

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: P192548

Luminaire Tested: **GAN-AF-10-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48363.6 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 419
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

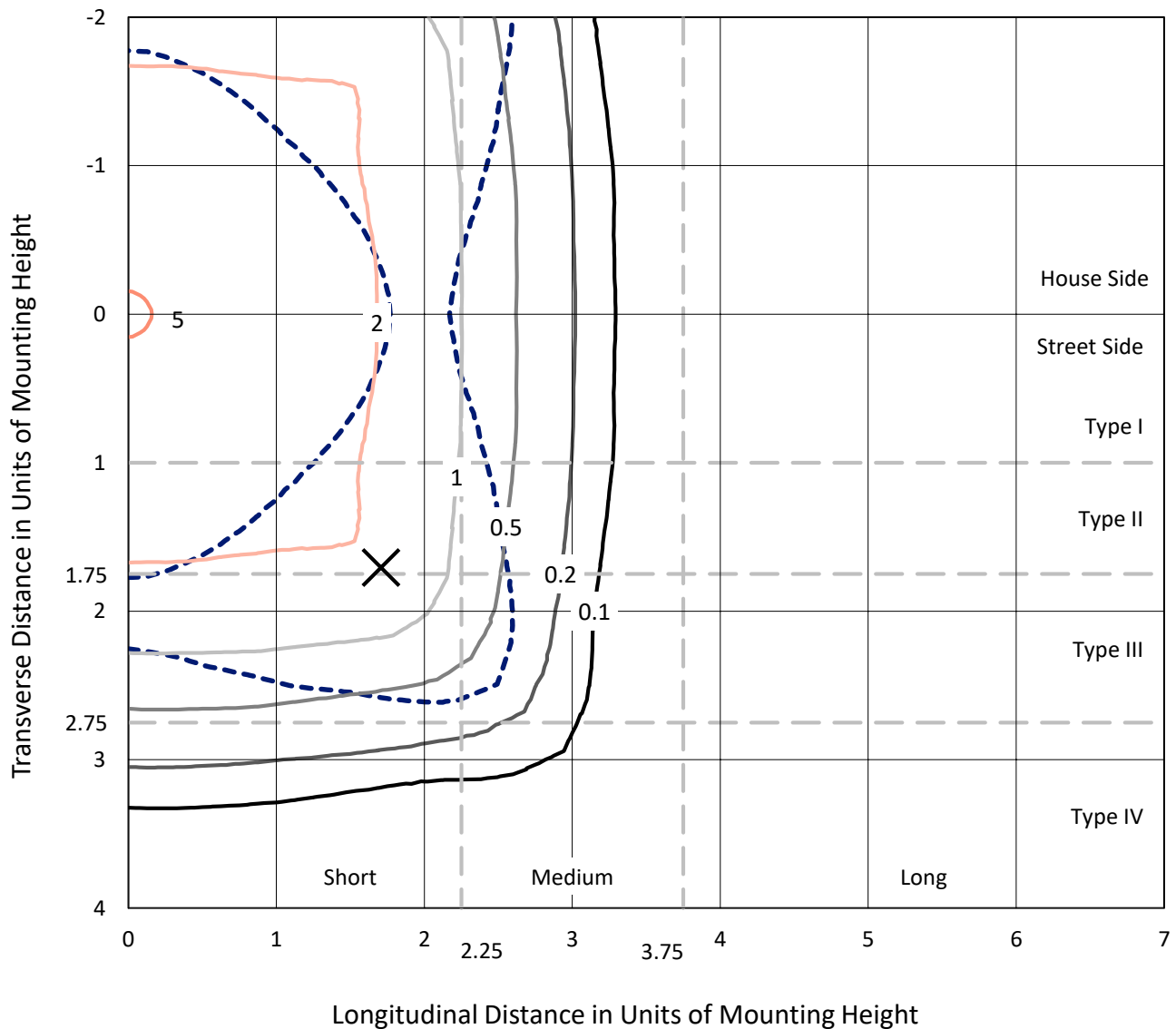


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

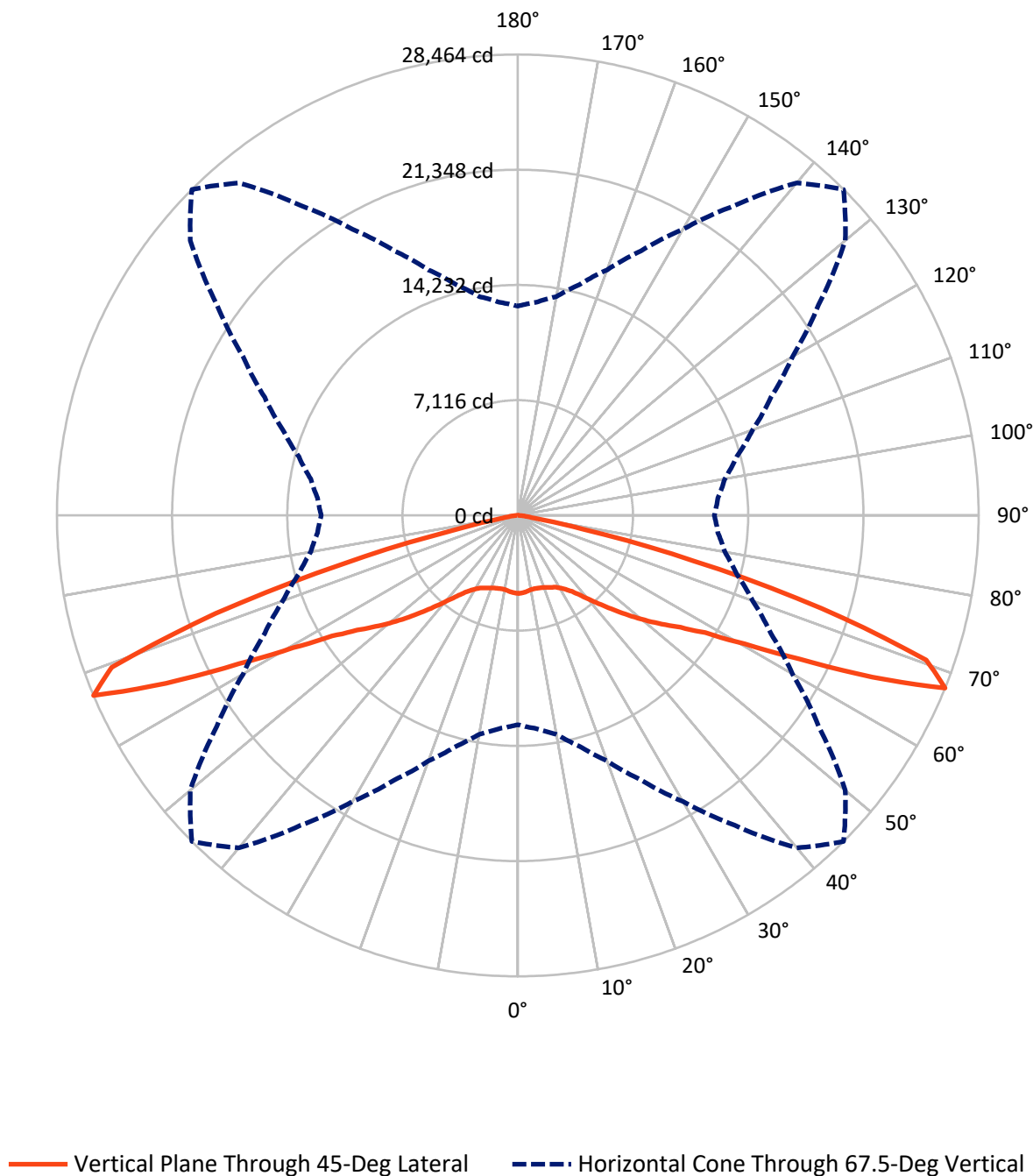


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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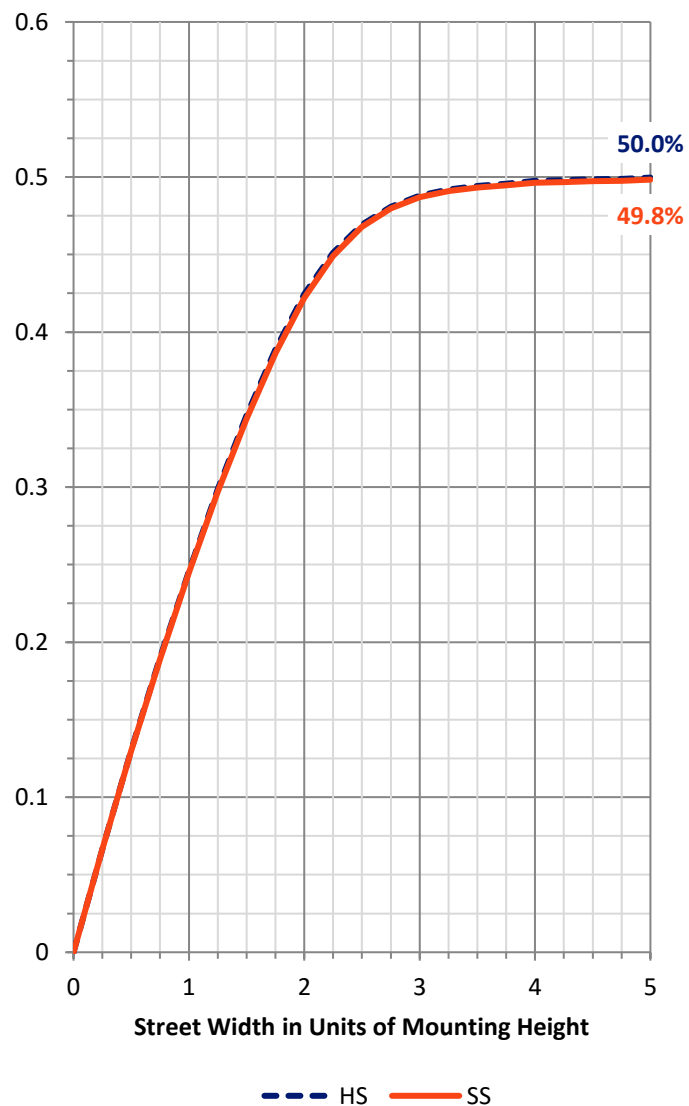
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24181.8	0.0	24181.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24181.8	0.0	24181.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	48363.6	0.0	48363.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.1	0.9
10°-20°	1309.0	2.7
20°-30°	2225.3	4.6
30°-40°	3637.6	7.5
40°-50°	6493.8	13.4
50°-60°	10948.8	22.6
60°-70°	16990.8	35.1
70°-80°	5969.8	12.3
80°-90°	337.4	0.7
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°	48363.6	100.0
0°-180°	48363.6	100.0

Coefficient of Utilization



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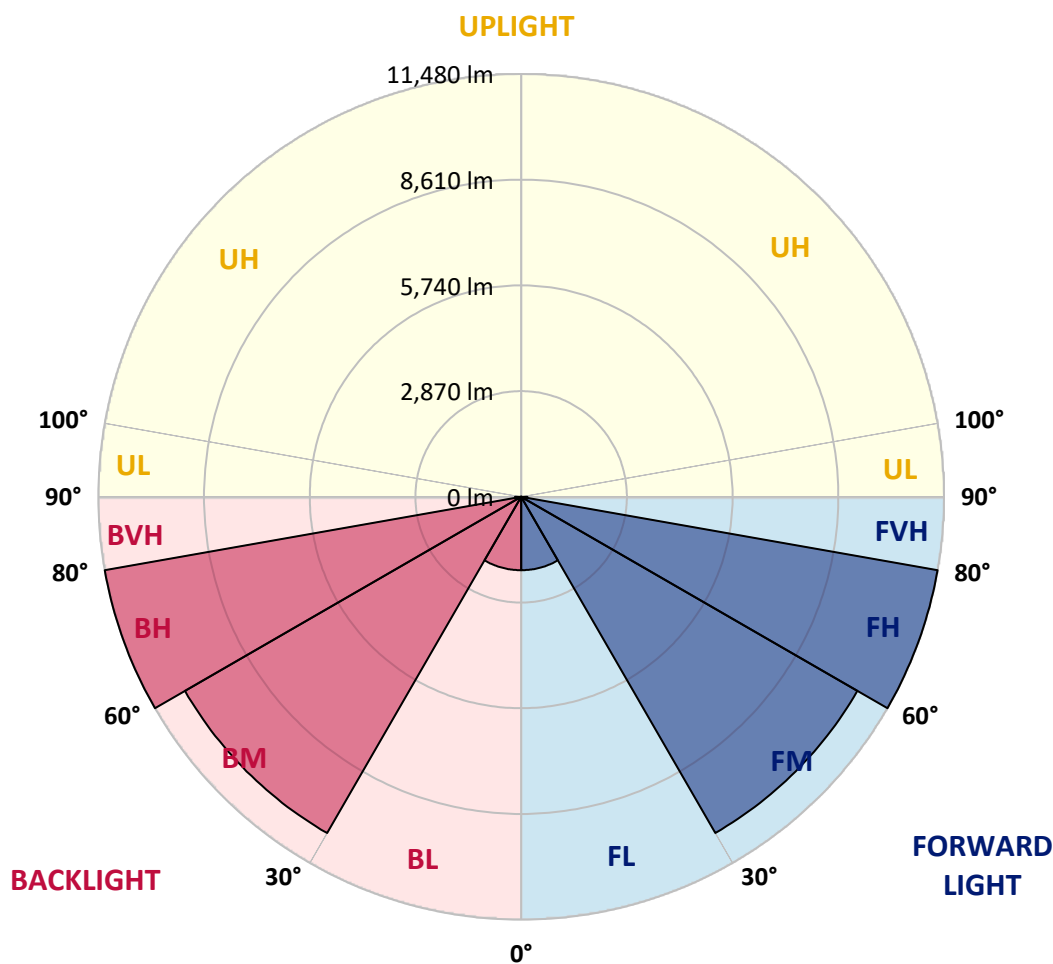
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1992.7	4.1			
FM	(30°-60°)	10540.1	21.8			
FH	(60°-80°)	11480.3	23.7			G4/12000
FVH	(80°-90°)	168.7	0.3			G2/225
BL	(0°-30°)	1992.7	4.1	B3/2500		
BM	(30°-60°)	10540.1	21.8	B5		
BH	(60°-80°)	11480.3	23.7	B5		G4/12000
BVH	(80°-90°)	168.7	0.3			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4819.7	4819.7	4819.7	4819.7	4819.7	4819.7	4819.7	4819.7	4819.7	4819.7	4819.7
2.5°	4801.8	4806.4	4806.4	4806.4	4804.0	4804.0	4799.6	4804.0	4801.8	4795.2	4797.3
5°	4761.8	4766.2	4766.2	4764.0	4770.7	4768.5	4761.8	4766.2	4764.0	4759.6	4761.8
7.5°	4703.9	4710.6	4710.6	4708.4	4715.1	4712.9	4708.4	4710.6	4710.6	4703.9	4703.9
10°	4639.4	4643.9	4643.9	4641.7	4652.8	4652.8	4650.6	4657.2	4659.5	4652.8	4648.4
12.5°	4579.4	4586.1	4586.1	4595.0	4606.2	4610.5	4621.6	4630.6	4639.4	4637.3	4628.3
15°	4543.9	4548.3	4557.2	4568.3	4586.1	4601.7	4619.5	4639.4	4657.2	4661.8	4648.4
17.5°	4521.5	4528.2	4541.6	4557.2	4581.7	4608.3	4635.0	4661.8	4686.2	4695.1	4679.5
20°	4514.9	4519.4	4532.7	4559.4	4592.8	4632.8	4670.7	4701.8	4735.1	4746.2	4735.1
22.5°	4528.2	4537.2	4552.8	4583.9	4628.3	4679.5	4724.1	4766.2	4808.5	4828.5	4813.0
25°	4588.4	4597.2	4617.3	4657.2	4706.3	4759.6	4810.8	4859.7	4897.4	4917.5	4906.4
27.5°	4699.6	4710.6	4735.1	4775.1	4828.5	4886.4	4942.1	4982.0	5013.2	5019.8	5006.5
30°	4866.3	4890.8	4919.7	4964.2	5026.5	5075.4	5131.1	5166.7	5204.4	5204.4	5193.3
32.5°	5126.6	5151.0	5182.1	5224.4	5273.4	5326.7	5375.7	5406.8	5446.8	5449.1	5422.3
35°	5515.7	5526.9	5553.5	5580.3	5624.7	5671.4	5713.7	5733.7	5767.1	5769.3	5744.9
37.5°	6029.6	6031.7	6049.5	6058.4	6098.6	6149.6	6189.6	6203.0	6234.2	6229.8	6205.3
40°	6627.8	6638.9	6645.5	6659.1	6701.2	6750.1	6792.4	6799.1	6832.4	6825.8	6794.7
42.5°	7319.5	7323.9	7361.8	7381.8	7421.9	7446.3	7499.7	7506.3	7546.4	7528.6	7493.0
45°	8095.8	8135.8	8171.4	8211.4	8253.7	8282.6	8324.8	8315.9	8342.6	8315.9	8295.9
47.5°	8911.9	8940.9	9021.0	9083.3	9152.2	9176.6	9236.7	9210.0	9236.7	9198.9	9192.2
50°	9810.5	9861.7	9930.7	10001.8	10075.3	10115.2	10193.2	10159.7	10195.3	10159.7	10139.7
52.5°	10695.7	10709.0	10860.3	10964.8	11067.2	11113.9	11160.7	11145.0	11147.1	11145.0	11125.0
55°	11536.4	11567.6	11718.8	11861.1	12039.1	12170.3	12250.3	12241.5	12221.4	12201.4	12168.1
57.5°	12483.9	12515.0	12688.5	12864.1	13066.7	13253.4	13415.8	13582.6	13647.1	13664.9	13591.6
60°	13765.0	13762.8	13994.0	14207.6	14496.7	14774.7	15130.6	15493.1	15909.0	16102.5	15846.8
62.5°	15068.3	15121.7	15455.3	15833.5	16429.5	17009.9	17666.0	18311.1	18969.4	19505.4	18936.0
65°	14912.6	15117.2	15613.2	16469.5	17570.4	18878.3	20292.7	21789.6	23141.8	24071.5	23028.3
67.5°	12924.3	13215.7	13720.6	14761.4	16138.1	18024.2	20399.5	23359.7	26800.5	28464.1	26402.4
70°	9367.9	9697.1	10226.4	11242.9	12606.3	14398.8	16978.8	20533.0	25087.9	26764.9	24494.1
72.5°	4661.8	4839.6	5166.7	5813.8	6845.7	8300.3	10640.1	14056.3	18086.4	19625.4	17550.5
75°	1583.6	1665.8	1721.5	1932.8	2259.7	2831.2	3994.5	6145.2	9374.6	11238.4	9241.1
77.5°	914.1	916.3	954.2	992.0	1047.6	1109.8	1265.5	1661.4	2873.5	4081.3	2973.6
80°	591.6	589.4	620.5	649.4	687.2	718.4	727.2	769.5	887.4	1051.9	940.8
82.5°	306.9	344.7	413.6	451.5	522.7	536.0	518.2	502.7	531.5	551.5	564.9
85°	169.1	146.9	220.1	284.7	315.9	320.2	320.2	302.4	313.6	306.9	333.6
87.5°	77.8	71.1	86.8	140.1	149.0	126.7	133.4	117.9	84.5	82.3	93.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	4819.7	4819.7	4819.7	4819.7	4819.7	4819.7	4819.7	4819.7
2.5°	4797.3	4799.6	4799.6	4806.4	4808.5	4813.0	4817.5	4819.7
5°	4759.6	4766.2	4761.8	4768.5	4768.5	4772.9	4772.9	4775.1
7.5°	4703.9	4710.6	4710.6	4710.6	4708.4	4715.1	4715.1	4715.1
10°	4646.1	4650.6	4648.4	4643.9	4639.4	4646.1	4643.9	4641.7
12.5°	4628.3	4617.3	4608.3	4603.8	4595.0	4597.2	4590.5	4590.5
15°	4639.4	4619.5	4603.8	4597.2	4588.4	4583.9	4579.4	4581.7
17.5°	4668.4	4643.9	4624.0	4612.8	4601.7	4595.0	4586.1	4588.4
20°	4719.6	4690.6	4661.8	4639.4	4619.5	4608.3	4601.7	4599.5
22.5°	4795.2	4752.9	4710.6	4677.3	4650.6	4635.0	4628.3	4624.0
25°	4881.9	4835.2	4786.3	4748.5	4721.7	4701.8	4688.5	4688.5
27.5°	4990.9	4953.0	4908.6	4864.1	4839.6	4819.7	4810.8	4806.4
30°	5173.3	5137.7	5102.1	5059.8	5028.6	5008.7	4993.1	4979.8
32.5°	5406.8	5377.8	5349.0	5317.8	5288.9	5262.3	5237.8	5226.6
35°	5736.0	5713.7	5693.7	5658.1	5646.9	5631.4	5618.1	5606.9
37.5°	6189.6	6180.8	6180.8	6143.0	6134.1	6127.4	6114.0	6116.4
40°	6785.8	6794.7	6783.5	6770.1	6763.4	6745.6	6745.6	6761.3
42.5°	7490.9	7497.5	7522.0	7499.7	7524.1	7502.0	7488.5	7499.7
45°	8309.2	8333.8	8382.7	8360.4	8376.1	8338.1	8291.4	8293.7
47.5°	9227.8	9250.1	9270.1	9254.5	9256.8	9194.5	9132.2	9116.6
50°	10182.0	10190.8	10202.0	10179.6	10184.2	10115.2	10044.1	10046.3
52.5°	11125.0	11167.3	11211.7	11151.6	11138.3	11060.6	10960.4	10920.4
55°	12203.7	12263.7	12212.6	12108.0	12003.6	11899.0	11767.8	11745.5
57.5°	13533.7	13431.4	13271.2	13073.3	12928.7	12781.9	12648.5	12592.9
60°	15384.1	14999.3	14710.2	14416.6	14232.0	14052.0	13876.2	13849.4
62.5°	17999.7	17334.6	16758.6	16151.5	15655.4	15268.4	14959.3	14872.6
65°	21278.0	19705.6	18342.2	17070.0	15964.6	15130.6	14605.7	14374.3
67.5°	22688.1	19583.3	17245.7	15439.8	13994.0	12984.4	12417.2	12134.8
70°	19936.9	16240.4	13698.3	11890.0	10573.3	9497.0	8983.2	8680.6
72.5°	13716.1	10331.0	8169.1	6667.9	5615.8	4715.1	4359.2	4332.5
75°	6158.5	4078.9	2811.2	2166.3	1823.7	1585.8	1512.3	1456.8
77.5°	1723.7	1274.4	1136.6	1063.1	992.0	909.7	878.6	885.2
80°	838.4	791.8	760.7	713.9	649.4	580.5	549.3	562.6
82.5°	556.0	549.3	569.4	536.0	442.6	375.9	315.9	289.1
85°	338.0	342.5	349.2	351.4	298.1	209.0	142.4	160.2
87.5°	133.4	153.5	166.8	173.5	162.4	100.1	80.1	82.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)