

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: P193387

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-5NQ-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36189 lumens
Efficiency: N/A
Efficacy: 96.8 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 - G3

Input Watts (W): 374
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

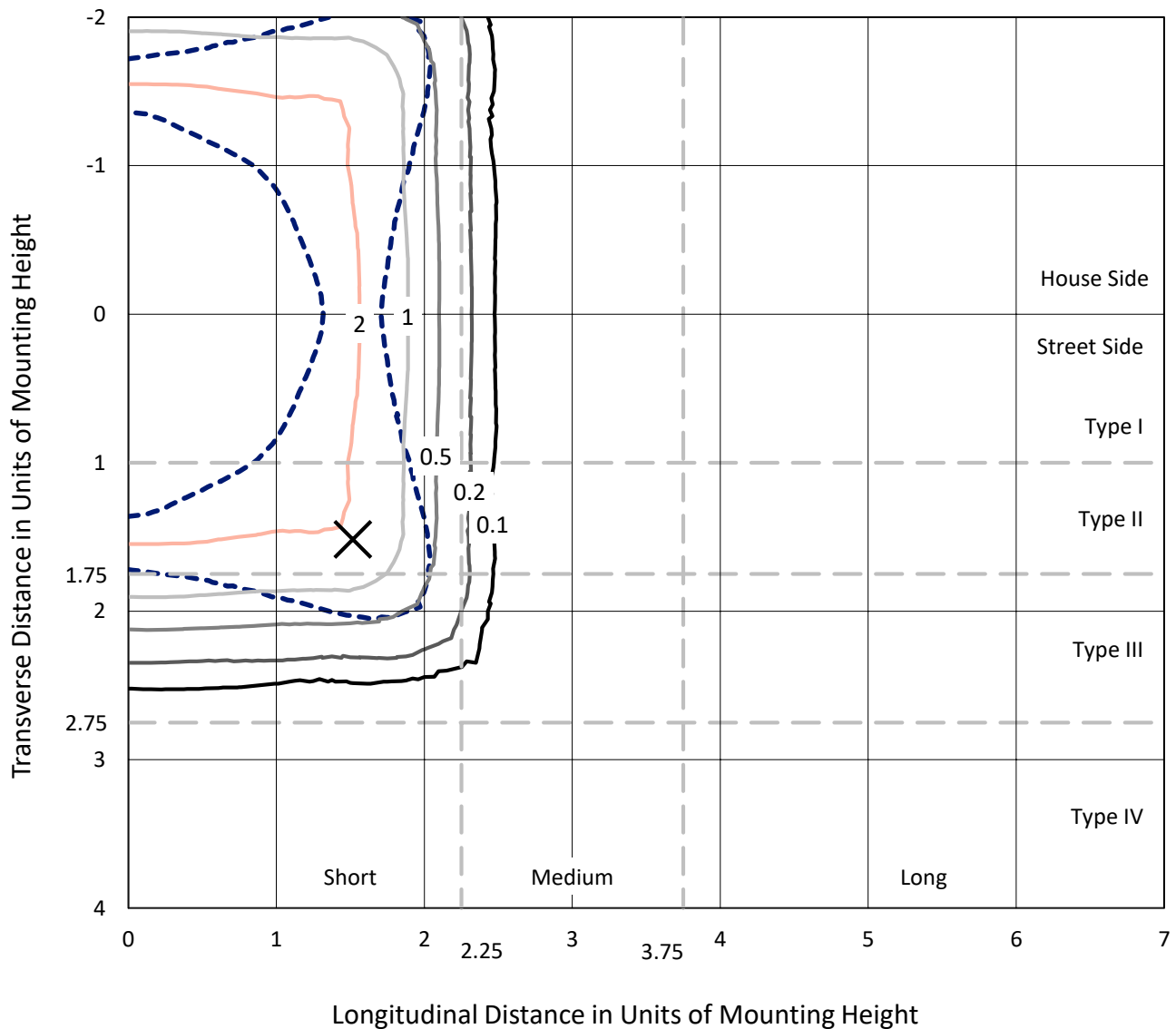


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

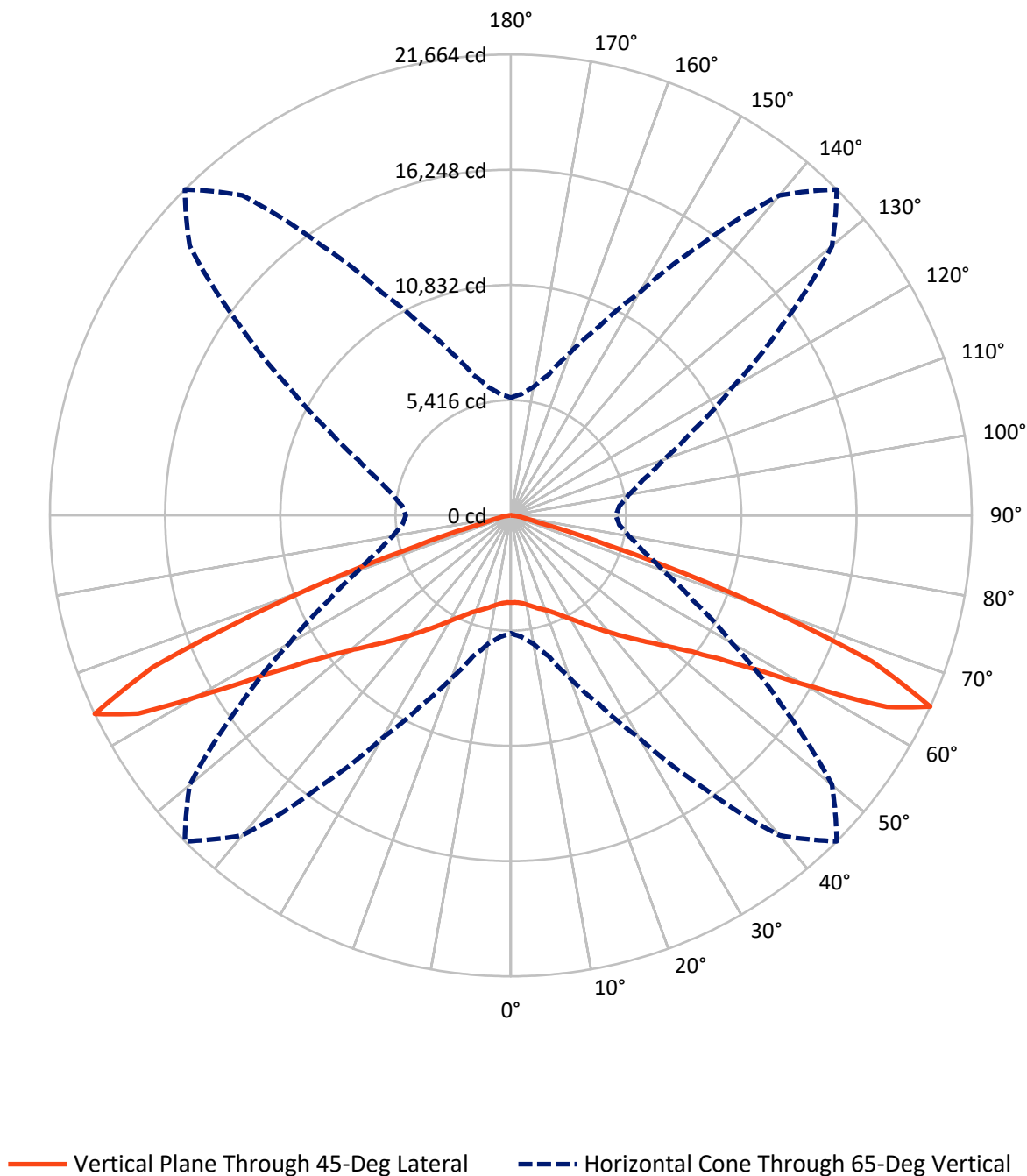


Based on 30 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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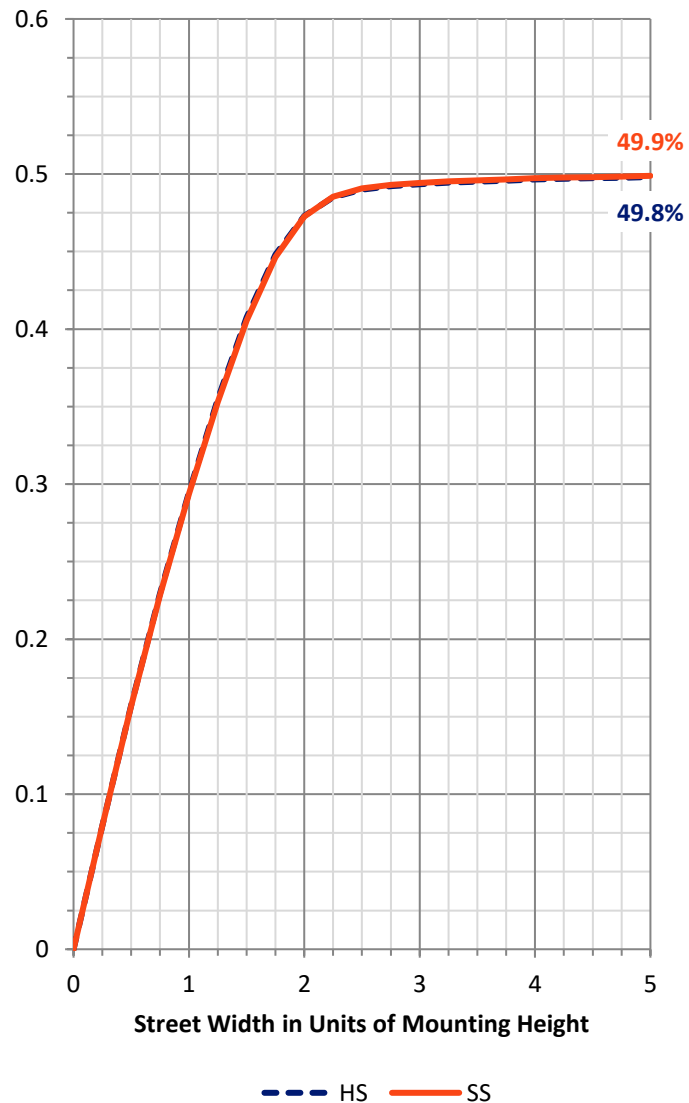
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18094.5	0.0	18094.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18094.5	0.0	18094.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36189.0	0.0	36189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.1	1.1
10°-20°	1280.0	3.5
20°-30°	2393.4	6.6
30°-40°	4047.9	11.2
40°-50°	6618.8	18.3
50°-60°	10524.9	29.1
60°-70°	9513.8	26.3
70°-80°	1204.0	3.3
80°-90°	207.1	0.6
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°	36189.0	100.0
0°-180°	36189.0	100.0

Coefficient of Utilization



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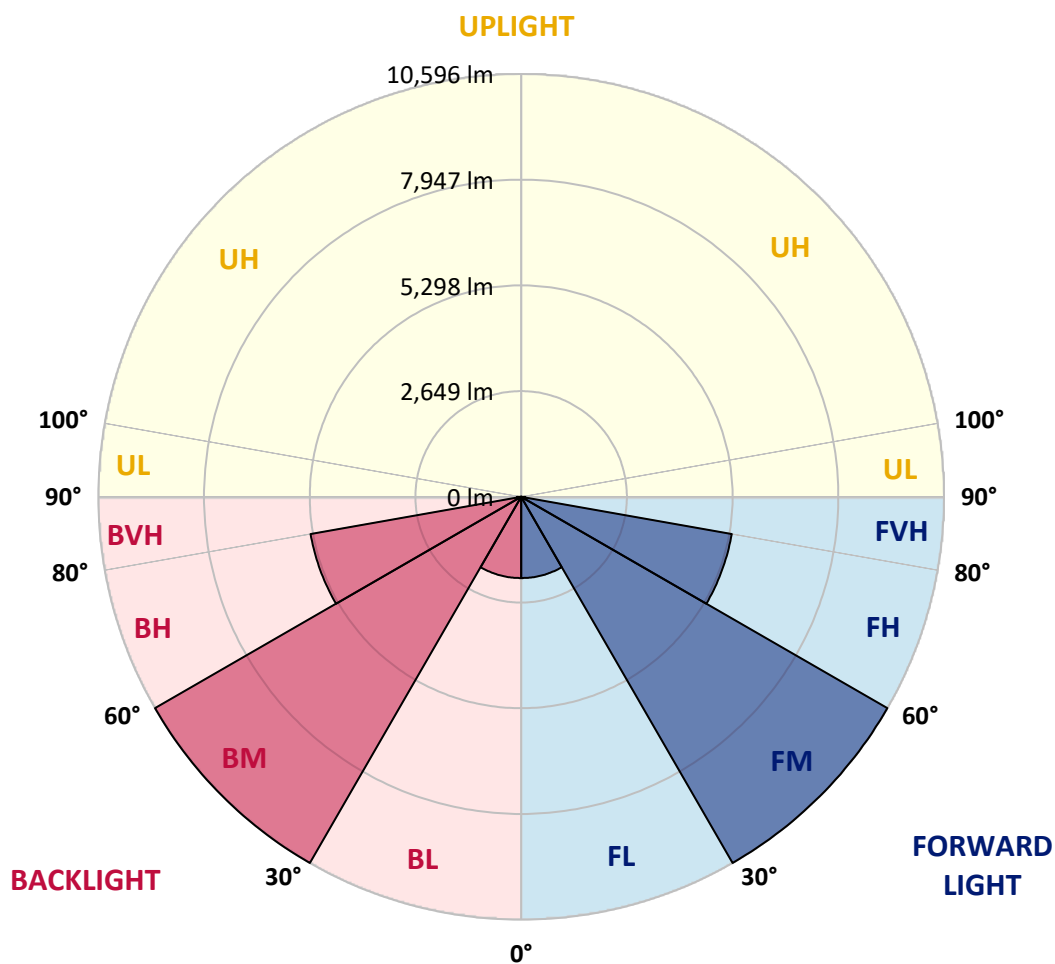
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2036.3	5.6			
FM	(30°-60°)	10595.8	29.3			
FH	(60°-80°)	5358.9	14.8			G3/7500
FVH	(80°-90°)	103.6	0.3			G2/225
BL	(0°-30°)	2036.3	5.6	B3/2500		
BM	(30°-60°)	10595.8	29.3	B5		
BH	(60°-80°)	5358.9	14.8	B5		G3/7500
BVH	(80°-90°)	103.6	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	4094.8	4094.8	4094.8	4094.8	4094.8	4094.8	4094.8	4094.8	4094.8	4094.8	4094.8
2.5°	4098.2	4101.6	4105.0	4101.6	4105.0	4099.9	4096.5	4101.6	4096.5	4091.4	4094.8
5°	4133.8	4135.5	4135.5	4130.4	4135.5	4132.1	4127.0	4133.8	4128.7	4123.6	4127.0
7.5°	4193.1	4199.9	4194.8	4189.7	4193.1	4189.7	4186.3	4188.0	4186.3	4181.2	4182.9
10°	4272.8	4277.9	4274.5	4272.8	4276.2	4274.5	4271.1	4269.4	4271.1	4266.0	4266.0
12.5°	4369.4	4367.7	4366.0	4367.7	4372.8	4372.8	4371.1	4372.8	4376.2	4377.8	4374.5
15°	4464.3	4467.7	4467.7	4467.7	4477.8	4486.3	4491.4	4494.8	4501.6	4503.3	4496.5
17.5°	4582.9	4582.9	4581.2	4582.9	4593.1	4606.7	4611.7	4618.5	4625.3	4630.4	4621.9
20°	4715.1	4718.5	4718.5	4721.9	4735.5	4750.7	4750.7	4754.1	4750.7	4754.1	4749.0
22.5°	4876.1	4886.3	4886.3	4888.0	4901.6	4920.2	4915.1	4920.2	4911.7	4918.5	4911.7
25°	5086.3	5101.6	5098.2	5098.2	5108.3	5120.2	5121.9	5132.1	5130.4	5138.8	5133.8
27.5°	5323.6	5347.3	5354.1	5352.4	5359.2	5371.0	5374.4	5386.3	5379.5	5386.3	5382.9
30°	5608.3	5618.5	5632.1	5637.1	5645.6	5657.5	5657.5	5659.2	5650.7	5660.9	5665.9
32.5°	5903.2	5921.9	5935.4	5965.9	5981.2	5989.7	5988.0	5991.4	5982.9	5996.4	6006.6
35°	6293.1	6306.6	6328.6	6352.4	6372.7	6371.0	6365.9	6367.6	6367.6	6379.5	6389.7
37.5°	6762.5	6765.9	6794.7	6828.6	6838.8	6828.6	6798.1	6791.3	6776.1	6791.3	6808.3
40°	7259.1	7271.0	7328.6	7350.6	7355.7	7337.1	7293.0	7267.6	7233.7	7252.3	7276.1
42.5°	7779.5	7803.2	7855.7	7894.7	7911.7	7899.8	7838.8	7799.8	7755.7	7765.9	7789.6
45°	8355.7	8384.5	8459.1	8496.4	8528.6	8509.9	8450.6	8391.3	8321.8	8326.9	8364.2
47.5°	8999.8	9028.6	9125.2	9187.9	9204.8	9201.4	9135.3	9054.0	8959.1	8955.7	8987.9
50°	9721.8	9750.6	9870.9	9967.5	10016.7	10011.6	9933.6	9818.4	9703.1	9704.8	9745.5
52.5°	10426.8	10462.4	10587.8	10753.9	10850.6	10920.0	10872.6	10764.1	10623.4	10626.8	10664.1
55°	11087.8	11147.2	11291.2	11516.6	11696.3	11891.2	11947.1	11943.7	11859.0	11882.7	11920.0
57.5°	11408.2	11496.3	11718.3	12074.3	12440.3	12836.9	13172.5	13423.4	13530.1	13691.2	13653.9
60°	10801.4	10942.1	11269.2	11792.9	12516.6	13343.7	14230.1	15096.2	15835.2	16392.8	16072.4
62.5°	8843.8	9026.9	9423.5	10094.6	11189.5	12513.2	14209.8	16257.2	18487.6	19833.4	18872.4
65°	5533.7	5723.6	6127.0	6845.6	8126.9	9772.6	12074.3	15467.4	19635.1	21663.8	19707.9
67.5°	2157.6	2261.0	2479.6	2938.9	3901.6	5366.0	7676.1	11526.8	16511.4	18289.3	16204.6
70°	1081.3	1091.5	1132.2	1216.9	1423.7	1849.1	2813.5	5343.9	9469.2	11437.0	9128.6
72.5°	781.3	783.0	803.4	840.7	906.8	1001.7	1184.7	1635.5	3079.6	4706.7	2886.4
75°	598.3	605.1	616.9	637.3	672.9	720.3	786.4	942.3	1167.8	1354.2	1139.0
77.5°	461.0	474.6	483.0	501.7	523.7	555.9	574.6	633.9	737.3	776.3	764.4
80°	350.8	362.7	381.3	396.6	411.9	427.1	420.3	447.4	501.7	533.9	516.9
82.5°	223.7	237.3	291.5	305.1	311.9	322.0	310.2	311.9	335.6	355.9	335.6
85°	144.1	152.5	184.7	201.7	203.4	210.2	205.1	193.2	193.2	176.3	198.3
87.5°	66.1	67.8	83.0	98.3	101.7	91.5	89.8	86.4	69.5	66.1	71.2
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°	4094.8	4094.8	4094.8	4094.8	4094.8	4094.8	4094.8	4094.8
2.5°	4093.1	4096.5	4098.2	4103.3	4105.0	4105.0	4106.7	4110.1
5°	4125.3	4130.4	4132.1	4138.9	4140.6	4138.9	4142.3	4144.0
7.5°	4182.9	4191.4	4194.8	4201.6	4196.5	4203.3	4205.0	4205.0
10°	4267.7	4276.2	4277.9	4284.6	4281.2	4284.6	4284.6	4281.2
12.5°	4379.5	4381.2	4376.2	4381.2	4374.5	4377.8	4372.8	4369.4
15°	4503.3	4498.2	4486.3	4486.3	4476.2	4477.8	4476.2	4474.5
17.5°	4623.6	4613.4	4605.0	4601.6	4593.1	4591.4	4586.3	4586.3
20°	4755.8	4750.7	4745.6	4738.9	4730.4	4721.9	4720.2	4723.6
22.5°	4915.1	4913.4	4913.4	4910.0	4898.2	4889.7	4884.6	4884.6
25°	5128.7	5113.4	5113.4	5111.7	5106.6	5101.6	5091.4	5096.5
27.5°	5369.3	5360.9	5367.7	5366.0	5360.9	5360.9	5354.1	5354.1
30°	5665.9	5662.6	5672.7	5664.3	5647.3	5645.6	5638.8	5630.4
32.5°	6008.3	6004.9	6020.2	6010.0	5982.9	5967.6	5954.1	5947.3
35°	6389.7	6391.4	6410.0	6403.2	6372.7	6362.5	6338.8	6335.4
37.5°	6806.6	6833.7	6865.9	6872.7	6847.3	6840.5	6815.1	6801.5
40°	7296.4	7332.0	7381.2	7393.0	7365.9	7360.8	7325.2	7306.6
42.5°	7818.4	7879.4	7940.5	7950.6	7923.5	7896.4	7862.5	7848.9
45°	8401.5	8474.3	8554.0	8574.3	8533.7	8501.5	8457.4	8457.4
47.5°	9055.7	9147.2	9237.0	9293.0	9255.7	9221.8	9169.2	9135.3
50°	9828.5	9954.0	10070.9	10128.5	10069.2	10004.8	9913.3	9882.8
52.5°	10798.0	10933.6	11035.3	11004.8	10913.3	10823.4	10723.4	10682.8
55°	12035.3	12081.0	12081.0	11965.8	11782.7	11631.9	11474.3	11421.7
57.5°	13582.7	13406.4	13135.2	12791.2	12359.0	11982.7	11728.5	11608.2
60°	15401.3	14553.8	13596.2	12655.6	11882.7	11245.5	10867.5	10694.6
62.5°	16613.1	14396.2	12477.6	10967.5	9855.7	9087.9	8565.9	8362.5
65°	15526.7	12006.5	9437.0	7630.3	6418.5	5637.1	5120.2	4930.4
67.5°	11372.6	7523.5	5025.3	3601.6	2638.9	2105.0	1893.2	1805.0
70°	5104.9	2649.1	1623.7	1267.8	1093.2	1003.4	964.4	950.8
72.5°	1538.9	1113.5	939.0	847.4	777.9	733.9	701.7	698.3
75°	928.8	772.9	686.4	632.2	588.1	552.5	535.6	530.5
77.5°	649.1	567.8	527.1	488.1	454.2	427.1	411.9	400.0
80°	455.9	416.9	398.3	376.3	354.2	328.8	306.8	296.6
82.5°	305.1	296.6	296.6	283.0	264.4	240.7	196.6	186.4
85°	196.6	194.9	198.3	193.2	179.7	154.2	127.1	120.3
87.5°	91.5	93.2	103.4	101.7	98.3	81.4	64.4	61.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)