

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: P319112

Luminaire Tested: **GAN-SA8A-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37088 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

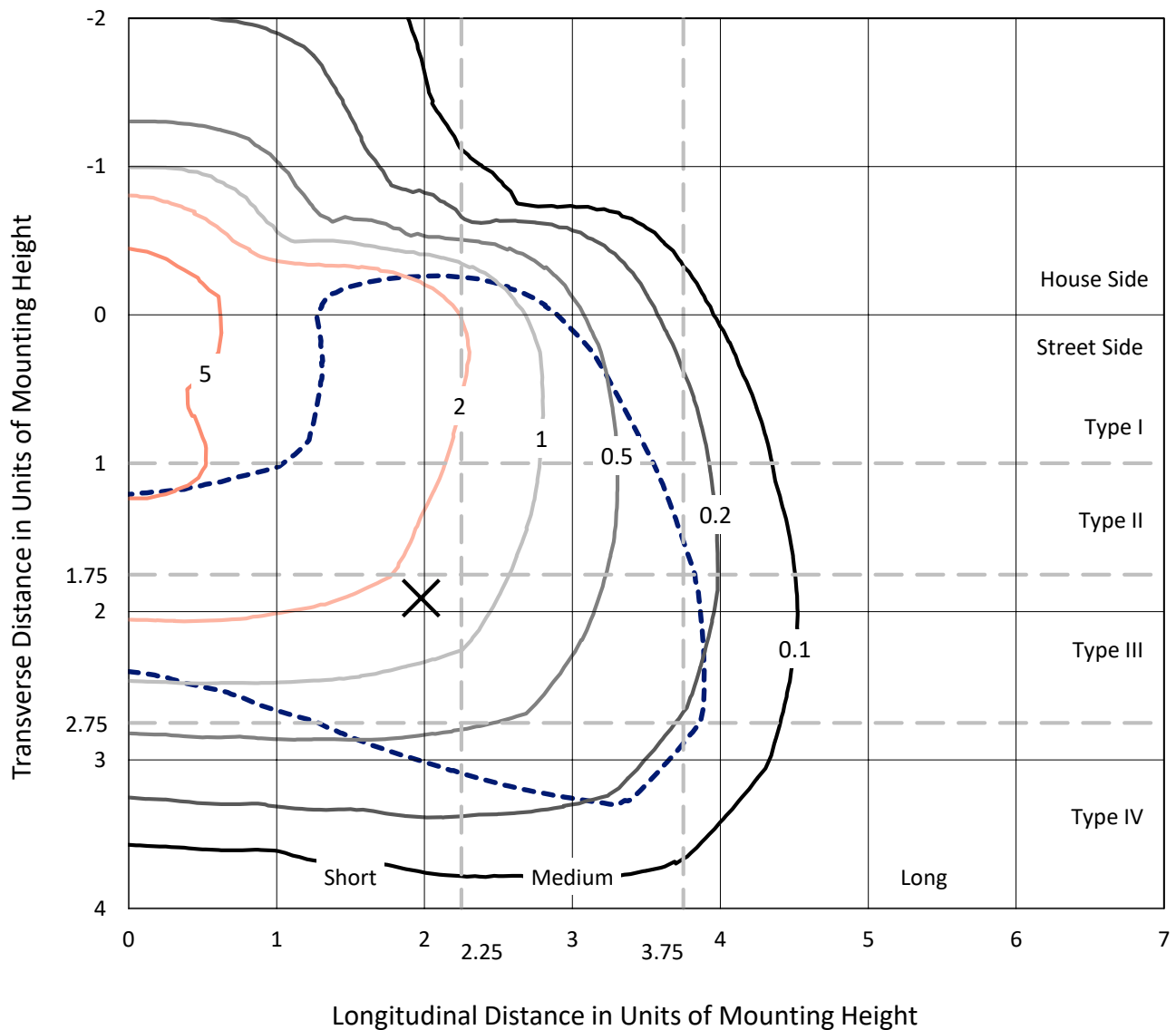
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

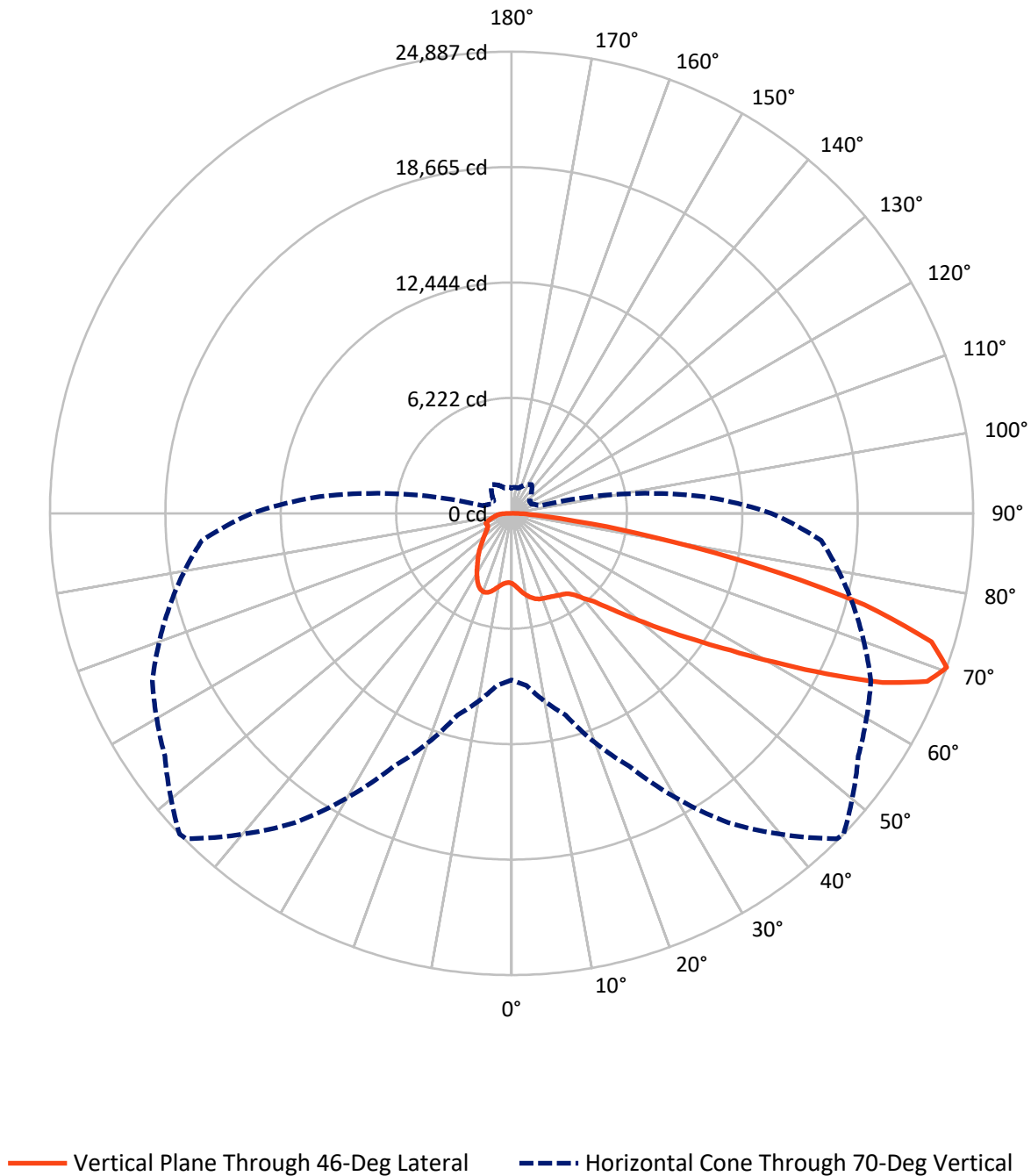
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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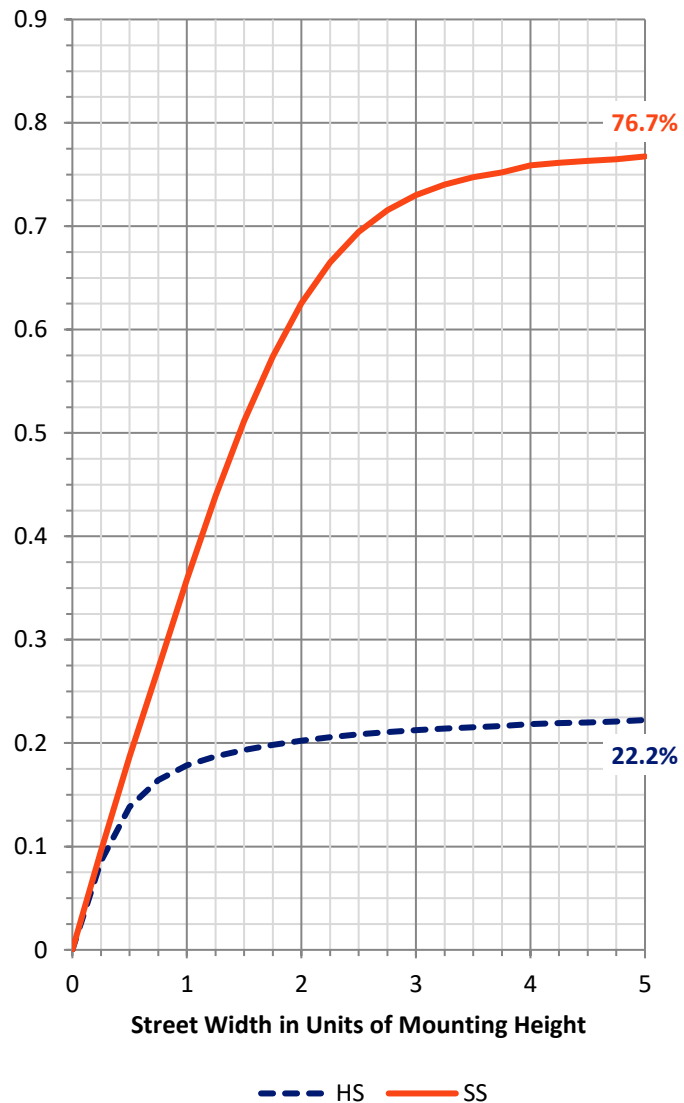
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8500.5	0.0	8500.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28587.5	0.0	28587.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	37088.0	0.0	37088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.2	1.0
10°-20°	1283.4	3.5
20°-30°	2139.8	5.8
30°-40°	3036.6	8.2
40°-50°	4466.6	12.0
50°-60°	7564.2	20.4
60°-70°	10737.3	29.0
70°-80°	6523.0	17.6
80°-90°	951.9	2.6
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°	37088.0	100.0
0°-180°	37088.0	100.0

Coefficient of Utilization



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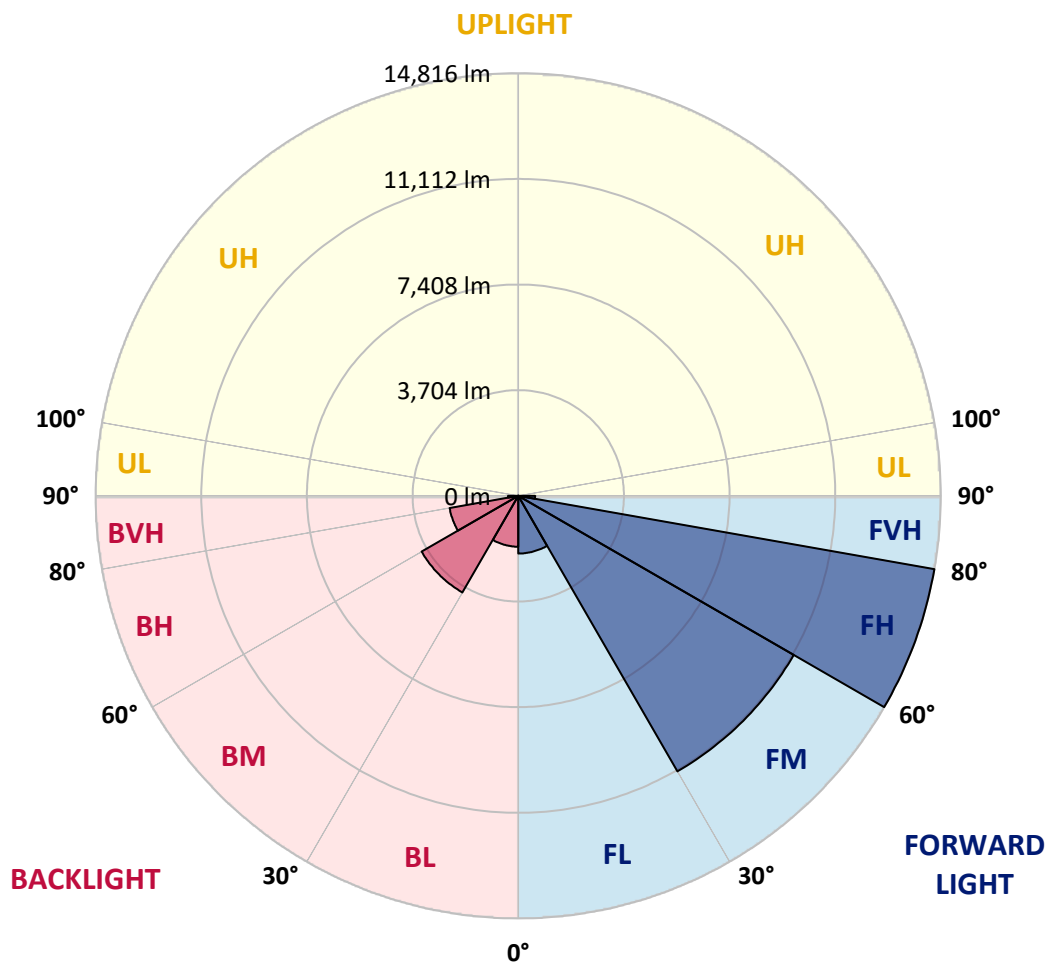
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2023.7	5.5			
FM	(30°-60°)	11154.4	30.1			
FH	(60°-80°)	14816.5	39.9			G5
FVH	(80°-90°)	593.0	1.6			G4/750
BL	(0°-30°)	1784.7	4.8	B3/2500		
BM	(30°-60°)	3913.0	10.6	B3/5000		
BH	(60°-80°)	2443.8	6.6	B3/2500		G3/2500
BVH	(80°-90°)	359.0	1.0			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°	35°	45°	46°	55°	65°	75°	85°
0°	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5
2.5°	3967.7	3970.2	3975.3	3962.6	3927.0	3916.9	3913.1	3876.3	3852.2	3816.6	3786.2
5°	4285.0	4287.5	4279.9	4244.4	4165.7	4107.3	4102.2	4018.4	3942.3	3861.0	3800.1
7.5°	4616.2	4620.1	4595.9	4528.7	4418.2	4316.7	4310.4	4196.1	4080.6	3957.5	3866.1
10°	4909.4	4894.2	4854.9	4760.9	4630.2	4505.8	4500.7	4381.4	4248.2	4099.7	3977.8
12.5°	5104.9	5092.2	5041.4	4927.2	4783.8	4669.6	4659.4	4549.0	4419.5	4257.0	4111.1
15°	5212.8	5221.7	5153.1	5023.7	4884.1	4787.6	4778.7	4700.0	4584.5	4420.8	4253.2
17.5°	5226.7	5234.4	5168.4	5040.2	4925.9	4859.9	4856.1	4804.1	4720.3	4562.9	4387.8
20°	5145.5	5150.6	5096.0	4990.7	4915.8	4895.5	4894.2	4871.4	4809.2	4669.6	4499.5
22.5°	5027.5	5031.3	4991.9	4915.8	4890.4	4922.1	4931.0	4922.1	4877.7	4747.0	4587.1
25°	4998.3	4995.7	4955.1	4877.7	4899.3	4966.6	4978.0	4981.8	4951.3	4837.1	4698.7
27.5°	5139.2	5130.3	5052.9	4928.5	4942.4	5023.7	5038.9	5075.7	5056.7	4956.4	4825.7
30°	5546.6	5531.4	5372.7	5121.4	5052.9	5094.7	5113.8	5172.2	5176.0	5092.2	4994.5
32.5°	6234.5	6215.5	5931.2	5481.9	5239.4	5167.1	5184.9	5272.4	5319.4	5254.7	5149.3
35°	7104.0	7082.4	6709.2	6094.9	5551.7	5305.4	5318.1	5387.9	5481.9	5390.5	5250.9
37.5°	8010.2	7958.2	7599.0	6815.8	6048.0	5601.2	5601.2	5610.1	5654.5	5464.1	5370.2
40°	8911.4	8859.3	8534.4	7663.7	6690.2	6067.0	6037.8	5841.1	5805.5	5641.8	5610.1
42.5°	9749.1	9733.8	9542.2	8622.0	7444.1	6525.2	6484.6	6150.8	6158.4	6056.8	6058.1
45°	10640.1	10640.1	10484.0	9589.1	8322.4	7261.3	7220.7	6729.5	6805.7	6758.7	6871.7
47.5°	11367.4	11390.2	11368.6	10596.9	9344.2	8196.8	8123.2	7531.7	7744.9	7906.1	8234.9
50°	12109.9	12145.4	12149.2	11702.4	10579.2	9308.6	9224.9	8596.6	9072.6	9534.6	10180.6
52.5°	13187.5	13267.4	12948.8	12805.4	12092.1	10628.7	10546.2	9966.1	10760.7	11409.2	12522.4
55°	14186.3	14116.5	13889.3	13978.2	13711.6	12131.4	12069.2	11560.3	12641.7	13484.5	14930.1
57.5°	14727.0	14722.0	14950.4	15331.2	15458.1	13984.5	13932.5	13437.5	14762.6	15395.9	17190.6
60°	15361.7	15370.6	15936.6	16801.0	17323.9	16292.0	16269.2	15893.5	16822.6	17180.5	18963.8
62.5°	15450.5	15610.4	16585.2	18072.8	19070.4	18987.9	19038.7	18105.8	18665.5	18604.6	20287.6
65°	14428.8	14639.5	16403.7	18457.4	20806.7	21936.4	21983.3	20330.8	20118.8	19821.8	20761.0
67.5°	12334.5	12646.8	14563.3	17620.9	21379.2	24115.6	24181.6	22055.7	21324.6	20234.3	19621.3
70°	8976.1	9322.6	11251.9	15049.4	20358.7	24812.5	24887.3	22818.5	21370.3	19060.2	16750.2
72.5°	5422.2	5693.8	7284.2	11079.2	17183.0	23543.2	23676.5	21851.3	19510.8	16144.8	12368.8
75°	2381.1	2558.8	3522.2	6384.3	12301.5	19479.1	19645.4	18703.6	15852.9	11732.9	7310.8
77.5°	1014.1	1064.9	1444.4	2773.3	6954.2	13310.6	13539.0	13666.0	10755.6	6384.3	3089.3
80°	632.1	652.4	817.4	1255.3	3254.3	7475.9	7722.1	8040.7	5341.0	2346.8	1078.9
82.5°	384.6	407.4	543.2	759.0	1694.4	3388.9	3506.9	3731.6	2072.7	1014.1	558.5
85°	231.0	247.5	332.5	479.8	964.6	1332.7	1331.4	1472.3	976.0	652.4	294.5
87.5°	110.4	123.1	177.7	248.8	486.1	500.1	468.4	530.5	592.7	427.7	148.5
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°	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5	3778.5
2.5°	3776.0	3770.9	3754.4	3741.7	3739.2	3731.6	3725.2	3729.0	3734.1	3735.4	3735.4
5°	3774.7	3760.8	3739.2	3730.3	3741.7	3757.0	3776.0	3801.4	3816.6	3828.0	3835.7
7.5°	3835.7	3809.0	3784.9	3779.8	3802.7	3843.3	3886.4	3939.7	3976.5	4001.9	4007.0
10°	3937.2	3904.2	3880.1	3885.2	3925.8	3984.2	4045.1	4113.6	4169.5	4203.7	4206.3
12.5°	4054.0	4022.2	3999.4	4021.0	4088.2	4159.3	4222.8	4282.4	4333.2	4367.5	4367.5
15°	4188.5	4165.7	4139.0	4188.5	4279.9	4343.4	4370.0	4399.2	4427.1	4452.5	4447.4
17.5°	4318.0	4296.4	4282.4	4340.8	4436.0	4465.2	4447.4	4425.9	4425.9	4439.8	4442.4
20°	4429.7	4410.6	4419.5	4476.6	4526.1	4495.7	4429.7	4361.1	4333.2	4340.8	4348.4
22.5°	4527.4	4518.5	4545.2	4571.8	4536.3	4429.7	4307.8	4215.2	4180.9	4178.4	4180.9
25°	4641.6	4640.4	4673.4	4625.1	4467.7	4271.0	4107.3	4017.2	3998.1	4013.4	4038.7
27.5°	4783.8	4797.7	4814.2	4637.8	4328.1	4031.1	3864.8	3802.7	3821.7	3858.5	3882.6
30°	4965.3	5003.4	4967.8	4606.1	4127.6	3757.0	3598.3	3580.5	3632.6	3684.6	3710.0
32.5°	5141.7	5201.4	5115.1	4523.6	3868.7	3466.3	3343.2	3338.1	3401.6	3452.3	3487.9
35°	5283.9	5401.9	5225.5	4359.9	3569.1	3198.5	3108.4	3074.1	3097.0	3156.6	3197.2
37.5°	5469.2	5665.9	5301.6	4109.8	3244.2	2977.6	2872.3	2793.6	2773.3	2797.4	2817.7
40°	5808.1	6068.3	5337.2	3760.8	2926.9	2756.8	2650.2	2534.7	2454.7	2396.3	2397.6
42.5°	6361.5	6592.5	5314.3	3336.8	2633.7	2541.0	2420.4	2287.2	2157.7	2025.7	2015.6
45°	7260.1	7371.8	5245.8	2887.5	2376.0	2315.1	2202.1	2068.9	1896.3	1746.5	1732.5
47.5°	8698.1	8450.6	5139.2	2495.3	2148.8	2123.4	2019.4	1865.8	1683.0	1562.4	1552.3
50°	10659.1	10008.0	5087.1	2183.1	1948.3	1955.9	1870.9	1708.4	1535.8	1446.9	1436.8
52.5°	13004.7	11821.7	5187.4	1941.9	1787.1	1813.8	1750.3	1598.0	1453.3	1383.5	1373.3
55°	15437.8	13700.2	5295.3	1766.8	1634.8	1686.8	1665.2	1539.6	1408.9	1344.1	1335.2
57.5°	17520.7	15102.7	5079.5	1624.6	1499.0	1580.2	1599.2	1502.8	1386.0	1327.6	1317.5
60°	18831.8	15667.6	4513.4	1491.4	1391.1	1495.2	1561.2	1492.6	1394.9	1389.8	1382.2
62.5°	19453.7	15618.1	3664.3	1386.0	1323.8	1458.4	1589.1	1549.7	1496.4	1542.1	1545.9
65°	19174.5	14871.7	2728.9	1316.2	1275.6	1472.3	1672.9	1657.6	1525.6	1571.3	1577.7
67.5°	17336.6	13091.0	2020.6	1255.3	1222.3	1511.7	1825.2	1693.2	1468.5	1501.5	1481.2
70°	14012.5	10378.6	1558.6	1186.7	1167.7	1506.6	1893.7	1671.6	1406.3	1413.9	1359.4
72.5°	9662.8	7077.3	1268.0	1123.3	1089.0	1373.3	1845.5	1618.3	1354.3	1295.9	1223.6
75°	5254.7	3798.8	1077.6	1057.3	950.7	1205.8	1756.6	1580.2	1307.3	1229.9	1189.3
77.5°	2067.6	1576.4	935.4	967.2	831.4	1064.9	1657.6	1507.9	1242.6	1141.1	1120.7
80°	844.0	804.7	775.5	836.4	714.6	931.6	1538.3	1422.8	1165.2	1058.6	1017.9
82.5°	478.5	500.1	602.9	660.0	580.0	858.0	1481.2	1354.3	1072.5	948.1	899.9
85°	245.0	293.2	420.1	473.4	426.5	729.8	1364.4	1185.5	860.5	726.0	729.8
87.5°	118.0	163.7	265.3	297.0	276.7	528.0	1019.2	859.3	670.2	530.5	514.0
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)