

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: P192605

Luminaire Tested: **GAN-AF-07-LED-U-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192605
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-07-LED-U-5NQ-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46076.8 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

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

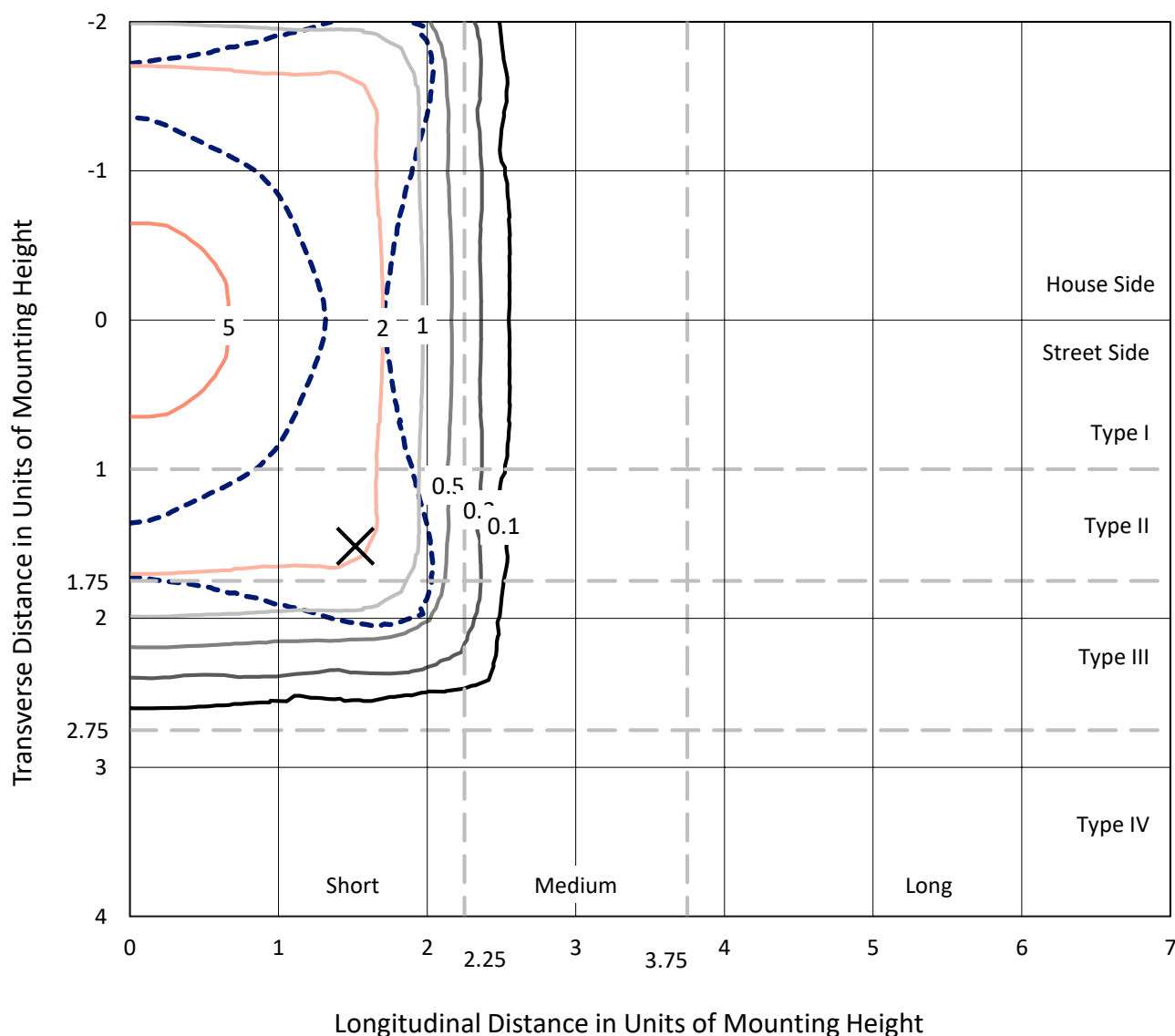


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

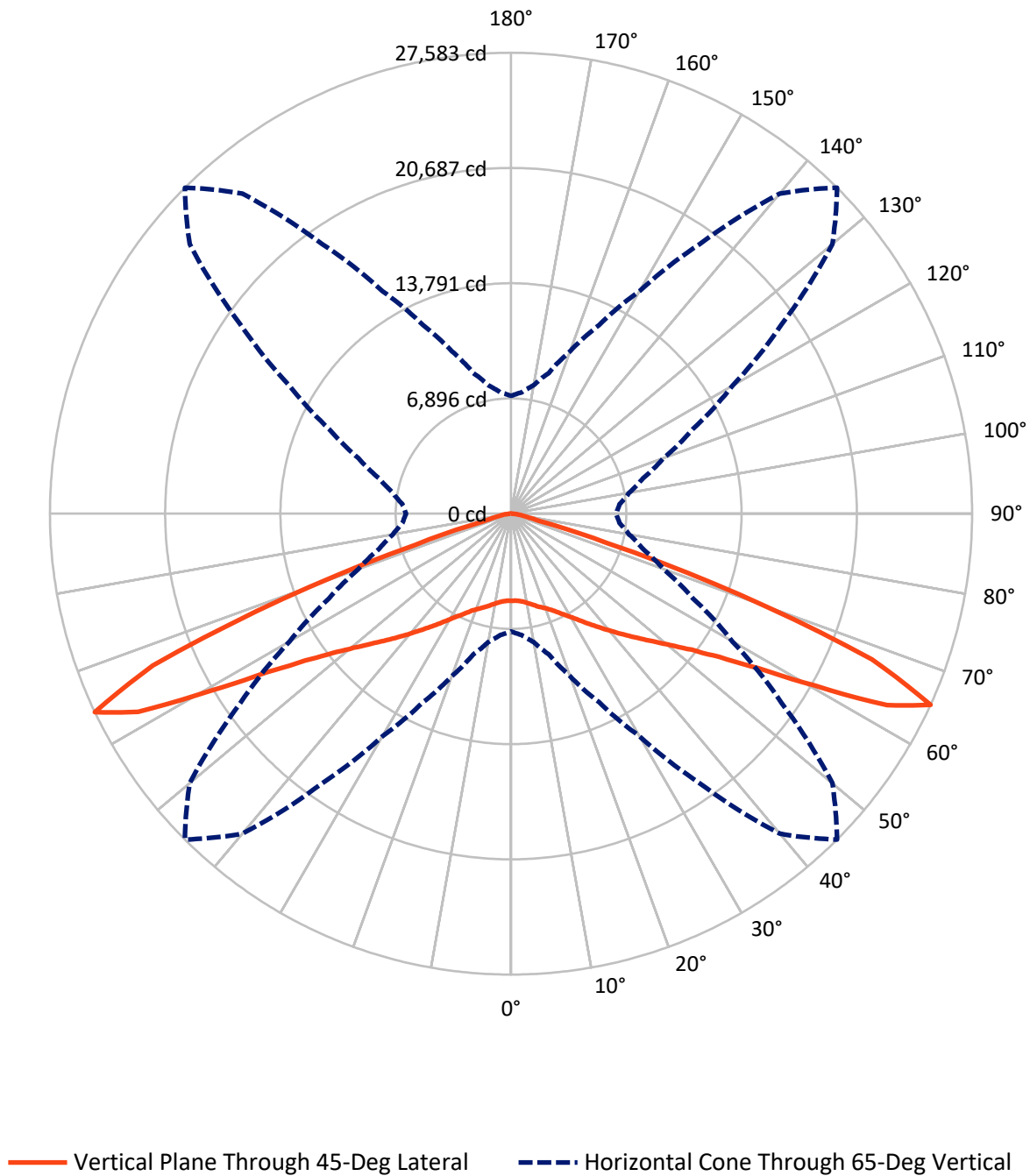


Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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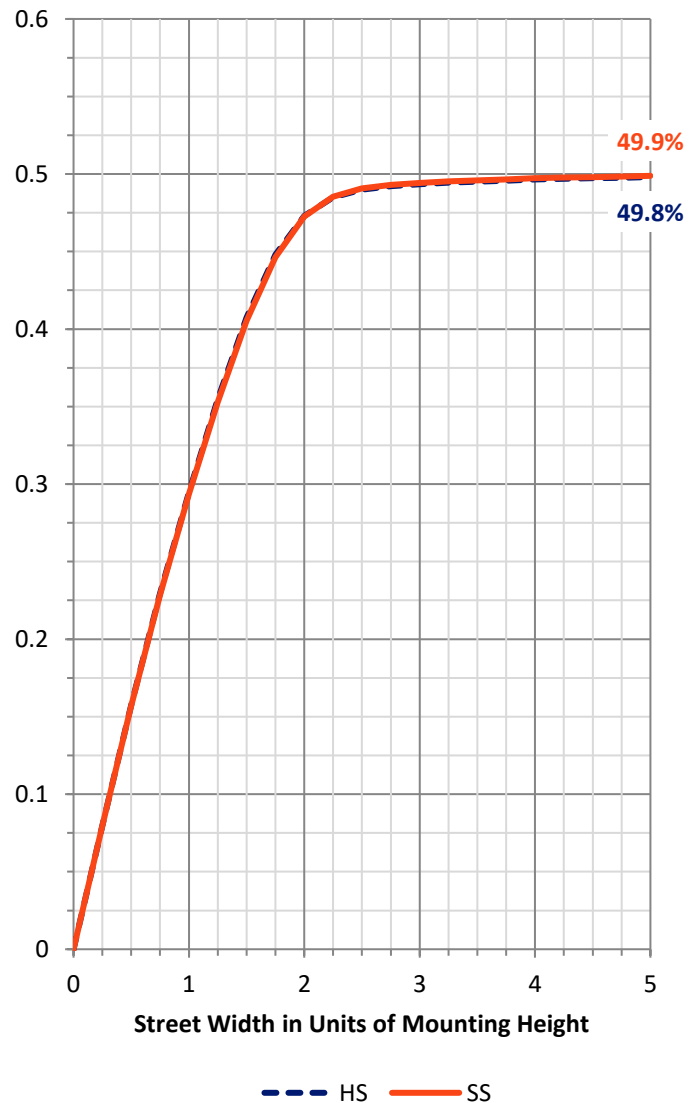
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23038.4	0.0	23038.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23038.4	0.0	23038.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	46076.8	0.0	46076.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.2	1.1
10°-20°	1629.8	3.5
20°-30°	3047.3	6.6
30°-40°	5153.9	11.2
40°-50°	8427.2	18.3
50°-60°	13400.5	29.1
60°-70°	12113.2	26.3
70°-80°	1533.0	3.3
80°-90°	263.7	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°	46076.8	100.0
0°-180°	46076.8	100.0

Coefficient of Utilization



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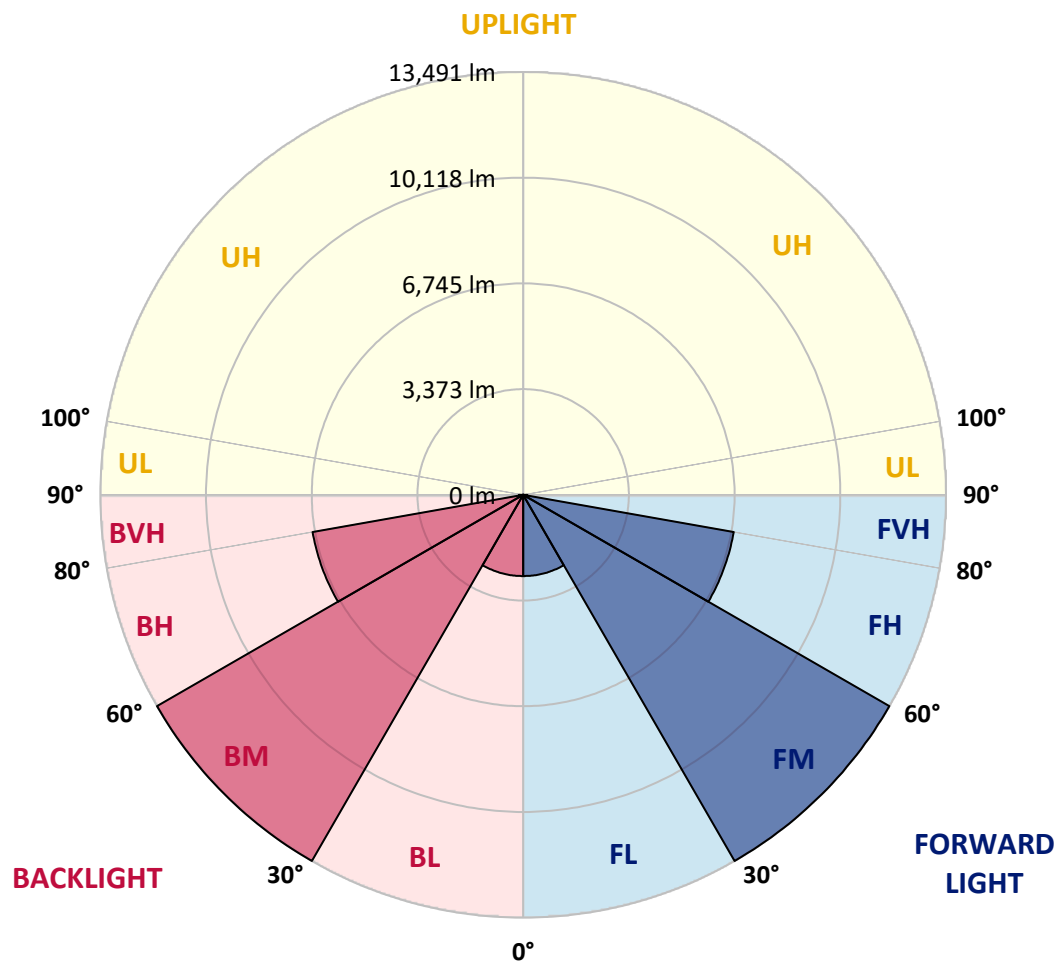
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2592.6	5.6			
FM	(30°-60°)	13490.8	29.3			
FH	(60°-80°)	6823.1	14.8			G3/7500
FVH	(80°-90°)	131.9	0.3			G2/225
BL	(0°-30°)	2592.6	5.6	B4/5000		
BM	(30°-60°)	13490.8	29.3	B5		
BH	(60°-80°)	6823.1	14.8	B5		G3/7500
BVH	(80°-90°)	131.9	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°	5213.7	5213.7	5213.7	5213.7	5213.7	5213.7	5213.7	5213.7	5213.7	5213.7	5213.7
2.5°	5217.9	5222.3	5226.5	5222.3	5226.5	5220.1	5215.8	5222.3	5215.8	5209.3	5213.7
5°	5263.2	5265.4	5265.4	5258.9	5265.4	5261.1	5254.6	5263.2	5256.8	5250.4	5254.6
7.5°	5338.7	5347.3	5340.9	5334.5	5338.7	5334.5	5330.1	5332.3	5330.1	5323.6	5325.9
10°	5440.2	5446.7	5442.3	5440.2	5444.5	5442.3	5438.1	5435.8	5438.1	5431.6	5431.6
12.5°	5563.2	5561.1	5558.9	5561.1	5567.6	5567.6	5565.3	5567.6	5571.7	5574.0	5569.7
15°	5684.1	5688.4	5688.4	5688.4	5701.3	5712.1	5718.6	5722.9	5731.5	5733.7	5725.0
17.5°	5835.1	5835.1	5833.0	5835.1	5848.1	5865.4	5871.8	5880.5	5889.1	5895.5	5884.7
20°	6003.5	6007.7	6007.7	6012.1	6029.4	6048.7	6048.7	6053.1	6048.7	6053.1	6046.6
22.5°	6208.4	6221.3	6221.3	6223.5	6240.8	6264.5	6258.1	6264.5	6253.8	6262.4	6253.8
25°	6476.1	6495.5	6491.1	6491.1	6504.1	6519.2	6521.3	6534.2	6532.2	6542.9	6536.4
27.5°	6778.1	6808.4	6817.0	6814.8	6823.5	6838.5	6842.9	6857.9	6849.4	6857.9	6853.7
30°	7140.6	7153.6	7170.9	7177.4	7188.1	7203.3	7203.3	7205.4	7194.6	7207.7	7214.1
32.5°	7516.2	7539.9	7557.1	7596.0	7615.4	7626.2	7624.0	7628.4	7617.5	7634.8	7647.8
35°	8012.5	8029.8	8057.8	8088.0	8113.9	8111.7	8105.3	8107.5	8107.5	8122.6	8135.5
37.5°	8610.2	8614.5	8651.2	8694.5	8707.3	8694.5	8655.5	8646.9	8627.5	8646.9	8668.5
40°	9242.6	9257.6	9331.0	9359.0	9365.4	9341.7	9285.7	9253.2	9210.1	9233.9	9264.1
42.5°	9905.0	9935.3	10002.1	10051.8	10073.3	10058.2	9980.5	9930.9	9874.8	9887.8	9918.0
45°	10638.7	10675.4	10770.3	10817.9	10858.8	10835.1	10759.6	10684.0	10595.5	10602.1	10649.5
47.5°	11458.8	11495.3	11618.4	11698.3	11719.8	11715.6	11631.4	11527.8	11407.0	11402.7	11443.6
50°	12378.0	12414.7	12567.9	12690.9	12753.5	12747.1	12647.8	12501.0	12354.3	12356.4	12408.2
52.5°	13275.8	13321.0	13480.7	13692.3	13815.2	13903.7	13843.2	13705.2	13526.1	13530.3	13577.8
55°	14117.3	14192.9	14376.4	14663.2	14892.0	15140.2	15211.4	15207.1	15099.2	15129.4	15176.8
57.5°	14525.2	14637.4	14920.1	15373.3	15839.5	16344.3	16771.7	17091.0	17226.9	17432.0	17384.5
60°	13752.7	13931.7	14348.3	15015.1	15936.4	16989.6	18118.1	19220.9	20161.7	20871.7	20463.8
62.5°	11260.1	11493.3	11998.2	12852.8	14246.9	15932.1	18092.2	20699.0	23539.0	25252.3	24028.9
65°	7045.7	7287.4	7801.0	8715.9	10347.4	12442.8	15373.3	19693.4	24999.9	27582.9	25092.7
67.5°	2747.1	2878.8	3157.0	3741.9	4967.6	6832.1	9773.4	14676.2	21022.8	23286.4	20632.2
70°	1376.7	1389.7	1441.5	1549.4	1812.7	2354.3	3582.2	6804.0	12056.5	14561.8	11622.8
72.5°	994.8	997.0	1022.8	1070.3	1154.6	1275.4	1508.5	2082.4	3921.0	5992.7	3675.1
75°	761.7	770.4	785.5	811.4	856.7	917.1	1001.3	1199.7	1486.8	1724.2	1450.2
77.5°	586.9	604.2	615.0	638.7	666.8	707.8	731.6	807.1	938.7	988.4	973.3
80°	446.7	461.8	485.5	505.0	524.3	543.8	535.2	569.7	638.7	679.7	658.2
82.5°	284.8	302.1	371.2	388.4	397.0	410.0	394.9	397.0	427.3	453.2	427.3
85°	183.4	194.3	235.2	256.8	259.0	267.5	261.1	246.1	246.1	224.4	252.5
87.5°	84.1	86.4	105.8	125.2	129.5	116.6	114.4	110.1	88.5	84.1	90.6
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°	5213.7	5213.7	5213.7	5213.7	5213.7	5213.7	5213.7	5213.7
2.5°	5211.4	5215.8	5217.9	5224.4	5226.5	5226.5	5228.7	5233.1
5°	5252.4	5258.9	5261.1	5269.7	5271.9	5269.7	5274.1	5276.2
7.5°	5325.9	5336.7	5340.9	5349.6	5343.1	5351.7	5353.9	5353.9
10°	5433.7	5444.5	5446.7	5455.4	5451.0	5455.4	5455.4	5451.0
12.5°	5576.1	5578.3	5571.7	5578.3	5569.7	5574.0	5567.6	5563.2
15°	5733.7	5727.3	5712.1	5712.1	5699.2	5701.3	5699.2	5697.0
17.5°	5886.9	5874.0	5863.2	5858.8	5848.1	5845.9	5839.5	5839.5
20°	6055.2	6048.7	6042.2	6033.7	6022.8	6012.1	6010.0	6014.1
22.5°	6258.1	6255.8	6255.8	6251.6	6236.5	6225.7	6219.2	6219.2
25°	6530.0	6510.5	6510.5	6508.3	6501.9	6495.5	6482.5	6489.0
27.5°	6836.4	6825.7	6834.2	6832.1	6825.7	6825.7	6817.0	6817.0
30°	7214.1	7209.7	7222.7	7211.8	7190.4	7188.1	7179.5	7168.7
32.5°	7649.9	7645.6	7665.1	7652.1	7617.5	7598.1	7580.9	7572.2
35°	8135.5	8137.6	8161.3	8152.7	8113.9	8100.9	8070.8	8066.4
37.5°	8666.3	8700.9	8741.9	8750.5	8718.2	8709.5	8677.2	8659.9
40°	9290.0	9335.3	9397.9	9413.0	9378.5	9372.0	9326.7	9303.0
42.5°	9954.6	10032.3	10110.0	10123.0	10088.5	10053.9	10010.8	9993.5
45°	10697.0	10789.8	10891.2	10917.0	10865.3	10824.4	10768.1	10768.1
47.5°	11529.9	11646.5	11760.8	11832.0	11784.6	11741.4	11674.6	11631.4
50°	12514.0	12673.6	12822.5	12896.0	12820.4	12738.4	12621.8	12583.1
52.5°	13748.3	13920.9	14050.4	14011.6	13895.0	13780.7	13653.4	13601.5
55°	15323.6	15381.8	15381.8	15235.1	15002.1	14810.0	14609.4	14542.4
57.5°	17293.9	17069.5	16724.1	16286.0	15735.8	15256.8	14933.0	14779.8
60°	19609.3	18530.4	17311.1	16113.4	15129.4	14318.0	13836.8	13616.7
62.5°	21152.3	18329.7	15886.9	13964.1	12548.5	11571.0	10906.3	10647.4
65°	19769.1	15286.9	12015.5	9715.2	8172.1	7177.4	6519.2	6277.5
67.5°	14479.9	9579.2	6398.3	4585.6	3359.9	2680.1	2410.5	2298.3
70°	6499.8	3372.9	2067.3	1614.2	1391.9	1277.5	1227.8	1210.6
72.5°	1959.4	1417.7	1195.6	1078.9	990.6	934.3	893.4	889.1
75°	1182.5	984.0	874.0	804.9	748.9	703.5	681.9	675.4
77.5°	826.5	723.0	671.1	621.4	578.3	543.8	524.3	509.2
80°	580.5	530.9	507.1	479.1	451.0	418.7	390.6	377.6
82.5°	388.4	377.6	377.6	360.3	336.6	306.5	250.3	237.4
85°	250.3	248.1	252.5	246.1	228.8	196.3	161.8	153.2
87.5°	116.6	118.6	131.6	129.5	125.2	103.6	82.1	77.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)