

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: P318809

Luminaire Tested: **GAN-SA5C-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318809
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-SA5C-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5700K, 1050mA 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: 35563 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

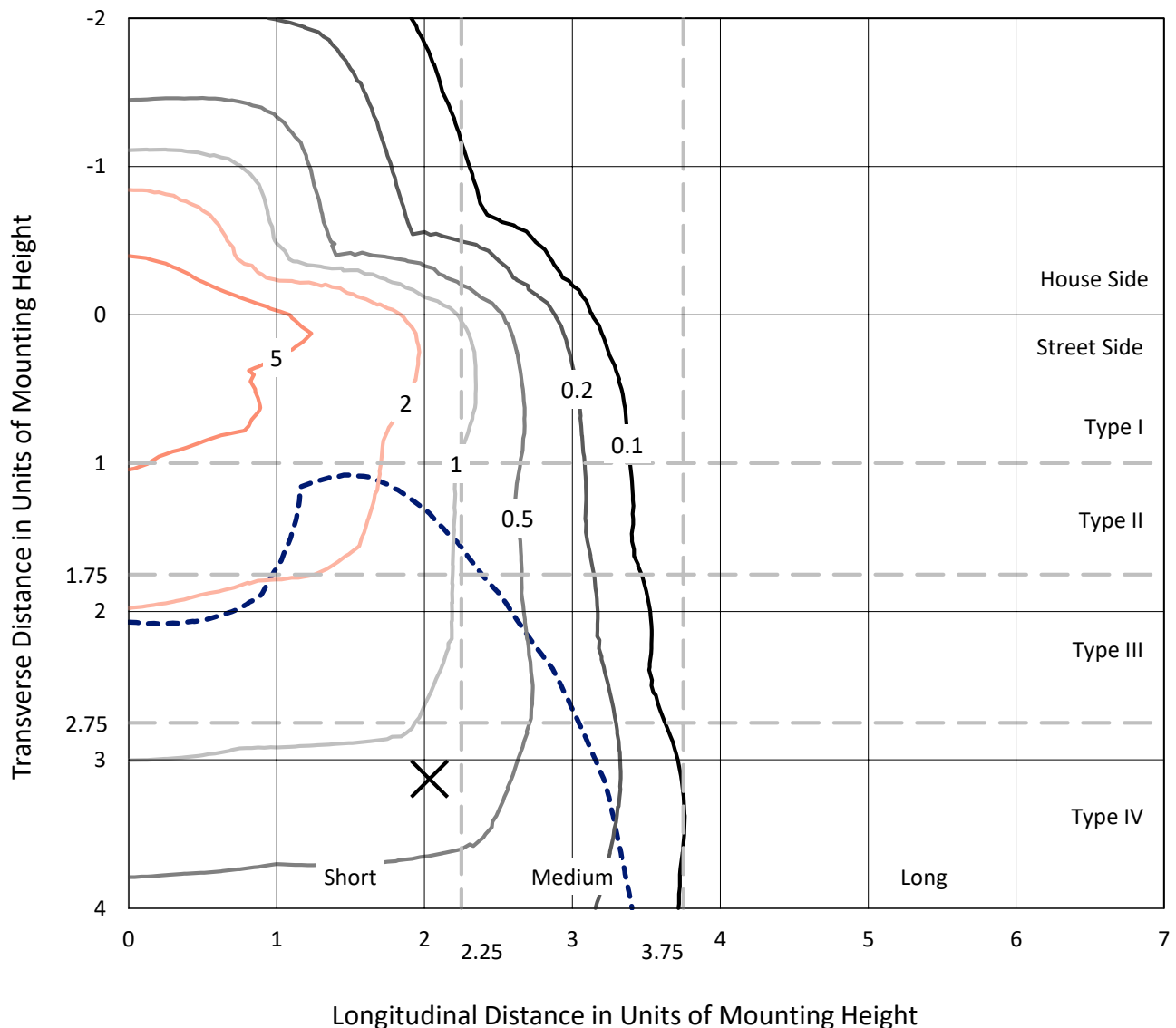
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

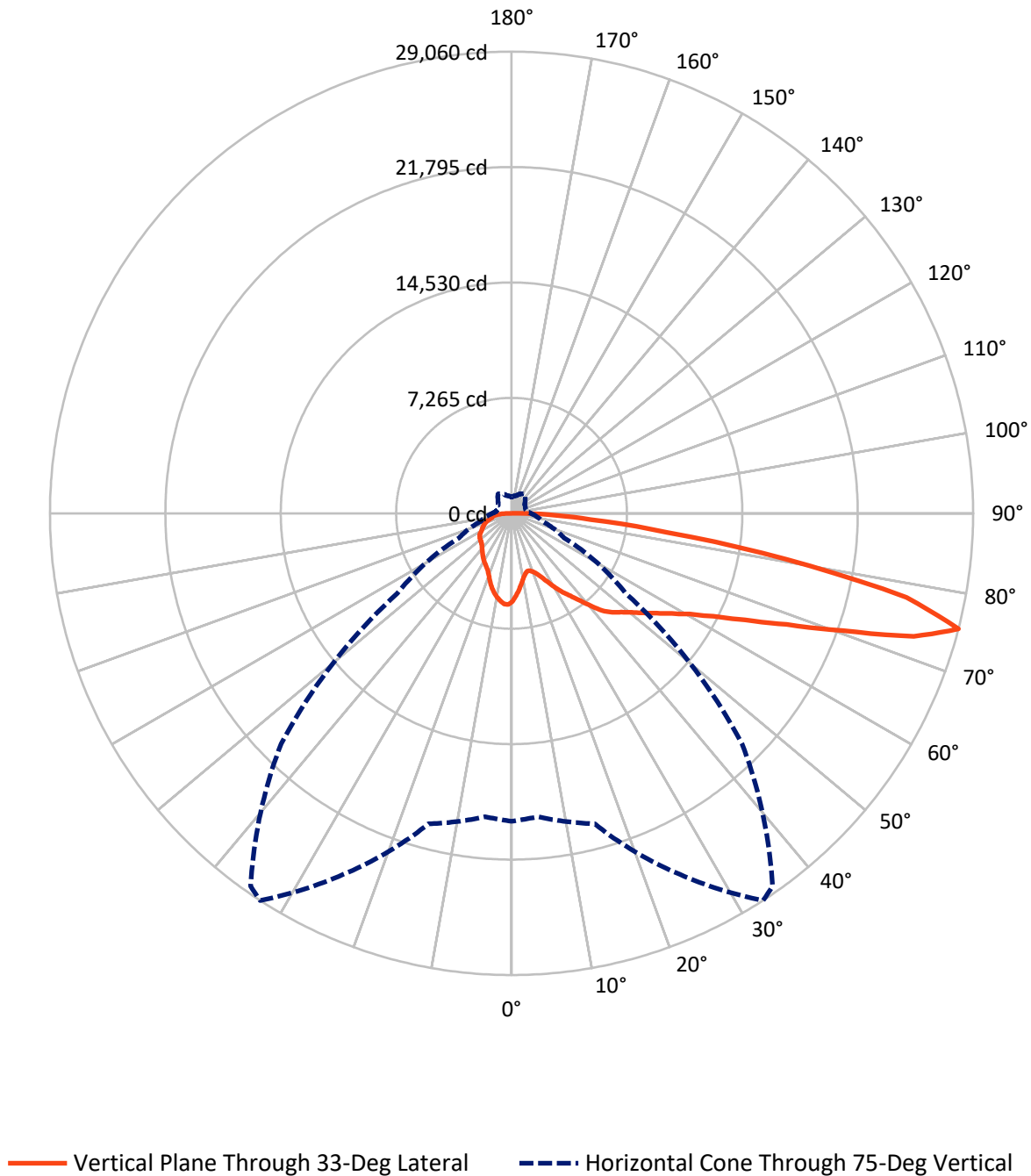
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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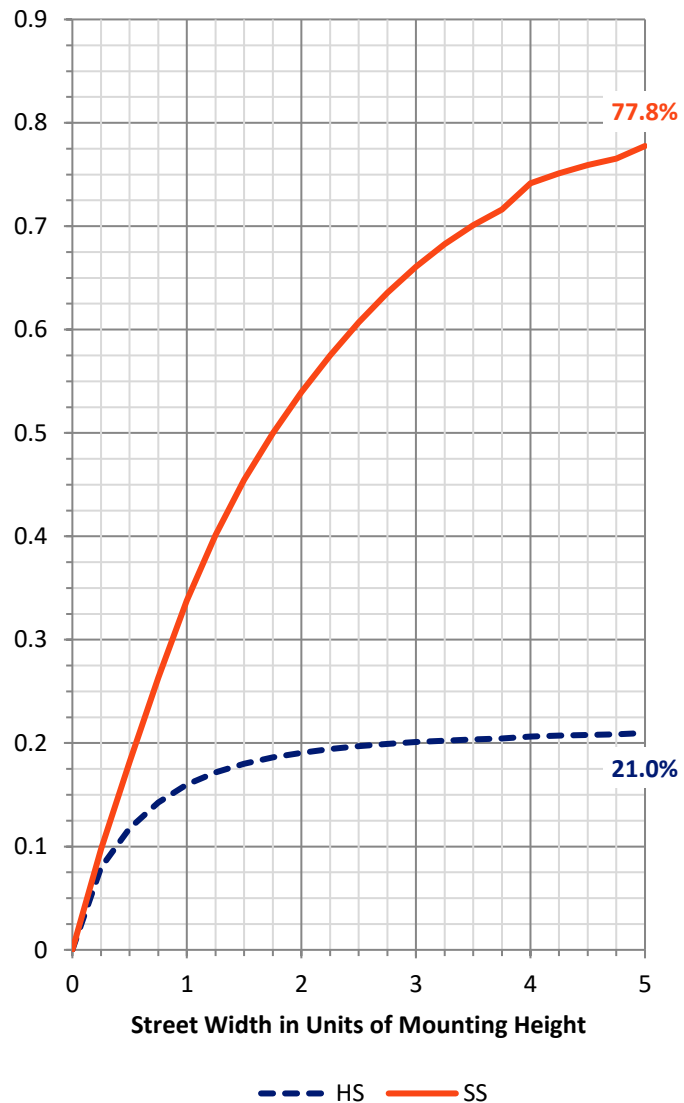
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7636.3	0.0	7636.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	27926.7	0.0	27926.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	35563.0	0.0	35563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.7	1.4
10°-20°	1361.6	3.8
20°-30°	2223.6	6.3
30°-40°	3311.5	9.3
40°-50°	4749.6	13.4
50°-60°	6520.5	18.3
60°-70°	8163.3	23.0
70°-80°	7385.0	20.8
80°-90°	1345.2	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°	35563.0	100.0
0°-180°	35563.0	100.0

Coefficient of Utilization



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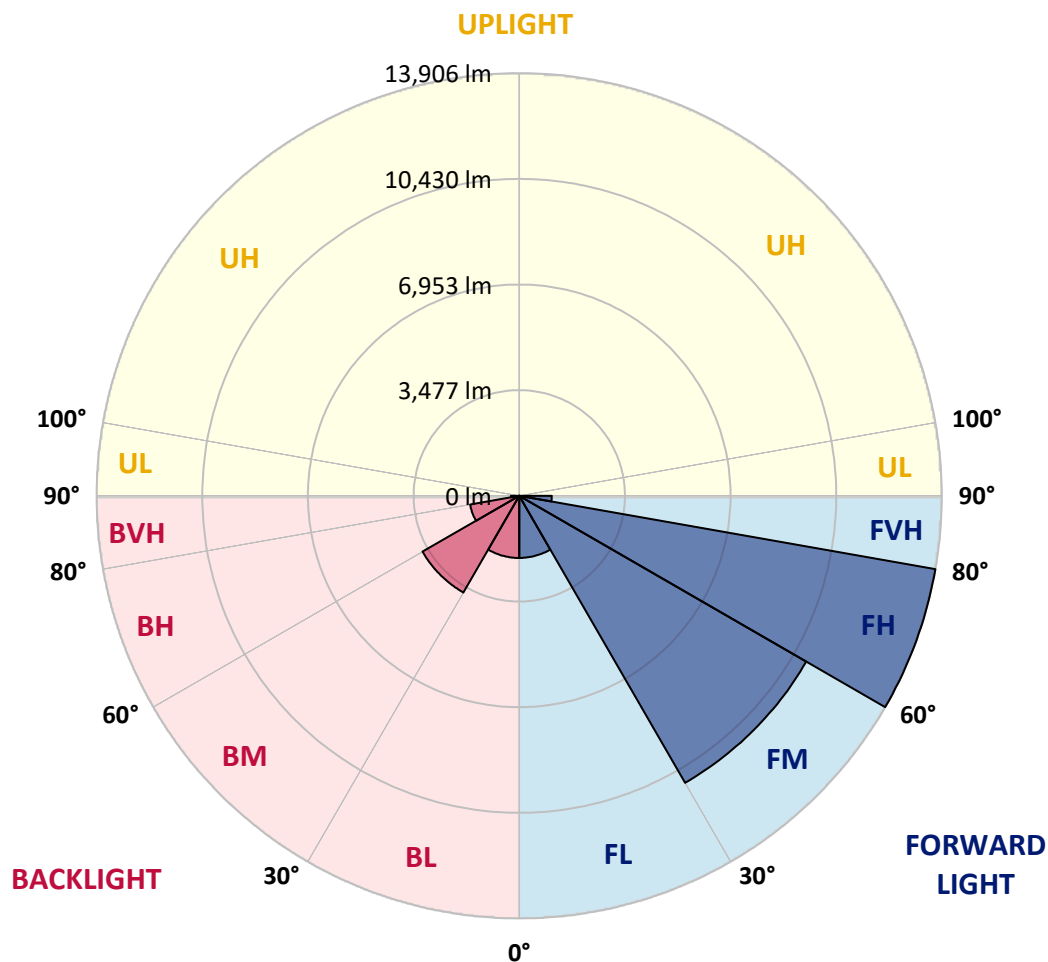
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2042.5	5.7			
FM	(30°-60°)	10906.4	30.7			
FH	(60°-80°)	13906.4	39.1			G5
FVH	(80°-90°)	1071.3	3.0			G5
BL	(0°-30°)	2045.4	5.8	B3/2500		
BM	(30°-60°)	3675.1	10.3	B3/5000		
BH	(60°-80°)	1641.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	273.9	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°	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7
2.5°	5161.9	5142.3	5179.1	5184.0	5216.0	5228.2	5272.5	5341.3	5397.8	5462.9	5521.8
5°	4693.9	4680.4	4732.0	4768.8	4838.8	4868.3	4972.7	5118.9	5249.1	5396.5	5530.4
7.5°	4249.2	4241.8	4299.5	4383.1	4464.2	4504.7	4685.3	4897.8	5115.2	5353.5	5558.7
10°	3874.5	3872.0	3927.3	4009.6	4128.8	4174.2	4407.6	4687.7	4992.4	5320.4	5606.6
12.5°	3664.4	3673.0	3698.8	3767.6	3878.2	3923.6	4182.8	4512.1	4889.2	5309.3	5676.6
15°	3716.0	3729.5	3685.3	3682.9	3761.5	3797.1	4040.3	4386.8	4815.5	5327.7	5778.6
17.5°	3935.9	3938.4	3821.7	3748.0	3795.9	3814.3	3996.1	4315.5	4772.5	5369.5	5906.3
20°	4245.5	4239.4	4033.0	3910.1	3935.9	3940.8	4058.8	4316.7	4768.8	5442.0	6072.2
22.5°	4655.8	4610.3	4332.7	4165.6	4159.5	4152.1	4219.7	4407.6	4822.9	5559.9	6270.0
25°	5191.4	5148.4	4766.4	4537.9	4488.7	4470.3	4480.1	4601.7	4929.7	5686.5	6491.1
27.5°	5787.2	5712.3	5343.7	5020.6	4918.7	4892.9	4833.9	4875.7	5046.4	5808.1	6754.0
30°	6285.9	6245.4	5923.5	5540.3	5419.9	5383.0	5228.2	5182.8	5214.7	5973.9	7085.6
32.5°	6564.8	6537.8	6342.4	6032.9	5921.1	5869.5	5650.8	5559.9	5485.0	6235.6	7535.3
35°	6902.6	6885.4	6767.5	6542.7	6376.8	6322.8	6153.3	6058.7	5865.8	6595.5	8116.3
37.5°	7332.6	7314.1	7316.6	7134.8	6937.0	6886.6	6774.9	6675.3	6359.6	7068.5	8747.7
40°	7819.0	7783.4	7769.9	7761.3	7636.0	7607.7	7548.8	7413.6	6978.8	7633.5	9370.5
42.5°	8551.2	8424.6	8154.4	8256.4	8380.4	8365.7	8413.6	8219.5	7666.7	8301.8	9978.6
45°	9257.5	9049.9	8583.1	8605.2	8876.7	8959.0	9317.7	9180.1	8412.4	9034.0	10607.6
47.5°	9579.4	9422.1	9025.4	9026.6	9295.6	9466.4	10252.6	10154.3	9196.1	9865.6	11375.4
50°	9939.3	9782.1	9425.8	9559.7	9794.4	9976.2	11155.5	11105.1	9941.8	10775.9	12295.5
52.5°	10332.4	10065.8	9839.8	10079.4	10408.6	10619.9	12059.6	11922.0	10626.0	11692.3	13353.2
55°	10337.3	10264.9	10436.8	10612.5	11105.1	11364.3	13006.7	12643.1	11183.7	12592.8	14214.3
57.5°	10925.8	10807.8	11172.7	11253.7	11897.5	12189.8	13948.9	13270.8	11751.3	13283.1	14678.6
60°	11704.6	11603.9	11902.4	12116.1	12877.7	13268.4	14955.0	13915.8	12197.2	13804.0	14656.5
62.5°	13049.7	12935.5	12931.8	13231.5	14257.3	14711.8	16084.0	14548.4	12374.1	13907.2	14031.3
65°	15018.9	14837.1	14494.4	14636.9	16162.6	16615.9	17345.6	15006.6	12140.7	13354.4	12420.8
67.5°	16935.3	16929.1	16507.8	16800.2	18678.4	19042.1	18782.9	15052.1	11412.2	11429.4	9563.4
70°	18845.5	18870.1	18798.8	19816.0	22077.5	22455.9	20313.5	14441.6	9774.7	8253.9	5729.4
72.5°	20359.0	20352.8	20711.5	23334.2	26488.9	26404.1	21603.4	12591.5	7018.1	4455.6	2738.2
75°	19378.7	19164.9	20233.7	25076.2	29060.0	28646.0	20506.4	8783.4	3642.3	2028.2	1474.1
77.5°	12639.4	12842.1	14410.8	20715.2	25418.9	24915.2	15044.7	4098.1	1716.1	1330.4	1068.7
80°	4577.2	4790.9	6747.8	11734.1	17512.7	17430.4	7408.7	1684.2	1160.9	1004.9	778.8
82.5°	1574.9	1653.5	2662.0	5211.0	9887.7	10256.3	2787.3	957.0	843.9	712.5	533.1
85°	617.9	707.6	1217.4	2507.2	4987.5	5024.3	1128.9	572.5	587.2	466.8	292.4
87.5°	234.6	285.0	582.3	1164.6	2277.5	2092.0	404.2	272.7	334.1	277.6	138.8
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°	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7	5558.7
2.5°	5567.3	5593.1	5647.1	5684.0	5723.3	5734.4	5739.3	5749.1	5758.9	5755.2	5756.5
5°	5601.7	5652.1	5739.3	5776.1	5793.3	5773.7	5735.6	5704.9	5682.8	5670.5	5666.8
7.5°	5658.2	5729.4	5822.8	5816.7	5777.4	5690.1	5591.9	5518.2	5456.7	5434.6	5422.3
10°	5733.1	5816.7	5881.8	5811.8	5697.5	5546.4	5399.0	5284.8	5192.6	5157.0	5150.9
12.5°	5829.0	5913.7	5926.0	5777.4	5588.2	5381.8	5181.6	5030.5	4892.9	4848.7	4838.8
15°	5953.0	6032.9	5956.7	5717.2	5453.1	5175.4	4916.2	4711.1	4566.1	4512.1	4492.4
17.5°	6083.2	6159.4	5962.9	5617.7	5276.2	4931.0	4605.4	4395.4	4229.5	4166.9	4159.5
20°	6239.3	6273.6	5937.1	5475.2	5032.9	4614.0	4271.3	4073.5	3985.1	3940.8	3935.9
22.5°	6432.1	6395.3	5878.1	5282.3	4724.6	4247.9	3969.1	3877.0	3854.8	3845.0	3848.7
25°	6636.0	6523.0	5790.9	5030.5	4335.2	3881.9	3748.0	3773.8	3803.3	3799.6	3799.6
27.5°	6860.8	6653.2	5657.0	4696.3	3904.0	3582.1	3598.1	3692.7	3736.9	3735.7	3734.5
30°	7149.5	6800.7	5486.2	4294.6	3501.1	3370.8	3467.9	3583.4	3643.6	3641.1	3642.3
32.5°	7504.5	6962.8	5254.0	3846.2	3209.9	3214.8	3326.6	3440.9	3510.9	3504.7	3506.0
35°	7919.8	7144.6	4939.6	3404.0	3017.1	3090.8	3179.2	3259.1	3325.4	3316.8	3308.2
37.5°	8371.8	7322.7	4521.9	3008.5	2859.8	2975.3	3049.0	3062.5	3093.2	3071.1	3055.1
40°	8801.8	7459.1	3983.8	2684.1	2701.3	2877.0	2924.9	2870.9	2815.6	2808.2	2786.1
42.5°	9176.5	7504.5	3439.6	2424.9	2534.3	2773.8	2803.3	2690.3	2590.8	2544.1	2524.4
45°	9572.0	7520.5	2932.3	2207.5	2373.3	2681.7	2713.6	2562.5	2422.5	2321.8	2288.6
47.5°	10089.2	7636.0	2538.0	2046.6	2250.5	2620.3	2665.7	2460.6	2278.8	2135.0	2104.3
50°	10766.1	7864.5	2217.3	1923.7	2170.7	2579.7	2631.3	2361.1	2160.8	1987.6	1956.9
52.5°	11517.9	8074.5	1958.1	1824.2	2093.3	2508.5	2587.1	2289.8	2050.3	1851.3	1818.1
55°	12043.6	7913.6	1749.3	1721.0	1992.5	2406.5	2525.7	2229.6	1891.8	1718.6	1689.1
57.5°	12144.4	7363.3	1590.8	1614.2	1870.9	2278.8	2431.1	2095.7	1805.8	1660.9	1630.1
60°	11869.2	6596.7	1472.9	1515.9	1740.7	2117.8	2254.2	2001.1	1723.5	1599.4	1573.6
62.5°	11177.6	5811.8	1385.7	1427.4	1619.1	1954.4	2143.6	1901.6	1640.0	1529.4	1503.6
65°	9780.8	4879.4	1302.1	1348.8	1506.1	1813.2	2044.1	1809.5	1557.7	1472.9	1448.3
67.5°	7382.9	3654.6	1223.5	1265.3	1405.3	1690.3	1936.0	1718.6	1477.8	1423.8	1394.3
70°	4347.5	2288.6	1133.9	1178.1	1299.7	1562.6	1820.5	1619.1	1378.3	1353.7	1315.7
72.5°	2023.2	1377.1	1031.9	1074.9	1167.0	1391.8	1671.9	1488.9	1260.4	1206.3	1154.7
75°	1207.6	1007.3	911.5	949.6	1014.7	1210.0	1485.2	1356.2	1148.6	1077.3	1023.3
77.5°	902.9	770.2	778.8	819.4	872.2	1058.9	1315.7	1251.8	1062.6	1007.3	970.5
80°	649.8	584.7	635.1	679.3	734.6	963.1	1260.4	1157.2	960.6	886.9	852.5
82.5°	433.6	420.1	477.9	523.3	577.4	842.7	1184.2	1013.5	820.6	727.2	651.1
85°	239.5	253.1	321.9	341.5	388.2	593.3	970.5	814.5	617.9	497.5	475.4
87.5°	99.5	116.7	173.2	167.1	206.4	353.8	638.8	491.4	393.1	293.6	228.5
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)