

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: P318872

Luminaire Tested: **GAN-SA8A-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318872
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-SA8A-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 29858 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

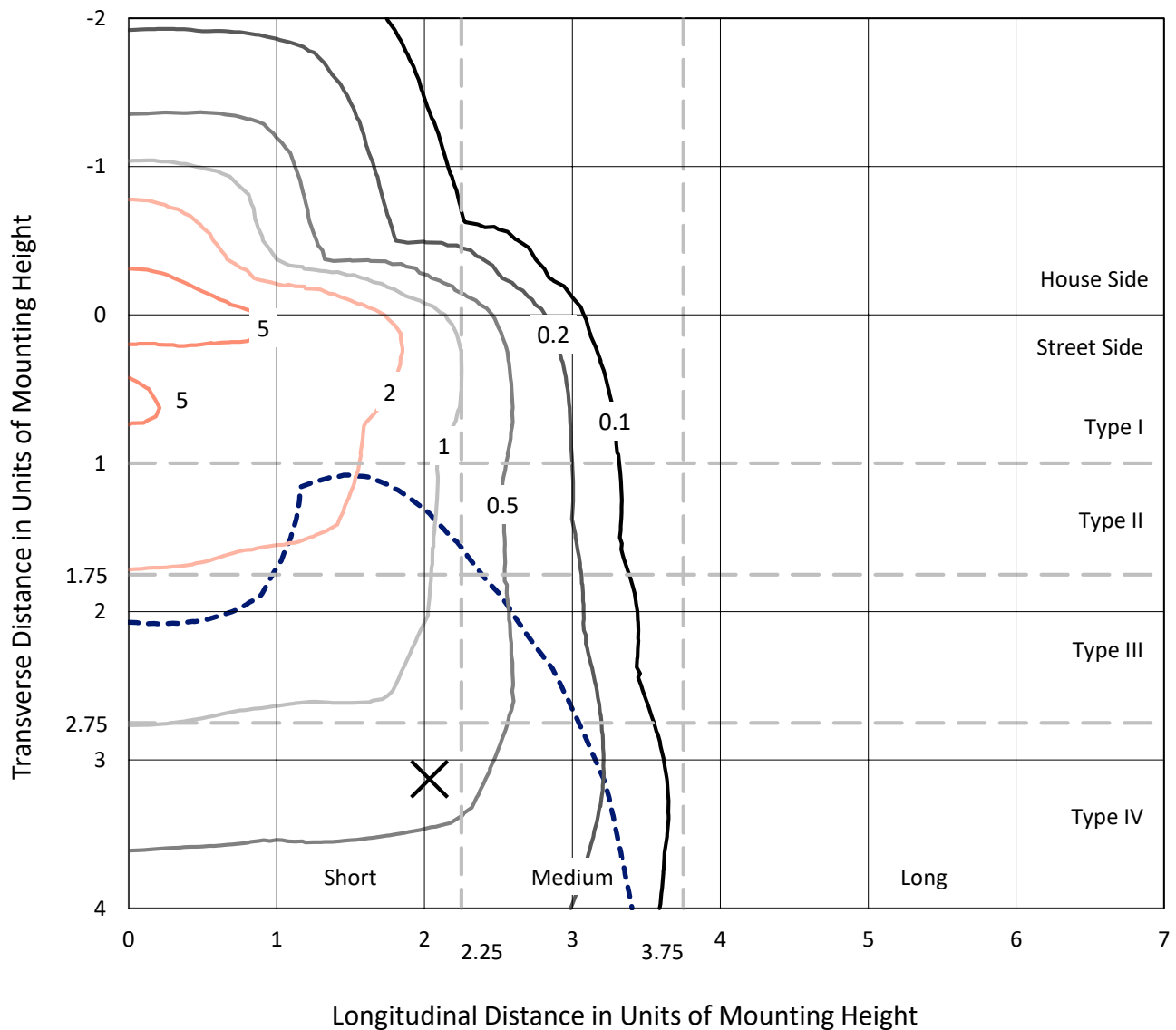
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

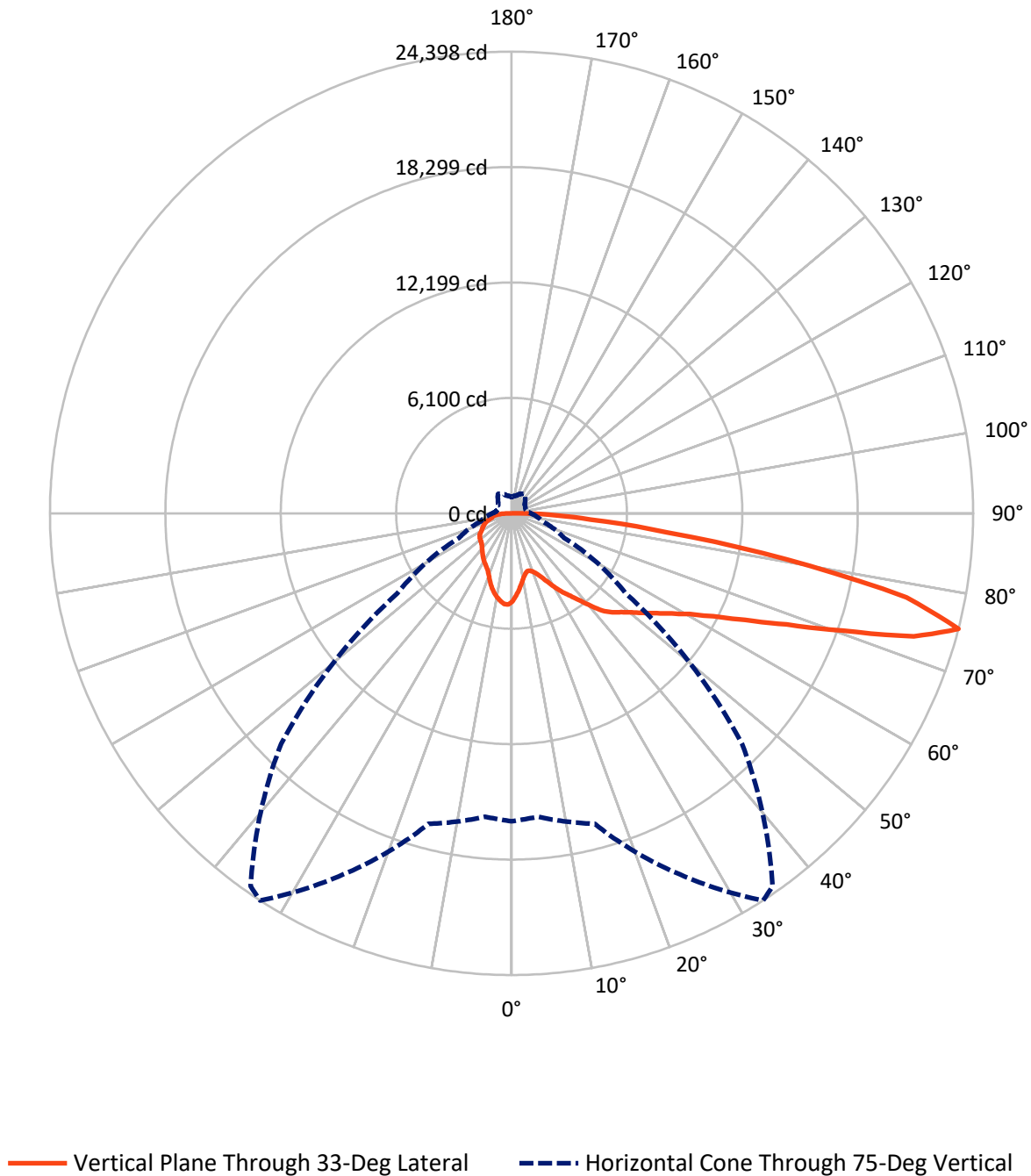
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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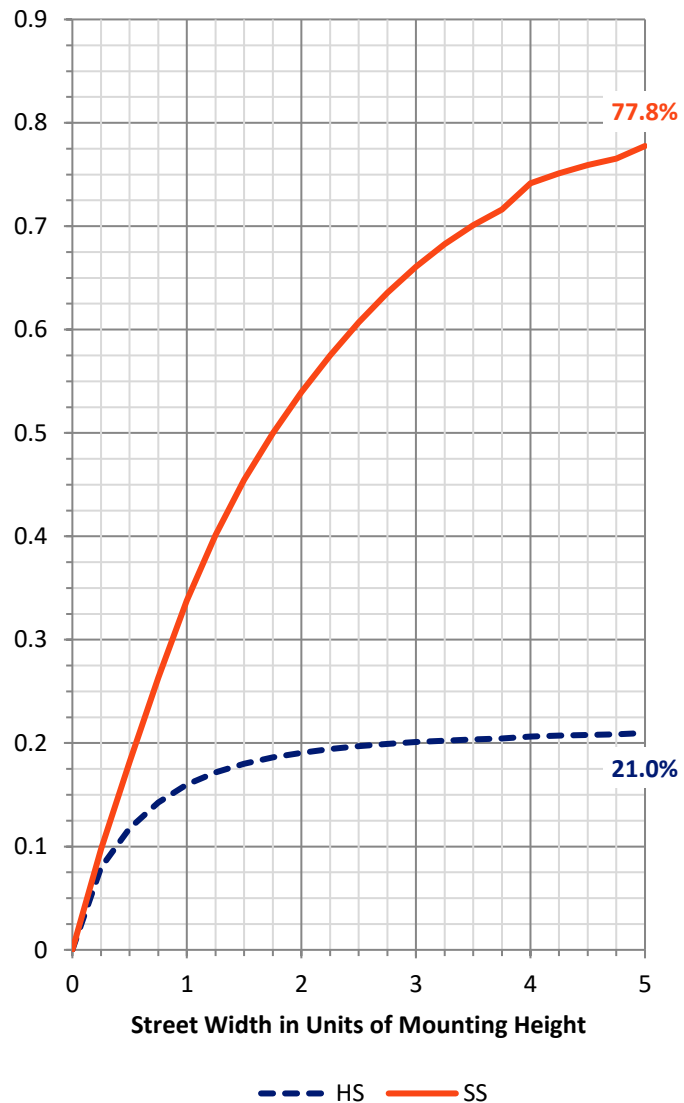
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6411.3	0.0	6411.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	23446.7	0.0	23446.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	29858.0	0.0	29858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.1	1.4
10°-20°	1143.1	3.8
20°-30°	1866.9	6.3
30°-40°	2780.3	9.3
40°-50°	3987.7	13.4
50°-60°	5474.5	18.3
60°-70°	6853.8	23.0
70°-80°	6200.3	20.8
80°-90°	1129.4	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°	29858.0	100.0
0°-180°	29858.0	100.0

Coefficient of Utilization



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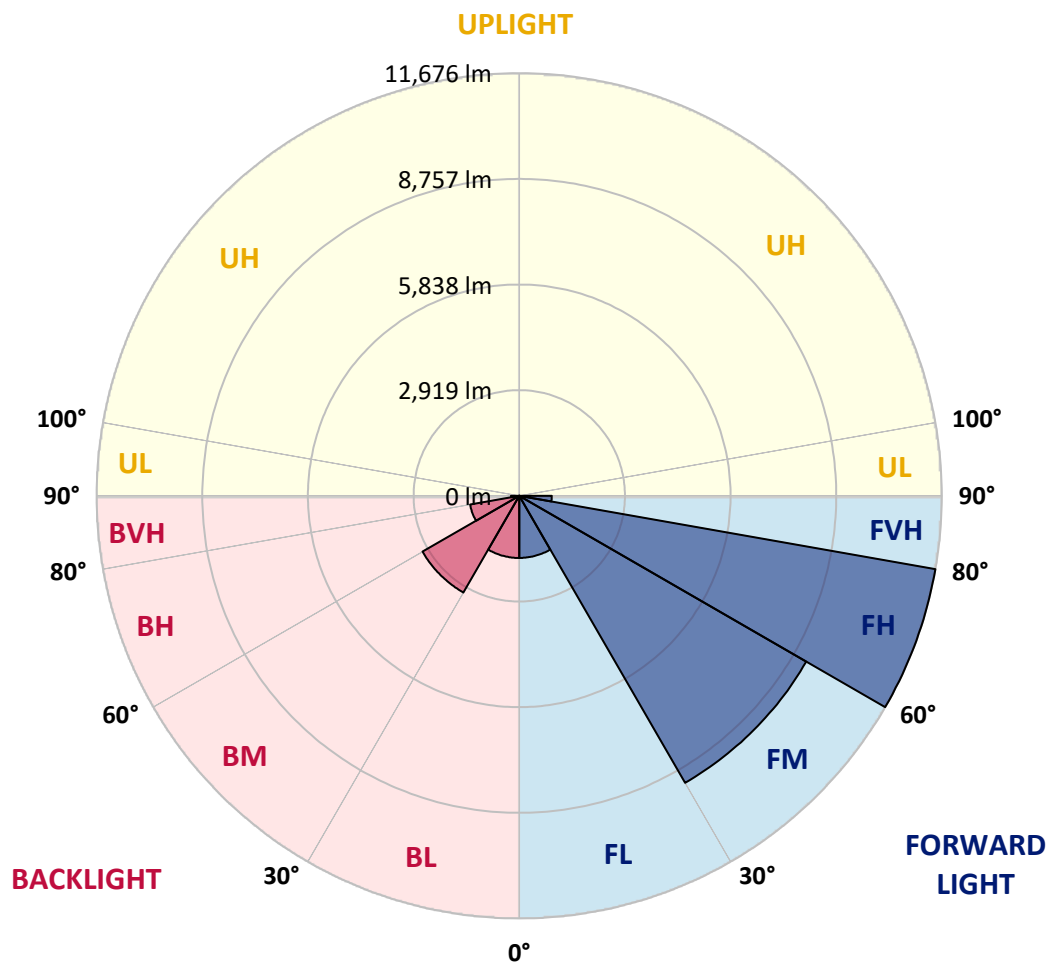
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1714.9	5.7			
FM	(30°-60°)	9156.8	30.7			
FH	(60°-80°)	11675.5	39.1			G4/12000
FVH	(80°-90°)	899.5	3.0			G5
BL	(0°-30°)	1717.2	5.8	B3/2500		
BM	(30°-60°)	3085.6	10.3	B3/5000		
BH	(60°-80°)	1378.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	229.9	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°	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0
2.5°	4333.8	4317.3	4348.3	4352.4	4379.2	4389.5	4426.7	4484.4	4531.9	4586.5	4636.0
5°	3940.9	3929.5	3972.9	4003.8	4062.6	4087.3	4175.0	4297.7	4407.1	4530.8	4643.3
7.5°	3567.5	3561.3	3609.8	3679.9	3748.0	3782.1	3933.7	4112.1	4294.6	4494.7	4667.0
10°	3253.0	3250.9	3297.3	3366.4	3466.5	3504.6	3700.6	3935.7	4191.5	4466.9	4707.2
12.5°	3076.6	3083.8	3105.5	3163.2	3256.1	3294.2	3511.8	3788.2	4104.9	4457.6	4766.0
15°	3119.9	3131.3	3094.1	3092.1	3158.1	3188.0	3392.2	3683.0	4043.0	4473.1	4851.6
17.5°	3304.5	3306.6	3208.6	3146.7	3186.9	3202.4	3355.1	3623.2	4006.9	4508.1	4958.9
20°	3564.4	3559.3	3386.0	3282.9	3304.5	3308.7	3407.7	3624.3	4003.8	4569.0	5098.1
22.5°	3908.9	3870.8	3637.7	3497.4	3492.2	3486.0	3542.8	3700.6	4049.2	4668.0	5264.1
25°	4358.6	4322.5	4001.7	3809.9	3768.6	3753.2	3761.4	3863.5	4138.9	4774.2	5449.8
27.5°	4858.8	4795.9	4486.5	4215.2	4129.6	4108.0	4058.5	4093.5	4236.9	4876.3	5670.5
30°	5277.5	5243.5	4973.3	4651.5	4550.4	4519.5	4389.5	4351.4	4378.2	5015.6	5949.0
32.5°	5511.7	5489.0	5325.0	5065.1	4971.2	4927.9	4744.3	4668.0	4605.1	5235.3	6326.5
35°	5795.3	5780.9	5681.8	5493.1	5353.9	5308.5	5166.2	5086.7	4924.8	5537.5	6814.3
37.5°	6156.3	6140.8	6142.9	5990.2	5824.2	5781.9	5688.0	5604.5	5339.4	5934.5	7344.4
40°	6564.7	6534.8	6523.4	6516.2	6411.0	6387.3	6337.8	6224.3	5859.2	6409.0	7867.3
42.5°	7179.4	7073.2	6846.3	6931.9	7036.0	7023.7	7063.9	6900.9	6436.8	6970.0	8377.9
45°	7772.4	7598.1	7206.2	7224.8	7452.7	7521.8	7823.0	7707.5	7062.9	7584.7	8905.9
47.5°	8042.7	7910.6	7577.5	7578.5	7804.4	7947.8	8607.9	8525.3	7720.9	8283.0	9550.5
50°	8344.9	8212.8	7913.7	8026.2	8223.2	8375.8	9365.9	9323.6	8346.9	9047.2	10323.0
52.5°	8674.9	8451.1	8261.3	8462.4	8738.8	8916.2	10125.0	10009.5	8921.4	9816.6	11211.0
55°	8679.0	8618.2	8762.6	8910.1	9323.6	9541.3	10920.2	10614.9	9389.6	10572.6	11934.0
57.5°	9173.1	9074.0	9380.4	9448.4	9988.9	10234.3	11711.3	11141.9	9866.1	11152.3	12323.9
60°	9826.9	9742.4	9993.0	10172.5	10811.9	11139.9	12556.0	11683.4	10240.5	11589.6	12305.3
62.5°	10956.3	10860.4	10857.3	11108.9	11970.1	12351.7	13503.8	12214.6	10389.0	11676.2	11780.4
65°	12609.6	12456.9	12169.2	12288.8	13569.8	13950.4	14563.0	12599.3	10193.1	11212.1	10428.2
67.5°	14218.5	14213.4	13859.6	14105.1	15682.1	15987.3	15769.7	12637.4	9581.5	9595.9	8029.3
70°	15822.3	15843.0	15783.1	16637.1	18535.9	18853.5	17054.8	12124.8	8206.7	6929.8	4810.3
72.5°	17093.0	17087.8	17389.0	19591.0	22239.5	22168.4	18137.8	10571.6	5892.2	3740.8	2298.9
75°	16269.9	16090.5	16987.8	21053.5	24398.2	24050.6	17216.7	7374.3	3058.0	1702.8	1237.7
77.5°	10611.8	10782.0	12099.1	17392.1	21341.2	20918.4	12631.3	3440.7	1440.8	1117.0	897.3
80°	3842.9	4022.4	5665.3	9851.7	14703.3	14634.2	6220.2	1414.0	974.6	843.7	653.9
82.5°	1322.2	1388.2	2235.0	4375.1	8301.5	8611.0	2340.2	803.4	708.6	598.2	447.6
85°	518.8	594.1	1022.1	2105.0	4187.4	4218.3	947.8	480.6	493.0	391.9	245.5
87.5°	197.0	239.3	488.9	977.7	1912.2	1756.4	339.3	229.0	280.5	233.1	116.5
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°	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0	4667.0
2.5°	4674.2	4695.9	4741.2	4772.2	4805.2	4814.5	4818.6	4826.8	4835.1	4832.0	4833.0
5°	4703.1	4745.4	4818.6	4849.5	4864.0	4847.5	4815.5	4789.7	4771.1	4760.8	4757.7
7.5°	4750.5	4810.3	4888.7	4883.6	4850.6	4777.3	4694.8	4632.9	4581.4	4562.8	4552.5
10°	4813.4	4883.6	4938.2	4879.4	4783.5	4656.7	4532.9	4437.0	4359.6	4329.7	4324.6
12.5°	4893.9	4965.0	4975.4	4850.6	4691.7	4518.5	4350.3	4223.5	4108.0	4070.8	4062.6
15°	4998.0	5065.1	5001.1	4800.0	4578.3	4345.2	4127.6	3955.3	3833.6	3788.2	3771.7
17.5°	5107.4	5171.3	5006.3	4716.5	4429.8	4139.9	3866.6	3690.3	3551.0	3498.4	3492.2
20°	5238.4	5267.2	4984.6	4596.8	4225.5	3873.8	3586.1	3420.0	3345.8	3308.7	3304.5
22.5°	5400.3	5369.3	4935.1	4434.9	3966.7	3566.5	3332.4	3255.0	3236.5	3228.2	3231.3
25°	5571.5	5476.6	4861.9	4223.5	3639.7	3259.1	3146.7	3168.4	3193.1	3190.0	3190.0
27.5°	5760.2	5585.9	4749.5	3942.9	3277.7	3007.5	3020.9	3100.3	3137.4	3136.4	3135.4
30°	6002.6	5709.7	4606.1	3605.7	2939.4	2830.1	2911.6	3008.5	3059.1	3057.0	3058.0
32.5°	6300.7	5845.8	4411.2	3229.2	2695.0	2699.1	2793.0	2888.9	2947.7	2942.5	2943.5
35°	6649.3	5998.5	4147.2	2857.9	2533.1	2594.9	2669.2	2736.2	2791.9	2784.7	2777.5
37.5°	7028.8	6148.0	3796.5	2525.8	2401.0	2498.0	2559.9	2571.2	2597.0	2578.4	2565.0
40°	7389.8	6262.5	3344.7	2253.6	2268.0	2415.5	2455.7	2410.3	2363.9	2357.7	2339.2
42.5°	7704.4	6300.7	2887.9	2035.9	2127.7	2328.8	2353.6	2258.7	2175.2	2136.0	2119.5
45°	8036.5	6314.1	2461.9	1853.4	1992.6	2251.5	2278.3	2151.4	2033.9	1949.3	1921.5
47.5°	8470.7	6411.0	2130.8	1718.3	1889.5	2199.9	2238.1	2065.8	1913.2	1792.5	1766.7
50°	9039.0	6602.9	1861.6	1615.1	1822.4	2165.9	2209.2	1982.3	1814.2	1668.8	1643.0
52.5°	9670.2	6779.2	1644.0	1531.6	1757.5	2106.1	2172.1	1922.5	1721.4	1554.3	1526.4
55°	10111.6	6644.1	1468.7	1445.0	1672.9	2020.5	2120.5	1871.9	1588.3	1442.9	1418.1
57.5°	10196.2	6182.1	1335.6	1355.2	1570.8	1913.2	2041.1	1759.5	1516.1	1394.4	1368.6
60°	9965.1	5538.5	1236.6	1272.7	1461.5	1778.1	1892.6	1680.1	1447.0	1342.9	1321.2
62.5°	9384.5	4879.4	1163.4	1198.5	1359.4	1640.9	1799.7	1596.6	1376.9	1284.1	1262.4
65°	8211.8	4096.6	1093.3	1132.4	1264.5	1522.3	1716.2	1519.2	1307.8	1236.6	1216.0
67.5°	6198.6	3068.3	1027.2	1062.3	1179.9	1419.2	1625.4	1442.9	1240.7	1195.4	1170.6
70°	3650.0	1921.5	952.0	989.1	1091.2	1311.9	1528.5	1359.4	1157.2	1136.6	1104.6
72.5°	1698.7	1156.2	866.4	902.5	979.8	1168.5	1403.7	1250.0	1058.2	1012.8	969.5
75°	1013.8	845.7	765.3	797.3	851.9	1015.9	1246.9	1138.6	964.3	904.5	859.1
77.5°	758.1	646.7	653.9	687.9	732.3	889.0	1104.6	1051.0	892.1	845.7	814.8
80°	545.6	490.9	533.2	570.4	616.8	808.6	1058.2	971.6	806.5	744.7	715.8
82.5°	364.1	352.7	401.2	439.4	484.7	707.5	994.2	850.9	689.0	610.6	546.6
85°	201.1	212.5	270.2	286.7	325.9	498.2	814.8	683.8	518.8	417.7	399.1
87.5°	83.5	98.0	145.4	140.3	173.3	297.0	536.3	412.6	330.0	246.5	191.8
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)