

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: P192597

Luminaire Tested: **GAN-AF-09-LED-U-5NQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192597
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-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53089.1 lumens
Efficiency: N/A
Efficacy: 106.0 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): 501
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

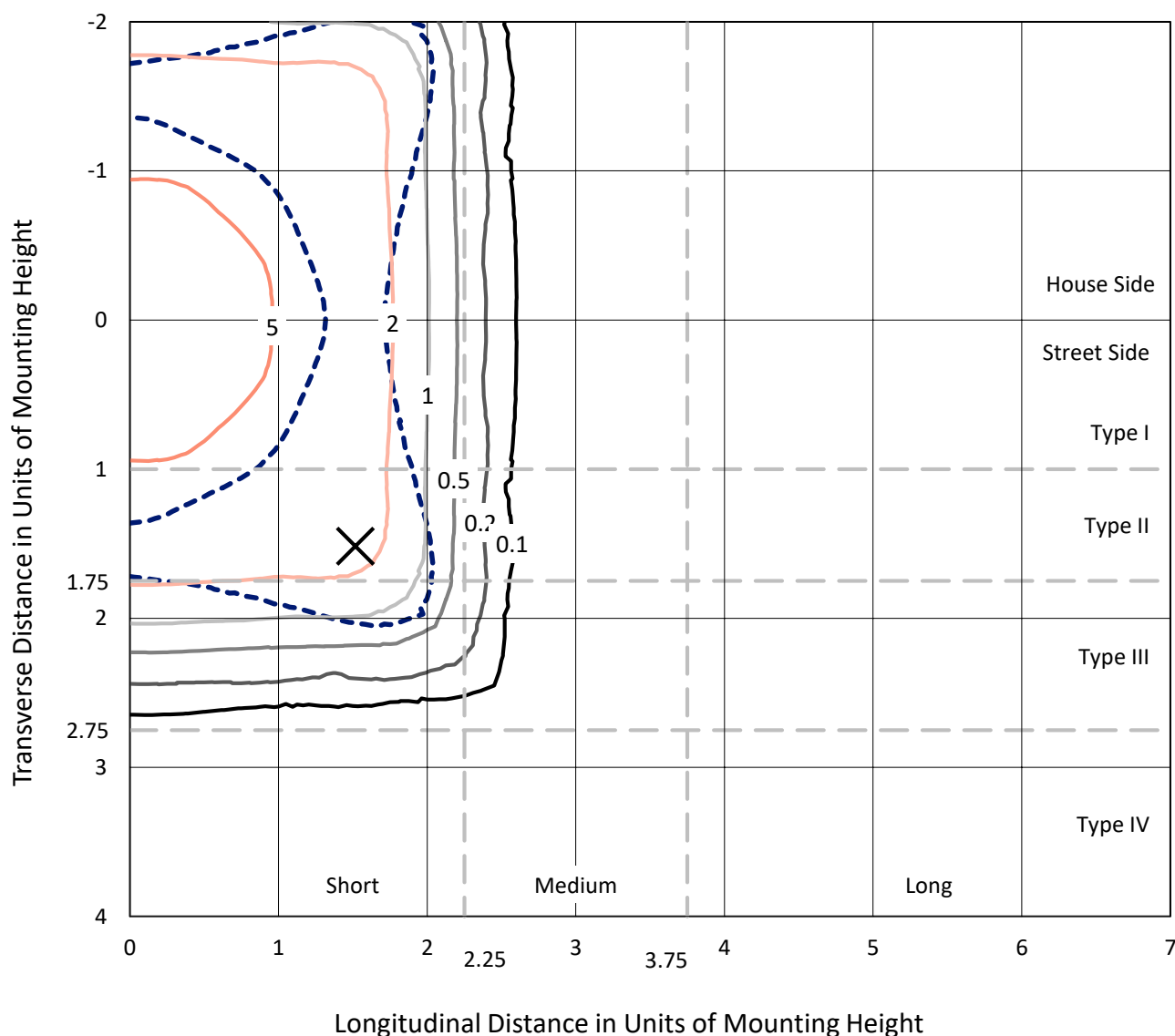


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

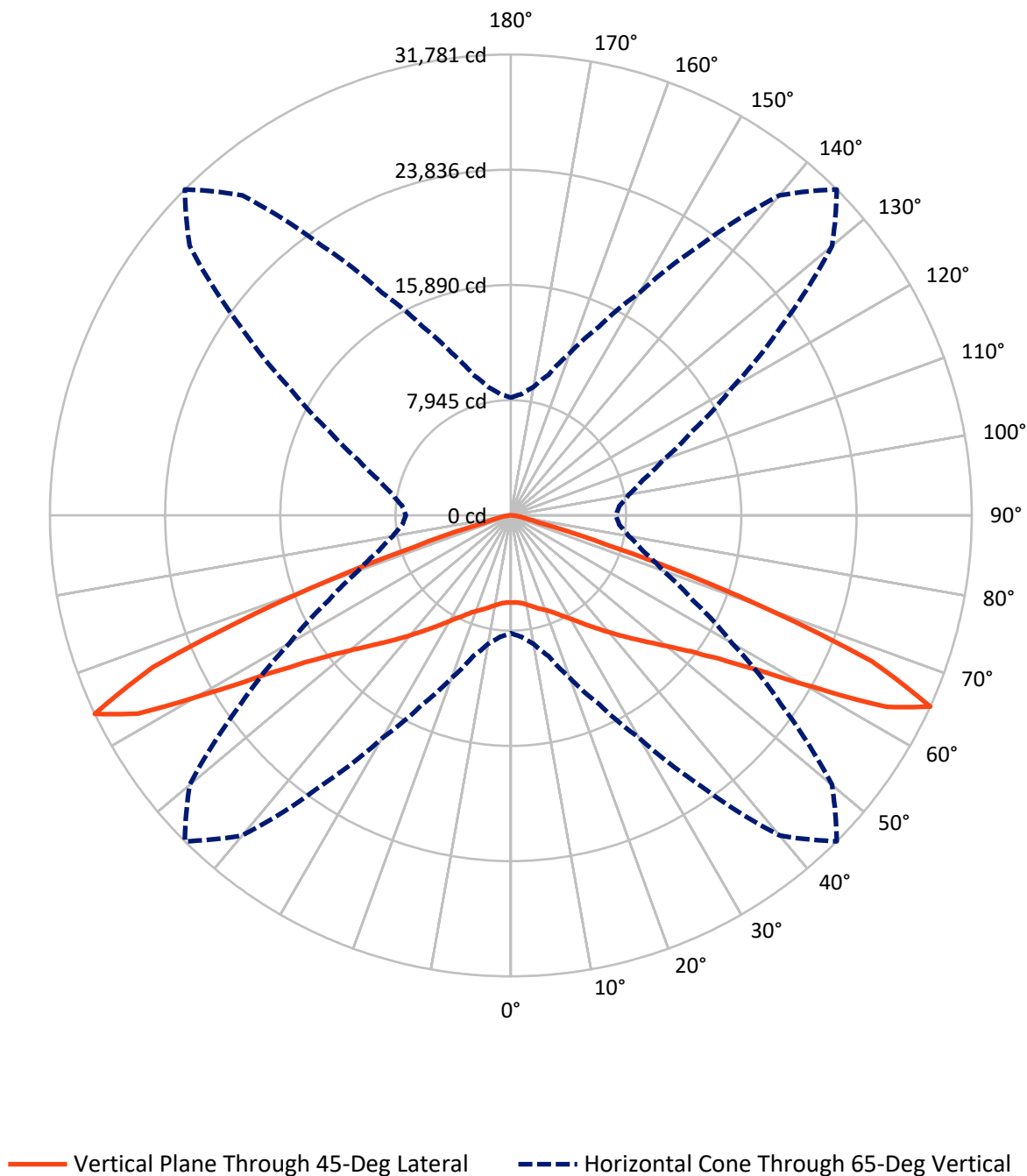


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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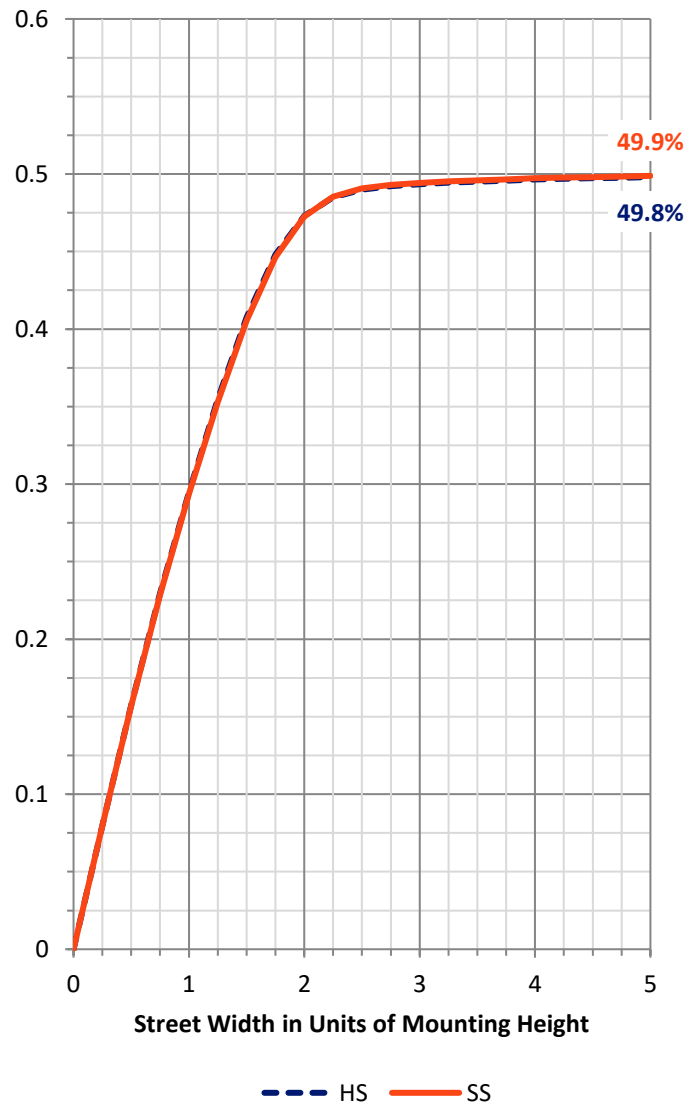
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26544.5	0.0	26544.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26544.5	0.0	26544.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53089.1	0.0	53089.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.5	1.1
10°-20°	1877.8	3.5
20°-30°	3511.1	6.6
30°-40°	5938.3	11.2
40°-50°	9709.7	18.3
50°-60°	15439.9	29.1
60°-70°	13956.7	26.3
70°-80°	1766.3	3.3
80°-90°	303.8	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°	53089.1	100.0
0°-180°	53089.1	100.0

Coefficient of Utilization



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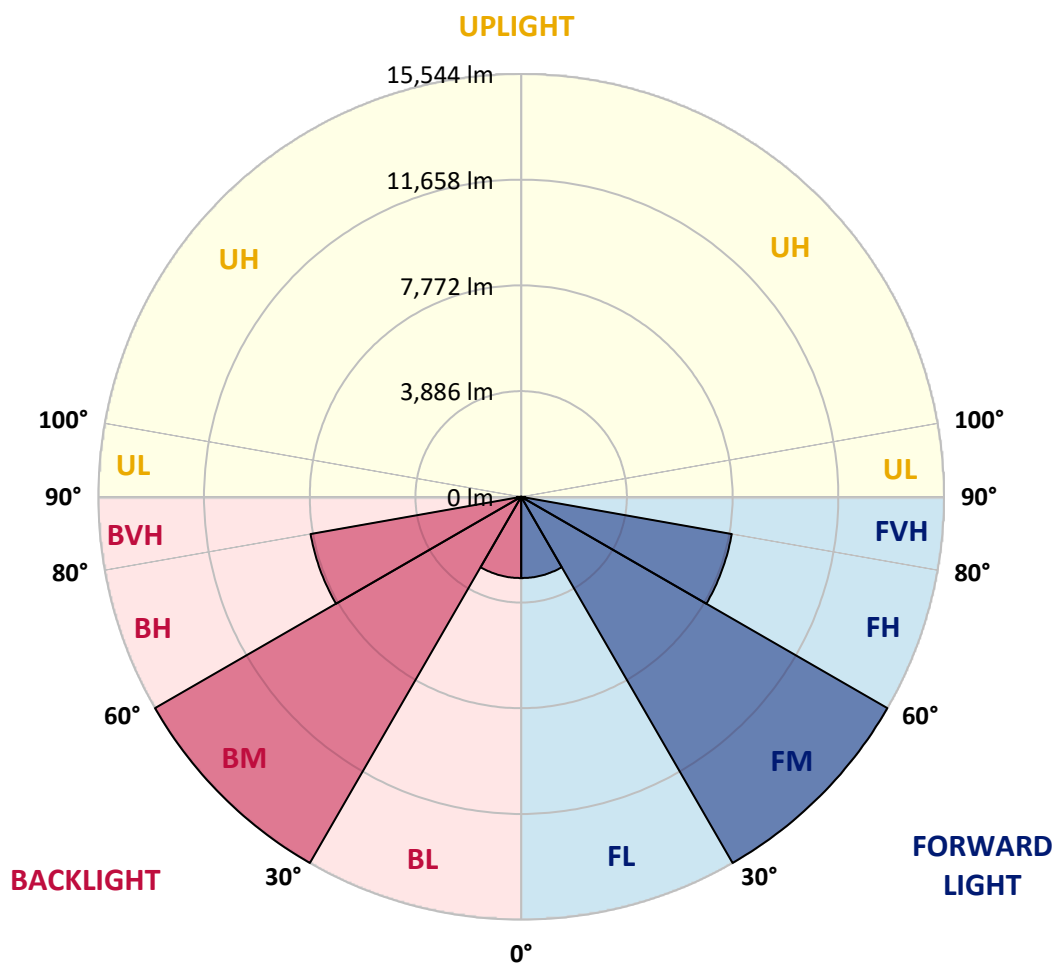
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2987.2	5.6			
FM	(30°-60°)	15543.9	29.3			
FH	(60°-80°)	7861.5	14.8			G4/12000
FVH	(80°-90°)	151.9	0.3			G2/225
BL	(0°-30°)	2987.2	5.6	B4/5000		
BM	(30°-60°)	15543.9	29.3	B5		
BH	(60°-80°)	7861.5	14.8	B5		G4/12000
BVH	(80°-90°)	151.9	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	6007.1	6007.1	6007.1	6007.1	6007.1	6007.1	6007.1	6007.1	6007.1	6007.1	6007.1
2.5°	6012.0	6017.0	6022.0	6017.0	6022.0	6014.5	6009.6	6017.0	6009.6	6002.0	6007.1
5°	6064.2	6066.7	6066.7	6059.3	6066.7	6061.7	6054.3	6064.2	6056.8	6049.3	6054.3
7.5°	6151.3	6161.2	6153.7	6146.3	6151.3	6146.3	6141.4	6143.7	6141.4	6133.9	6136.3
10°	6268.1	6275.7	6270.6	6268.1	6273.1	6270.6	6265.7	6263.2	6265.7	6258.2	6258.2
12.5°	6409.8	6407.4	6404.9	6407.4	6414.8	6414.8	6412.3	6414.8	6419.7	6422.3	6417.4
15°	6549.1	6554.0	6554.0	6554.0	6569.0	6581.4	6588.9	6593.8	6603.7	6606.3	6596.3
17.5°	6723.2	6723.2	6720.6	6723.2	6738.0	6757.9	6765.5	6775.3	6785.3	6792.7	6780.3
20°	6917.1	6922.0	6922.0	6927.0	6946.9	6969.3	6969.3	6974.2	6969.3	6974.2	6966.8
22.5°	7153.3	7168.2	7168.2	7170.6	7190.6	7217.8	7210.4	7217.8	7205.5	7215.5	7205.5
25°	7461.6	7483.9	7479.1	7479.1	7493.9	7511.3	7513.8	7528.7	7526.3	7538.7	7531.2
27.5°	7809.7	7844.5	7854.4	7851.9	7861.9	7879.3	7884.2	7901.6	7891.7	7901.6	7896.7
30°	8227.3	8242.3	8262.1	8269.7	8282.1	8299.5	8299.5	8301.9	8289.5	8304.5	8311.9
32.5°	8660.0	8687.3	8707.2	8752.0	8774.4	8786.8	8784.3	8789.3	8776.9	8796.8	8811.6
35°	9231.9	9251.7	9284.1	9318.9	9348.8	9346.2	9338.8	9341.2	9341.2	9358.7	9373.6
37.5°	9920.6	9925.5	9967.8	10017.6	10032.5	10017.6	9972.8	9963.0	9940.5	9963.0	9987.7
40°	10649.1	10666.6	10751.0	10783.4	10790.8	10763.4	10698.7	10661.5	10611.8	10639.1	10674.0
42.5°	11412.4	11447.2	11524.3	11581.5	11606.4	11588.9	11499.4	11442.2	11377.6	11392.6	11427.3
45°	12257.8	12300.1	12409.4	12464.2	12511.4	12484.1	12397.0	12310.0	12208.1	12215.5	12270.3
47.5°	13202.6	13244.9	13386.6	13478.6	13503.5	13498.4	13401.5	13282.2	13142.9	13138.0	13185.2
50°	14261.8	14304.0	14480.5	14622.2	14694.4	14686.9	14572.6	14403.5	14234.4	14236.9	14296.6
52.5°	15296.1	15348.3	15532.3	15776.0	15917.7	16019.7	15950.0	15790.9	15584.5	15589.5	15644.2
55°	16265.8	16352.9	16564.1	16894.9	17158.4	17444.4	17526.4	17521.4	17397.2	17431.9	17486.6
57.5°	16735.7	16865.0	17190.8	17712.9	18249.9	18831.7	19324.0	19692.1	19848.7	20084.8	20030.2
60°	15845.7	16052.0	16531.8	17300.1	18361.8	19575.1	20875.5	22146.1	23230.1	24048.1	23578.1
62.5°	12973.9	13242.3	13824.1	14808.8	16415.0	18356.8	20845.7	23849.2	27121.3	29095.4	27685.6
65°	8118.0	8396.5	8988.2	10042.4	11922.2	14336.4	17712.9	22690.5	28804.6	31780.7	28911.4
67.5°	3165.1	3316.8	3637.6	4311.4	5723.6	7871.8	11260.7	16909.7	24222.1	26830.4	23772.1
70°	1586.3	1601.2	1660.8	1785.2	2088.6	2712.6	4127.4	7839.5	13891.3	16778.0	13391.6
72.5°	1146.2	1148.8	1178.6	1233.2	1330.2	1469.4	1738.0	2399.4	4517.8	6904.6	4234.3
75°	877.7	887.6	905.0	934.8	987.0	1056.7	1153.7	1382.4	1713.0	1986.6	1670.8
77.5°	676.4	696.2	708.6	736.0	768.3	815.5	842.8	929.9	1081.5	1138.8	1121.3
80°	514.7	532.1	559.4	581.8	604.2	626.6	616.7	656.4	736.0	783.2	758.4
82.5°	328.3	348.1	427.6	447.5	457.5	472.4	454.9	457.5	492.3	522.1	492.3
85°	211.3	223.8	271.0	295.9	298.4	308.3	300.9	283.4	283.4	258.6	290.9
87.5°	97.0	99.4	121.9	144.2	149.1	134.3	131.7	126.8	101.9	97.0	104.5
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°	6007.1	6007.1	6007.1	6007.1	6007.1	6007.1	6007.1	6007.1
2.5°	6004.6	6009.6	6012.0	6019.5	6022.0	6022.0	6024.4	6029.5
5°	6051.8	6059.3	6061.7	6071.7	6074.2	6071.7	6076.7	6079.1
7.5°	6136.3	6148.8	6153.7	6163.8	6156.2	6166.1	6168.7	6168.7
10°	6260.7	6273.1	6275.7	6285.5	6280.6	6285.5	6285.5	6280.6
12.5°	6424.8	6427.2	6419.7	6427.2	6417.4	6422.3	6414.8	6409.8
15°	6606.3	6598.8	6581.4	6581.4	6566.5	6569.0	6566.5	6564.0
17.5°	6782.9	6767.8	6755.5	6750.5	6738.0	6735.7	6728.0	6728.0
20°	6976.7	6969.3	6961.8	6951.8	6939.5	6927.0	6924.6	6929.6
22.5°	7210.4	7208.0	7208.0	7203.0	7185.6	7173.2	7165.7	7165.7
25°	7523.7	7501.4	7501.4	7498.9	7491.5	7483.9	7469.1	7476.5
27.5°	7876.8	7864.4	7874.4	7871.8	7864.4	7864.4	7854.4	7854.4
30°	8311.9	8307.0	8321.8	8309.3	8284.6	8282.1	8272.1	8259.7
32.5°	8814.2	8809.1	8831.5	8816.6	8776.9	8754.5	8734.6	8724.7
35°	9373.6	9376.1	9403.4	9393.4	9348.8	9333.8	9299.0	9294.0
37.5°	9985.2	10025.0	10072.3	10082.2	10044.9	10034.9	9997.7	9977.8
40°	10703.8	10756.0	10828.1	10845.5	10805.7	10798.3	10746.0	10718.8
42.5°	11469.6	11559.1	11648.5	11663.5	11623.8	11584.0	11534.3	11514.4
45°	12324.9	12431.8	12548.7	12578.5	12518.8	12471.6	12406.9	12406.9
47.5°	13284.7	13418.9	13550.7	13632.8	13578.0	13528.3	13451.2	13401.5
50°	14418.4	14602.4	14773.9	14858.5	14771.6	14677.1	14542.7	14497.9
52.5°	15840.6	16039.6	16188.7	16143.9	16009.6	15877.9	15731.2	15671.6
55°	17655.6	17722.8	17722.8	17553.7	17285.3	17063.9	16832.7	16755.6
57.5°	19925.7	19667.1	19269.3	18764.6	18130.6	17578.6	17205.6	17029.1
60°	22593.6	21350.5	19945.6	18565.7	17431.9	16497.0	15942.6	15689.0
62.5°	24371.4	21119.2	18304.6	16089.3	14458.2	13332.0	12566.1	12267.7
65°	22777.6	17613.3	13844.1	11193.6	9415.9	8269.7	7511.3	7232.9
67.5°	16683.6	11037.0	7372.0	5283.6	3871.3	3088.1	2777.3	2648.0
70°	7488.9	3886.3	2382.0	1859.8	1603.7	1471.9	1414.7	1394.8
72.5°	2257.7	1633.5	1377.4	1243.2	1141.2	1076.6	1029.3	1024.5
75°	1362.6	1133.8	1007.0	927.4	862.8	810.6	785.7	778.3
77.5°	952.3	832.9	773.2	716.0	666.4	626.6	604.2	586.8
80°	668.8	611.7	584.3	552.0	519.6	482.4	450.0	435.1
82.5°	447.5	435.1	435.1	415.1	387.9	353.0	288.5	273.4
85°	288.5	285.9	290.9	283.4	263.6	226.2	186.5	176.6
87.5°	134.3	136.8	151.7	149.1	144.2	119.3	94.5	89.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)