2355.7	2043.8	2306.1	2740.7	2795.5	2508.4	2295.7	2111.6	2079.0
52.5°	12236.5	8578.4	2080.3	1938.1	2223.9	2665.0	2748.5	2432.7	2178.2	1966.8	1931.5
55°	12795.1	8407.4	1858.5	1828.4	2116.9	2556.7	2683.3	2368.7	2009.8	1825.8	1794.5
57.5°	12902.1	7822.7	1690.1	1714.9	1987.7	2420.9	2582.8	2226.5	1918.5	1764.5	1731.9
60°	12609.8	7008.3	1564.8	1610.5	1849.3	2250.0	2394.8	2126.0	1831.0	1699.2	1671.8
62.5°	11875.0	6174.4	1472.1	1516.5	1720.1	2076.4	2277.4	2020.3	1742.3	1624.8	1597.4
65°	10391.1	5183.8	1383.4	1433.0	1600.0	1926.3	2171.7	1922.4	1654.9	1564.8	1538.7
67.5°	7843.6	3882.6	1299.9	1344.2	1493.0	1795.8	2056.8	1825.8	1570.0	1512.6	1481.3
70°	4618.7	2431.4	1204.6	1251.6	1380.8	1660.1	1934.1	1720.1	1464.3	1438.2	1397.8
72.5°	2149.5	1463.0	1096.3	1142.0	1239.8	1478.7	1776.2	1581.8	1339.0	1281.6	1226.8
75°	1282.9	1070.2	968.4	1008.8	1078.0	1285.5	1577.9	1440.8	1220.3	1144.6	1087.1
77.5°	959.2	818.3	827.4	870.5	926.6	1125.0	1397.8	1329.9	1128.9	1070.2	1031.0
80°	690.4	621.2	674.7	721.7	780.4	1023.2	1339.0	1229.4	1020.6	942.3	905.7
82.5°	460.7	446.3	507.7	556.0	613.4	895.3	1258.1	1076.7	871.8	772.6	691.7
85°	254.5	268.8	341.9	362.8	412.4	630.4	1031.0	865.3	656.5	528.6	505.1
87.5°	105.7	124.0	184.0	177.5	219.3	375.9	678.6	522.0	417.6	311.9	242.7
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)