

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: P192765

Luminaire Tested: **GAN-AF-07-LED-U-RW-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-RW-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45660.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 448
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: 28.75 FT

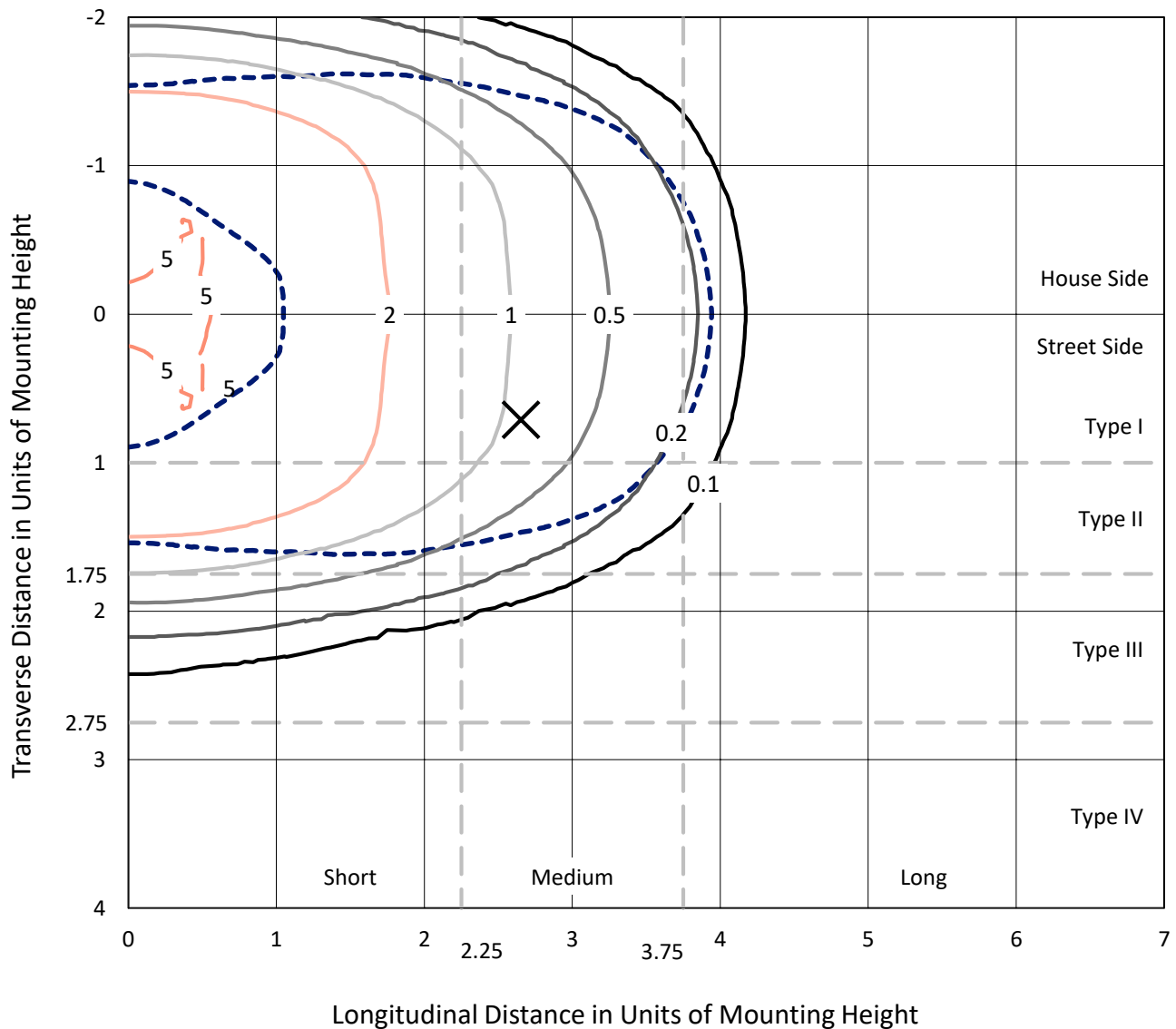


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

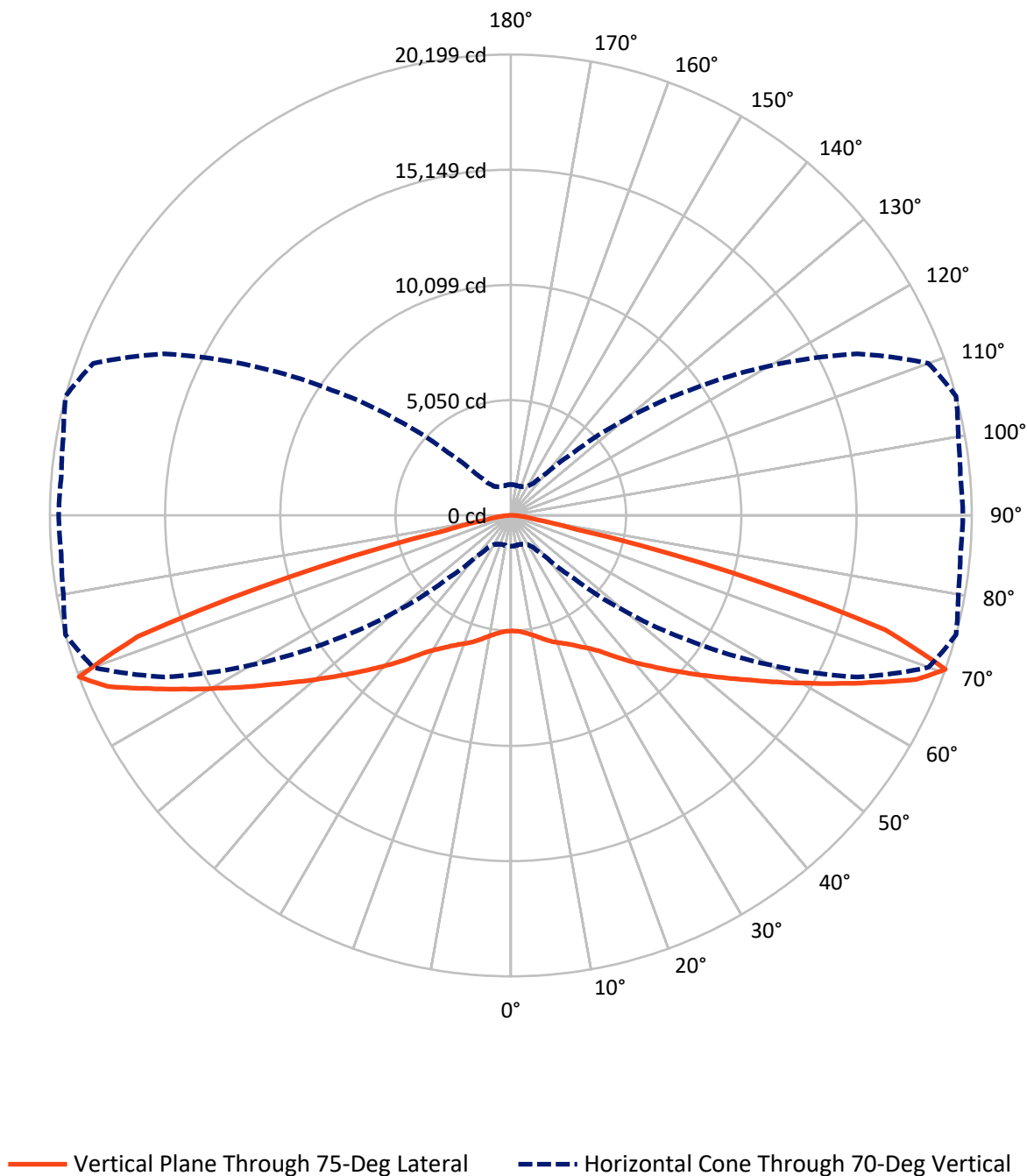


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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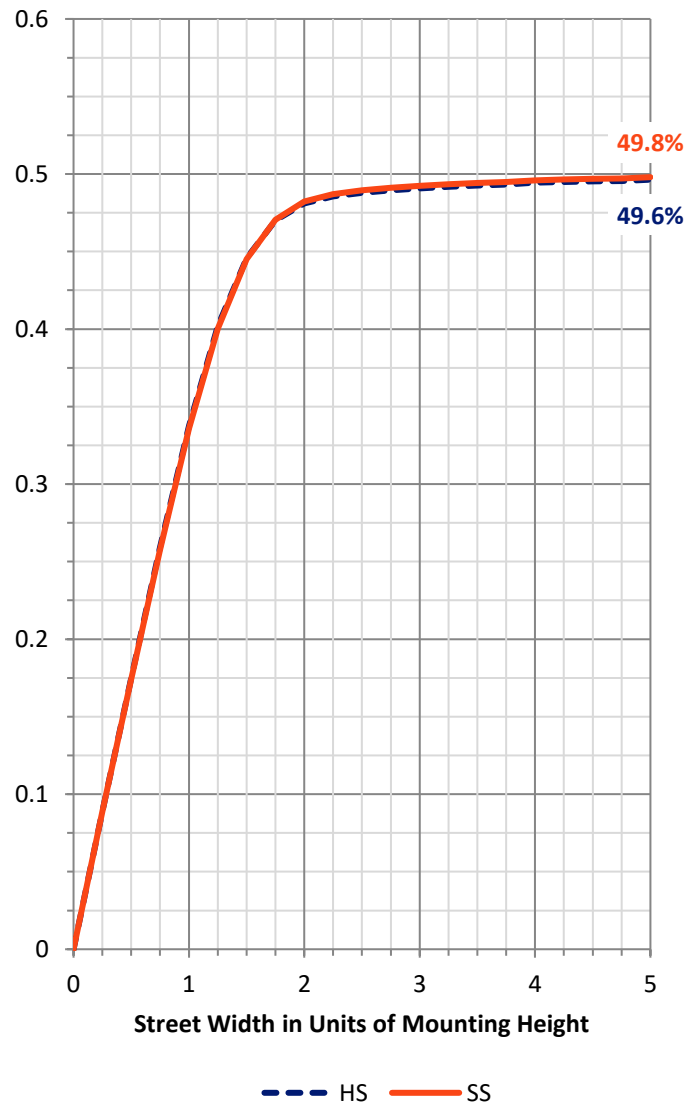
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22830.3	0.0	22830.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22830.3	0.0	22830.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	45660.5	0.0	45660.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.7	1.1
10°-20°	1509.3	3.3
20°-30°	2840.8	6.2
30°-40°	5030.4	11.0
40°-50°	8412.5	18.4
50°-60°	11722.8	25.7
60°-70°	10871.1	23.8
70°-80°	4332.5	9.5
80°-90°	455.4	1.0
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°	45660.5	100.0
0°-180°	45660.5	100.0

Coefficient of Utilization



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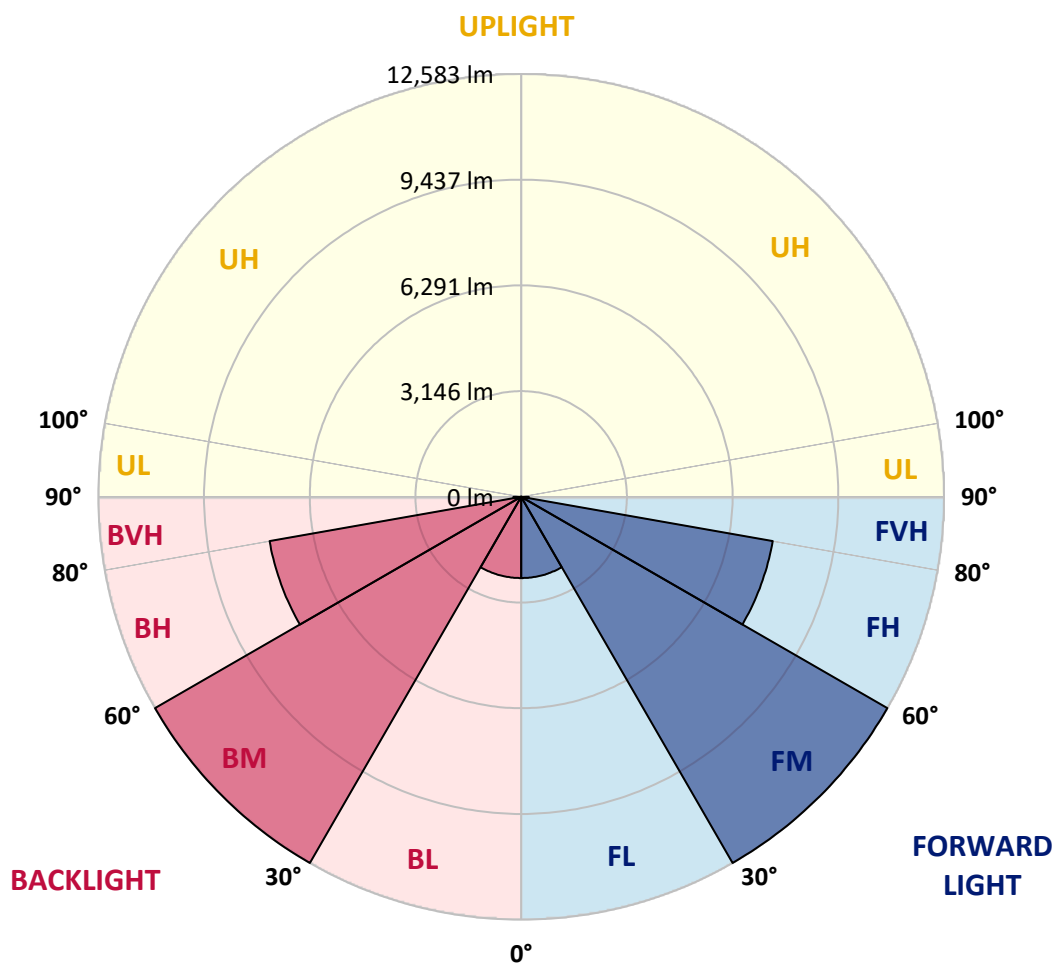
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2417.9	5.3			
FM	(30°-60°)	12582.9	27.6			
FH	(60°-80°)	7601.8	16.6			G4/12000
FVH	(80°-90°)	227.7	0.5			G3/500
BL	(0°-30°)	2417.9	5.3	B3/2500		
BM	(30°-60°)	12582.9	27.6	B5		
BH	(60°-80°)	7601.8	16.6	B5		G4/12000
BVH	(80°-90°)	227.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	5064.8	5064.8	5064.8	5064.8	5064.8	5064.8	5064.8	5064.8	5064.8	5064.8	5064.8
2.5°	5056.2	5051.8	5056.2	5054.0	5058.3	5058.3	5062.6	5071.3	5071.3	5077.8	5075.6
5°	5006.6	5004.4	5010.8	5017.3	5023.8	5036.8	5049.8	5069.1	5084.3	5095.0	5105.8
7.5°	4909.4	4909.4	4918.1	4933.2	4948.3	4976.3	5006.6	5045.4	5084.3	5116.6	5144.7
10°	4829.6	4833.9	4844.7	4870.6	4896.5	4939.6	4980.7	5036.8	5090.7	5144.7	5187.8
12.5°	4782.2	4788.7	4808.1	4846.8	4890.0	4948.3	5010.8	5082.0	5142.5	5207.3	5250.5
15°	4797.2	4801.5	4829.6	4877.2	4933.2	5006.6	5090.7	5174.8	5246.1	5315.1	5373.4
17.5°	4881.3	4887.8	4920.3	4974.1	5032.5	5118.8	5209.4	5304.3	5392.8	5470.5	5541.7
20°	5032.5	5038.9	5079.9	5138.1	5207.3	5295.7	5386.4	5485.6	5584.9	5666.9	5746.7
22.5°	5246.1	5256.9	5295.7	5354.0	5431.8	5526.7	5634.5	5740.3	5835.2	5910.7	5982.0
25°	5526.7	5550.4	5587.1	5651.8	5733.8	5820.1	5936.6	6044.6	6135.2	6206.4	6258.2
27.5°	5923.7	5956.0	5984.1	6046.7	6126.6	6208.5	6325.1	6420.1	6506.4	6575.4	6614.2
30°	6450.2	6482.6	6510.6	6571.1	6644.5	6722.1	6832.2	6916.3	6970.3	7024.3	7022.1
32.5°	7089.1	7123.6	7134.3	7199.1	7274.6	7358.7	7458.0	7505.6	7548.7	7555.2	7516.3
35°	7803.3	7820.6	7863.7	7950.0	8036.3	8105.4	8200.4	8224.2	8224.2	8191.7	8105.4
37.5°	8586.6	8597.5	8657.9	8755.0	8843.5	8914.7	8979.5	9026.9	9003.2	8934.1	8789.5
40°	9445.6	9465.0	9551.3	9637.6	9736.8	9803.8	9872.8	9881.5	9857.7	9756.3	9559.9
42.5°	10265.6	10282.8	10369.1	10505.2	10634.6	10727.4	10792.2	10805.0	10729.6	10636.7	10393.0
45°	10971.3	11016.6	11128.8	11288.4	11476.3	11607.8	11696.3	11733.1	11666.1	11545.3	11262.6
47.5°	11530.1	11575.5	11735.2	11925.1	12158.2	12371.8	12518.5	12596.2	12578.9	12488.4	12179.7
50°	11940.2	11983.3	12155.9	12389.0	12661.0	12926.4	13176.7	13362.3	13427.1	13386.0	13103.4
52.5°	11987.7	12058.8	12261.7	12574.6	12928.5	13291.1	13647.1	13962.2	14175.9	14208.3	13999.0
55°	11325.2	11396.4	11676.9	12140.9	12667.4	13258.7	13828.4	14359.3	14780.1	14996.0	14885.8
57.5°	9762.8	9890.1	10185.7	10729.6	11504.2	12389.0	13297.6	14240.7	15097.3	15669.2	15779.2
60°	7481.7	7632.9	7930.6	8509.0	9372.1	10427.4	11640.3	13034.3	14547.1	15833.2	16601.5
62.5°	4799.4	4941.8	5254.8	5757.5	6461.0	7604.8	8906.0	10561.2	12594.1	14624.8	16454.8
65°	2466.6	2544.3	2708.3	3012.6	3560.6	4415.2	5582.7	7233.6	9557.8	12063.2	14708.9
67.5°	1562.4	1577.4	1614.2	1657.4	1797.7	2093.3	2637.1	3666.4	5578.4	8191.7	11288.4
70°	1350.9	1350.9	1333.6	1327.2	1344.4	1385.4	1469.6	1709.2	2354.4	3888.7	6510.6
72.5°	1236.5	1223.6	1193.3	1169.6	1165.4	1165.4	1182.6	1219.3	1322.8	1583.9	2548.6
75°	1139.5	1102.8	1061.8	1033.7	1022.8	1012.1	1010.0	1016.4	1038.0	1079.1	1217.1
77.5°	1020.7	973.3	925.8	897.7	884.8	869.7	856.7	841.7	830.8	843.8	904.2
80°	878.3	824.4	787.6	770.4	757.5	735.9	707.8	681.9	658.2	653.9	690.5
82.5°	707.8	645.2	647.4	653.9	630.1	600.0	569.7	541.7	500.6	479.1	500.6
85°	571.9	539.5	524.5	565.4	530.9	485.5	438.0	388.4	323.7	271.9	295.6
87.5°	222.3	222.3	332.3	511.5	459.7	375.6	321.6	274.0	170.5	131.6	133.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	5064.8	5064.8	5064.8	5064.8	5064.8	5064.8	5064.8	5064.8
2.5°	5073.5	5077.8	5075.6	5073.5	5073.5	5071.3	5073.5	5073.5
5°	5112.2	5123.0	5123.0	5127.4	5127.4	5129.5	5131.7	5129.5
7.5°	5170.5	5190.1	5202.9	5218.0	5220.2	5222.4	5226.6	5222.4
10°	5228.8	5267.7	5295.7	5323.7	5336.8	5341.0	5345.4	5345.4
12.5°	5302.3	5356.1	5405.8	5455.5	5479.2	5492.1	5492.1	5500.7
15°	5423.1	5476.9	5535.3	5602.2	5643.1	5664.8	5671.2	5671.2
17.5°	5593.5	5641.0	5690.7	5755.3	5807.1	5835.2	5841.6	5839.6
20°	5792.1	5837.4	5865.5	5906.4	5951.8	5984.1	5992.8	5992.8
22.5°	6018.6	6044.6	6048.8	6061.8	6098.6	6141.7	6161.1	6165.4
25°	6269.0	6275.5	6258.2	6258.2	6282.0	6323.0	6342.4	6344.4
27.5°	6592.7	6560.4	6517.1	6502.0	6517.1	6564.7	6588.4	6597.0
30°	6996.2	6918.6	6819.3	6765.4	6756.7	6819.3	6862.5	6868.9
32.5°	7458.0	7345.8	7214.2	7104.1	7076.0	7115.0	7166.8	7164.5
35°	8006.2	7872.3	7712.7	7572.4	7507.6	7546.5	7619.8	7628.5
37.5°	8638.5	8463.7	8280.2	8103.3	8001.8	8012.6	8090.3	8116.3
40°	9344.1	9117.5	8886.6	8649.3	8504.6	8476.7	8571.6	8586.6
42.5°	10099.4	9808.1	9516.8	9223.2	9037.7	8994.6	9104.6	9098.1
45°	10904.4	10533.1	10192.2	9868.6	9648.3	9583.6	9674.3	9674.3
47.5°	11769.7	11312.2	10906.5	10539.7	10300.1	10207.3	10293.7	10300.1
50°	12686.8	12201.3	11724.4	11316.5	11029.5	10910.8	11023.0	11040.3
52.5°	13599.7	13127.1	12645.8	12179.7	11832.3	11687.7	11817.2	11873.3
55°	14525.5	14061.5	13601.9	13146.5	12734.3	12563.8	12701.9	12773.2
57.5°	15503.1	15073.6	14635.5	14175.9	13778.8	13513.4	13660.1	13755.0
60°	16648.9	16282.1	15826.7	15319.6	14918.3	14648.5	14732.6	14816.7
62.5°	17555.3	17697.7	17311.5	16724.5	16208.7	15863.5	15945.4	16033.9
65°	17117.2	18578.2	18921.3	18327.9	17613.5	17076.2	17041.7	17087.0
67.5°	14307.5	17145.3	19214.8	19780.2	19182.4	18435.8	18297.6	18364.6
70°	9570.7	13105.5	16756.9	19475.9	20198.9	19909.7	19773.7	19814.7
72.5°	4596.5	7632.9	11368.3	14982.9	17184.1	18194.1	18517.8	18675.2
75°	1681.1	3029.9	5479.2	8256.5	9967.8	11538.8	12563.8	12982.5
77.5°	1014.3	1223.6	1750.2	2634.9	2984.5	3340.6	3202.5	3271.5
80°	750.9	848.1	960.3	1079.1	1117.8	1117.8	1074.7	1040.1
82.5°	526.5	589.1	643.1	707.8	725.1	692.7	569.7	453.2
85°	338.8	366.9	390.6	431.6	420.7	401.4	269.8	239.5
87.5°	155.3	177.0	185.6	205.0	196.3	187.7	133.9	112.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)