

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: P318883

Luminaire Tested: **GAN-SA9B-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318883
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-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 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: 40841 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

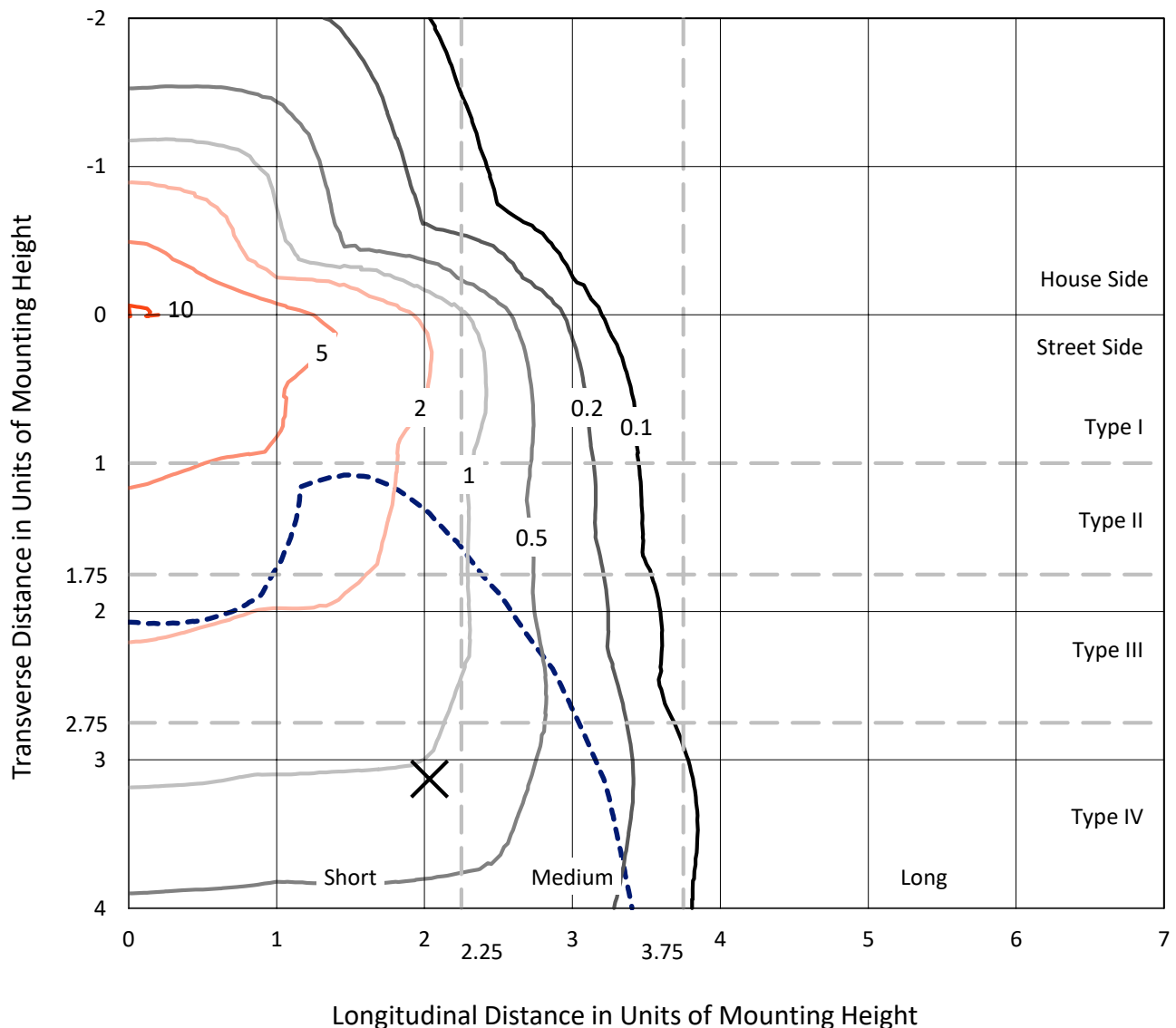
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

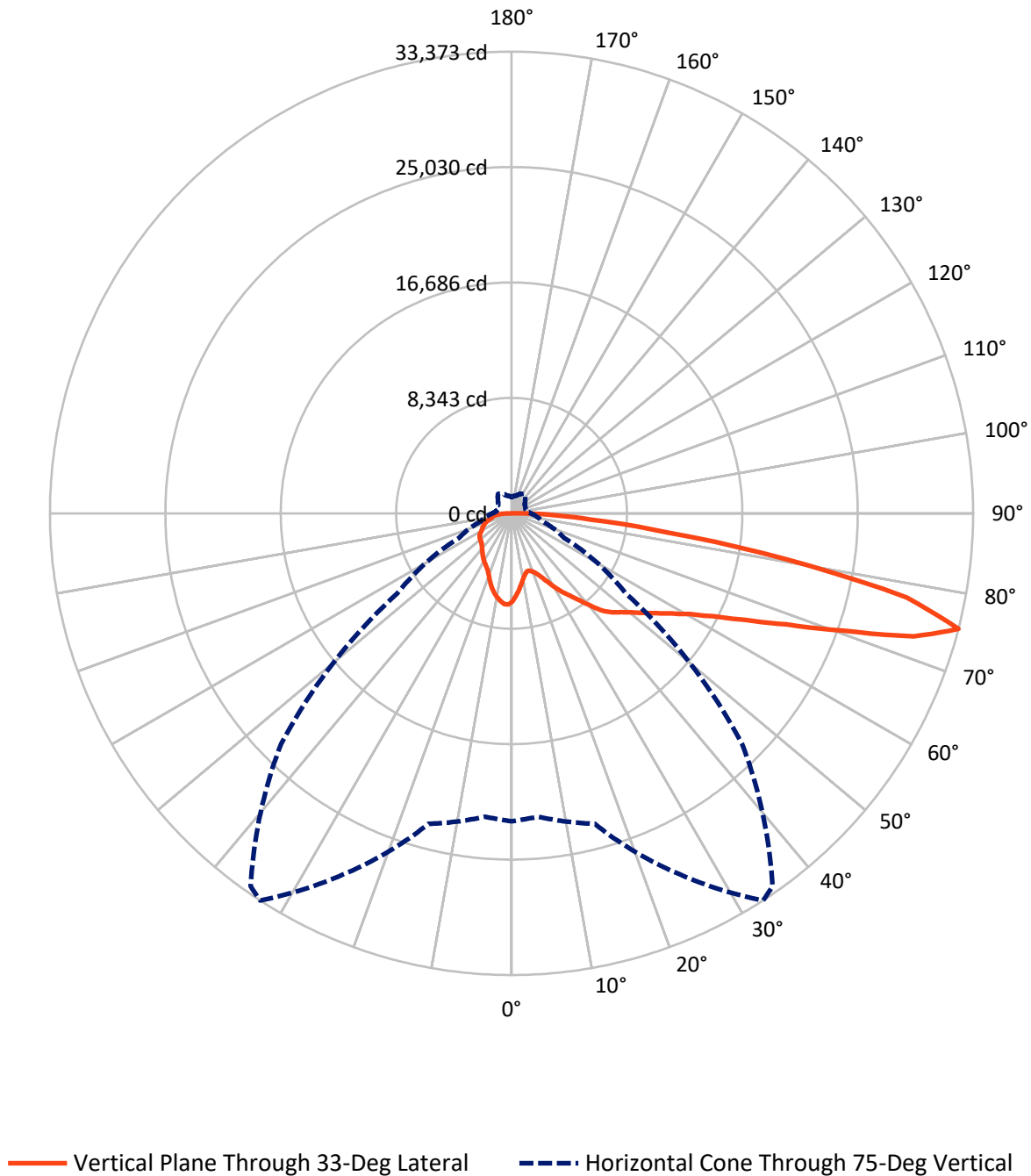
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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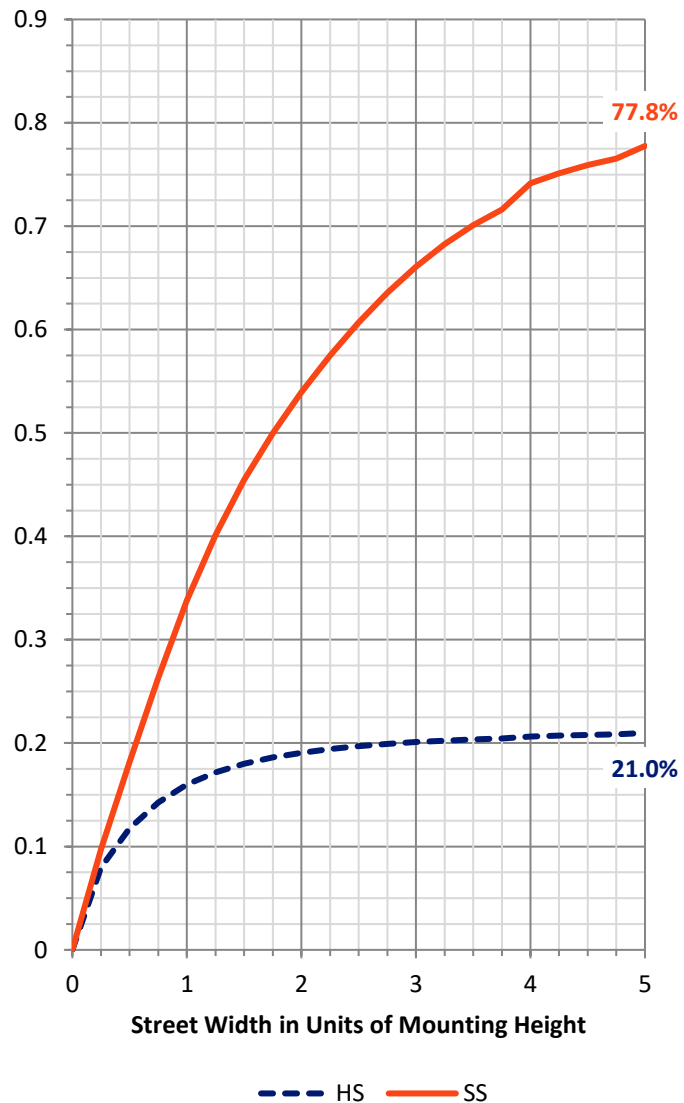
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8769.6	0.0	8769.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	32071.4	0.0	32071.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	40841.0	0.0	40841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.3	1.4
10°-20°	1563.6	3.8
20°-30°	2553.7	6.3
30°-40°	3803.0	9.3
40°-50°	5454.5	13.4
50°-60°	7488.2	18.3
60°-70°	9374.9	23.0
70°-80°	8481.0	20.8
80°-90°	1544.9	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°	40841.0	100.0
0°-180°	40841.0	100.0

Coefficient of Utilization



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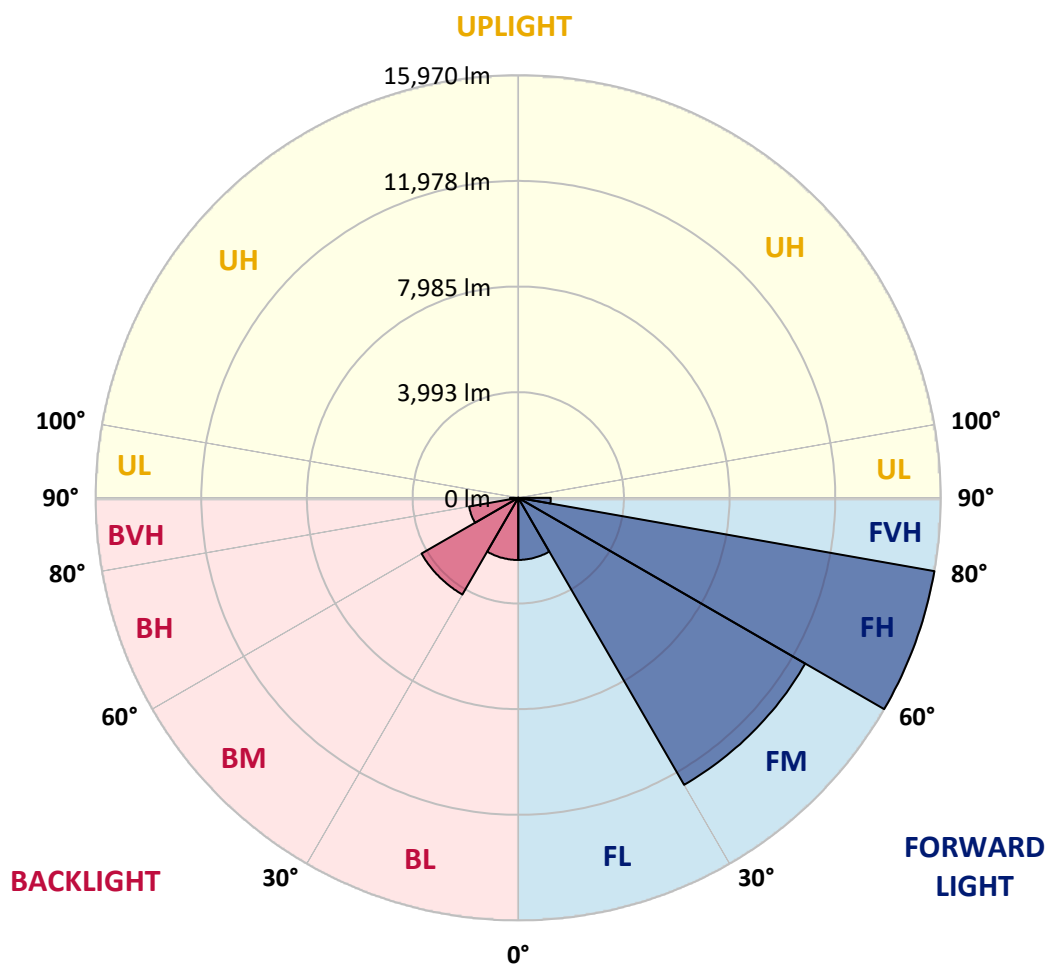
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2345.7	5.7			
FM	(30°-60°)	12525.1	30.7			
FH	(60°-80°)	15970.3	39.1			G5
FVH	(80°-90°)	1230.3	3.0			G5
BL	(0°-30°)	2348.9	5.8	B3/2500		
BM	(30°-60°)	4220.6	10.3	B3/5000		
BH	(60°-80°)	1885.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	314.5	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°	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7
2.5°	5928.0	5905.4	5947.8	5953.4	5990.1	6004.2	6055.0	6134.0	6198.9	6273.6	6341.4
5°	5390.5	5375.0	5434.2	5476.6	5557.0	5590.8	5710.7	5878.6	6028.2	6197.5	6351.2
7.5°	4879.8	4871.3	4937.7	5033.6	5126.7	5173.2	5380.6	5624.7	5874.4	6148.1	6383.7
10°	4449.5	4446.7	4510.2	4604.7	4741.6	4793.8	5061.8	5383.5	5733.3	6110.0	6438.7
12.5°	4208.3	4218.2	4247.8	4326.8	4453.8	4506.0	4803.6	5181.7	5614.8	6097.3	6519.1
15°	4267.5	4283.1	4232.3	4229.5	4319.7	4360.7	4640.0	5037.8	5530.2	6118.5	6636.2
17.5°	4520.1	4522.9	4388.9	4304.2	4359.2	4380.4	4589.2	4956.0	5480.8	6166.4	6782.9
20°	4875.6	4868.5	4631.5	4490.4	4520.1	4525.7	4661.1	4957.4	5476.6	6249.7	6973.4
22.5°	5346.8	5294.6	4975.7	4783.9	4776.8	4768.4	4846.0	5061.8	5538.6	6385.1	7200.5
25°	5961.9	5912.5	5473.7	5211.3	5154.9	5133.7	5145.0	5284.7	5661.4	6530.4	7454.4
27.5°	6646.1	6560.0	6136.8	5765.8	5648.7	5619.0	5551.3	5599.3	5795.4	6670.1	7756.3
30°	7218.8	7172.3	6802.7	6362.5	6224.3	6181.9	6004.2	5952.0	5988.7	6860.5	8137.2
32.5°	7539.1	7508.1	7283.7	6928.2	6799.9	6740.6	6489.5	6385.1	6299.0	7161.0	8653.6
35°	7927.0	7907.3	7771.9	7513.7	7323.2	7261.2	7066.5	6957.9	6736.4	7574.4	9320.9
37.5°	8420.8	8399.6	8402.5	8193.7	7966.5	7908.7	7780.3	7666.1	7303.5	8117.5	10046.0
40°	8979.5	8938.6	8923.0	8913.2	8769.3	8736.8	8669.1	8513.9	8014.5	8766.4	10761.3
42.5°	9820.3	9675.0	9364.6	9481.7	9624.2	9607.3	9662.3	9439.4	8804.5	9533.9	11459.6
45°	10631.5	10393.0	9857.0	9882.4	10194.1	10288.7	10700.6	10542.6	9660.9	10374.7	12181.9
47.5°	11001.1	10820.5	10364.8	10366.2	10675.2	10871.3	11774.2	11661.3	10560.9	11329.8	13063.6
50°	11414.4	11233.9	10824.7	10978.5	11248.0	11456.8	12811.1	12753.2	11417.3	12375.2	14120.3
52.5°	11865.9	11559.7	11300.2	11575.3	11953.3	12196.0	13849.4	13691.4	12203.1	13427.6	15334.9
55°	11871.5	11788.3	11985.8	12187.5	12753.2	13050.9	14937.1	14519.5	12843.5	14461.7	16323.9
57.5°	12547.3	12411.8	12830.8	12923.9	13663.2	13998.9	16019.2	15240.4	13495.3	15254.5	16857.1
60°	13441.7	13326.0	13668.8	13914.3	14789.0	15237.6	17174.6	15981.1	14007.4	15852.7	16831.7
62.5°	14986.5	14855.3	14851.0	15195.3	16373.3	16895.2	18471.0	16707.6	14210.6	15971.2	16113.7
65°	17247.9	17039.1	16645.5	16809.2	18561.3	19081.9	19919.9	17233.8	13942.5	15336.3	14264.2
67.5°	19448.7	19441.6	18957.8	19293.5	21450.6	21868.2	21570.5	17286.0	13105.9	13125.7	10982.7
70°	21642.4	21670.6	21588.8	22756.9	25354.1	25788.6	23328.3	16584.9	11225.4	9478.9	6579.8
72.5°	23380.5	23373.4	23785.4	26797.3	30420.2	30322.8	24809.6	14460.3	8059.7	5116.8	3144.6
75°	22254.7	22009.2	23236.6	28797.8	33372.9	32897.5	23549.8	10086.9	4182.9	2329.2	1692.9
77.5°	14515.3	14748.1	16549.6	23789.6	29191.4	28613.0	17277.5	4706.3	1970.8	1527.9	1227.4
80°	5256.5	5502.0	7749.3	13475.6	20111.8	20017.2	8508.3	1934.1	1333.2	1154.0	894.4
82.5°	1808.6	1898.9	3057.1	5984.4	11355.2	11778.4	3201.0	1099.0	969.2	818.2	612.3
85°	709.6	812.6	1398.1	2879.4	5727.7	5770.0	1296.5	657.4	674.3	536.1	335.8
87.5°	269.5	327.3	668.7	1337.4	2615.5	2402.5	464.1	313.2	383.7	318.8	159.4
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°	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7	6383.7
2.5°	6393.6	6423.2	6485.3	6527.6	6572.7	6585.4	6591.1	6602.3	6613.6	6609.4	6610.8
5°	6433.1	6490.9	6591.1	6633.4	6653.1	6630.6	6586.8	6551.6	6526.2	6512.1	6507.8
7.5°	6497.9	6579.8	6687.0	6679.9	6634.8	6534.6	6421.8	6337.1	6266.6	6241.2	6227.1
10°	6584.0	6679.9	6754.7	6674.3	6543.1	6369.6	6200.3	6069.1	5963.3	5922.4	5915.3
12.5°	6694.0	6791.4	6805.5	6634.8	6417.5	6180.5	5950.6	5777.1	5619.0	5568.3	5557.0
15°	6836.5	6928.2	6840.8	6565.7	6262.4	5943.5	5645.9	5410.3	5243.8	5181.7	5159.1
17.5°	6986.1	7073.5	6847.8	6451.4	6059.2	5662.8	5288.9	5047.7	4857.2	4785.3	4776.8
20°	7165.2	7204.7	6818.2	6287.7	5779.9	5298.8	4905.2	4678.1	4576.5	4525.7	4520.1
22.5°	7386.7	7344.4	6750.5	6066.3	5425.8	4878.4	4558.2	4452.4	4427.0	4415.7	4419.9
25°	7620.9	7491.1	6650.3	5777.1	4978.6	4458.0	4304.2	4333.8	4367.7	4363.5	4363.5
27.5°	7879.1	7640.7	6496.5	5393.3	4483.4	4113.8	4132.1	4240.7	4291.5	4290.1	4288.7
30°	8210.6	7810.0	6300.4	4932.0	4020.7	3871.1	3982.6	4115.2	4184.3	4181.5	4182.9
32.5°	8618.3	7996.2	6033.8	4417.1	3686.3	3692.0	3820.3	3951.5	4031.9	4024.9	4026.3
35°	9095.2	8205.0	5672.7	3909.2	3464.8	3549.5	3651.0	3742.7	3818.9	3809.0	3799.2
37.5°	9614.3	8409.5	5193.0	3454.9	3284.2	3416.9	3501.5	3517.0	3552.3	3526.9	3508.6
40°	10108.1	8566.1	4575.1	3082.5	3102.3	3304.0	3359.0	3296.9	3233.5	3225.0	3199.6
42.5°	10538.4	8618.3	3950.1	2784.8	2910.4	3185.5	3219.3	3089.6	2975.3	2921.7	2899.1
45°	10992.6	8636.7	3367.5	2535.1	2725.6	3079.7	3116.4	2942.8	2782.0	2666.3	2628.2
47.5°	11586.6	8769.3	2914.6	2350.3	2584.5	3009.1	3061.3	2825.7	2617.0	2451.9	2416.6
50°	12363.9	9031.7	2546.4	2209.2	2492.8	2962.6	3021.8	2711.5	2481.5	2282.6	2247.3
52.5°	13227.3	9272.9	2248.7	2095.0	2403.9	2880.8	2971.1	2629.7	2354.6	2126.0	2087.9
55°	13831.1	9088.1	2008.9	1976.5	2288.2	2763.7	2900.5	2560.5	2172.6	1973.6	1939.8
57.5°	13946.7	8456.1	1826.9	1853.7	2148.6	2617.0	2791.9	2406.8	2073.8	1907.3	1872.1
60°	13630.7	7575.8	1691.5	1740.9	1999.0	2432.1	2588.7	2298.1	1979.3	1836.8	1807.2
62.5°	12836.5	6674.3	1591.3	1639.3	1859.4	2244.5	2461.8	2183.9	1883.4	1756.4	1726.8
65°	11232.5	5603.5	1495.4	1549.0	1729.6	2082.3	2347.5	2078.0	1788.8	1691.5	1663.3
67.5°	8478.7	4197.0	1405.1	1453.1	1613.9	1941.2	2223.4	1973.6	1697.1	1635.1	1601.2
70°	4992.7	2628.2	1302.1	1352.9	1492.6	1794.5	2090.7	1859.4	1582.9	1554.7	1510.9
72.5°	2323.5	1581.5	1185.0	1234.4	1340.2	1598.4	1920.0	1709.8	1447.4	1385.4	1326.1
75°	1386.8	1156.8	1046.8	1090.5	1165.3	1389.6	1705.6	1557.5	1319.1	1237.2	1175.2
77.5°	1036.9	884.5	894.4	941.0	1001.6	1216.1	1510.9	1437.6	1220.3	1156.8	1114.5
80°	746.3	671.5	729.4	780.1	843.6	1106.0	1447.4	1328.9	1103.2	1018.6	979.1
82.5°	498.0	482.5	548.8	601.0	663.1	967.8	1360.0	1163.9	942.4	835.2	747.7
85°	275.1	290.6	369.6	392.2	445.8	681.4	1114.5	935.3	709.6	571.4	546.0
87.5°	114.3	134.0	198.9	191.9	237.0	406.3	733.6	564.3	451.4	337.2	262.4
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)