

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: P193675

Luminaire Tested: **GAN-AF-07-LED-U-SL3-8030-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-8030-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29351 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 391
Input Voltage (V): NR
Input Current (A_{in}): 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

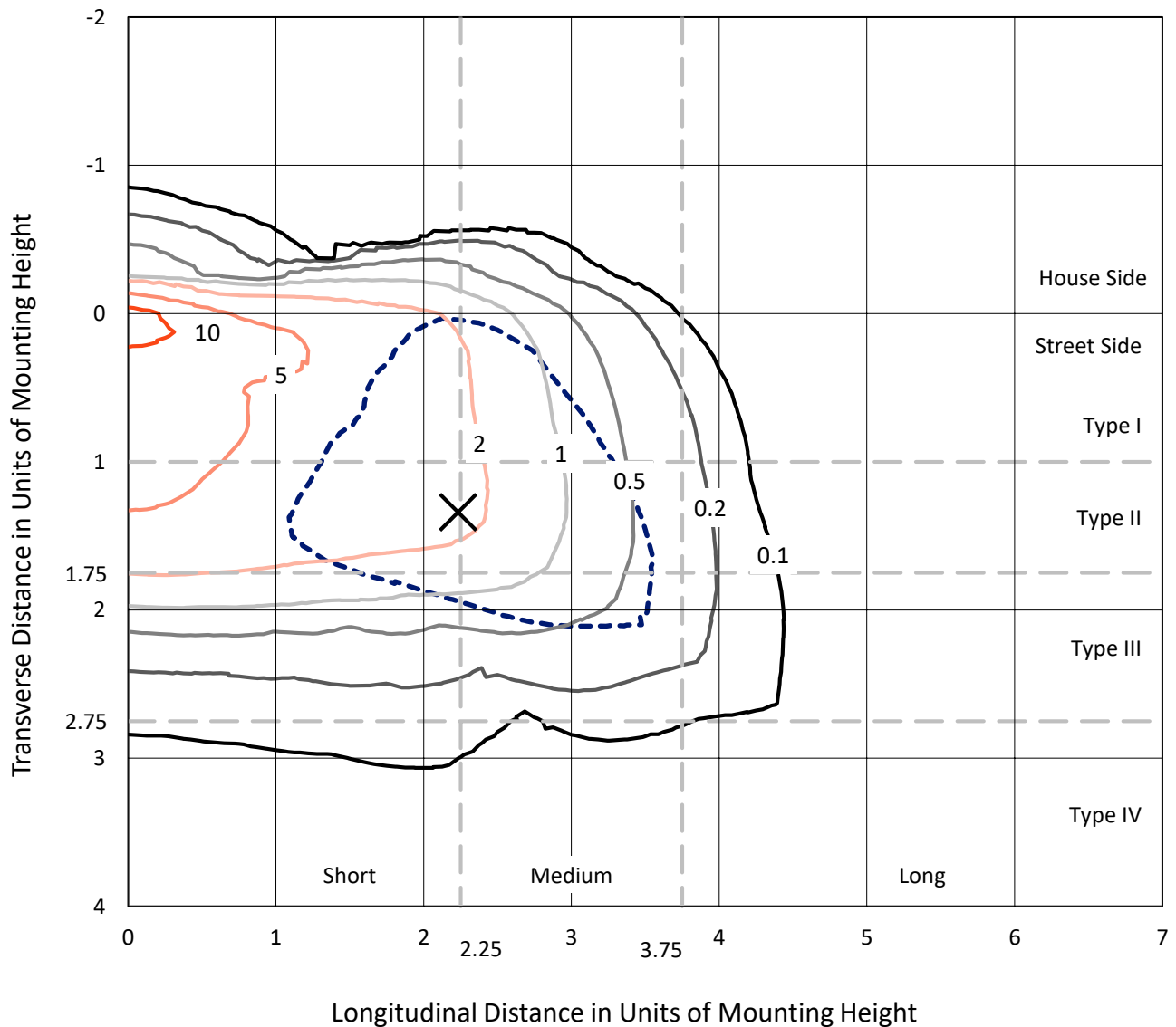


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

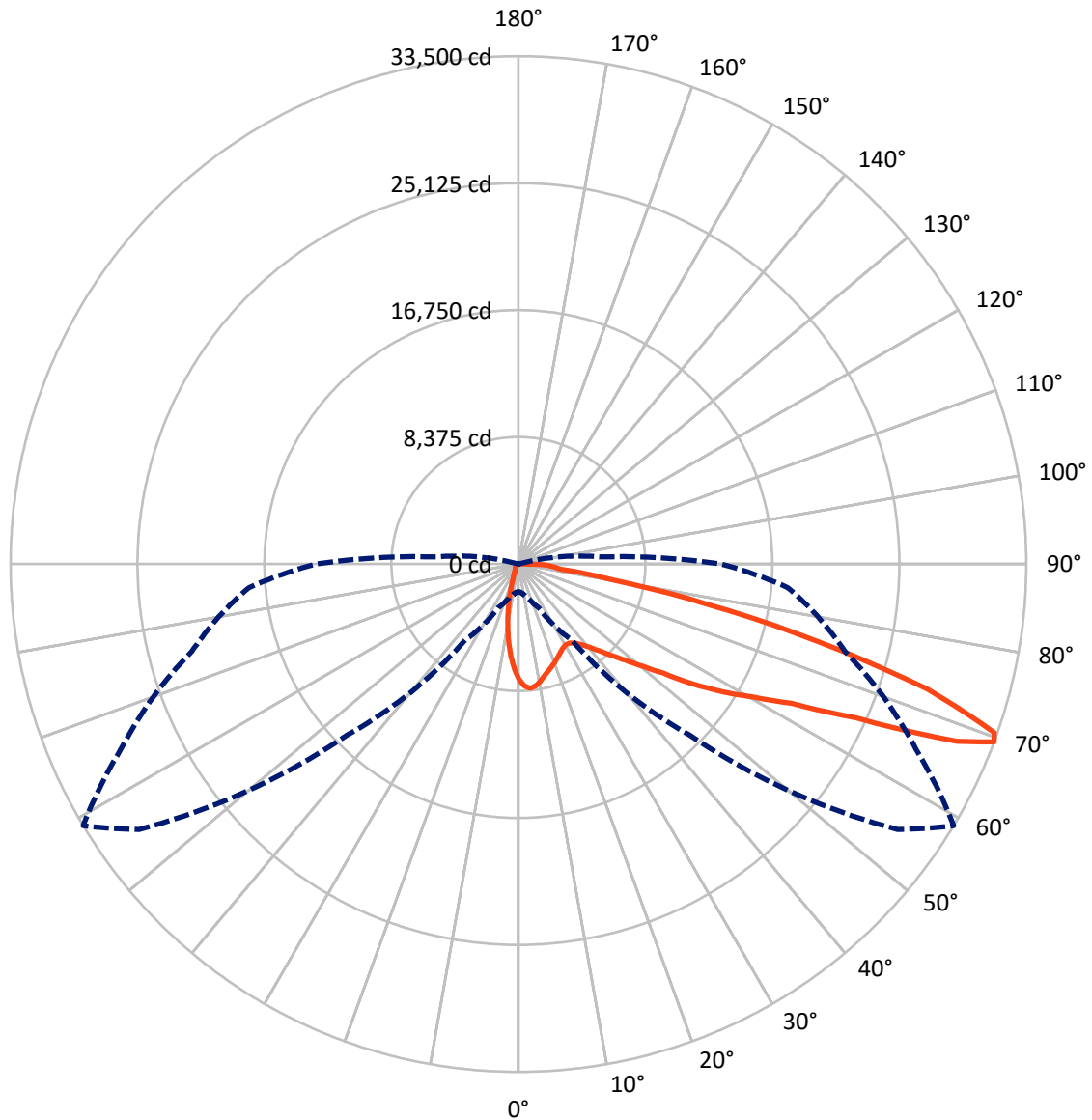


Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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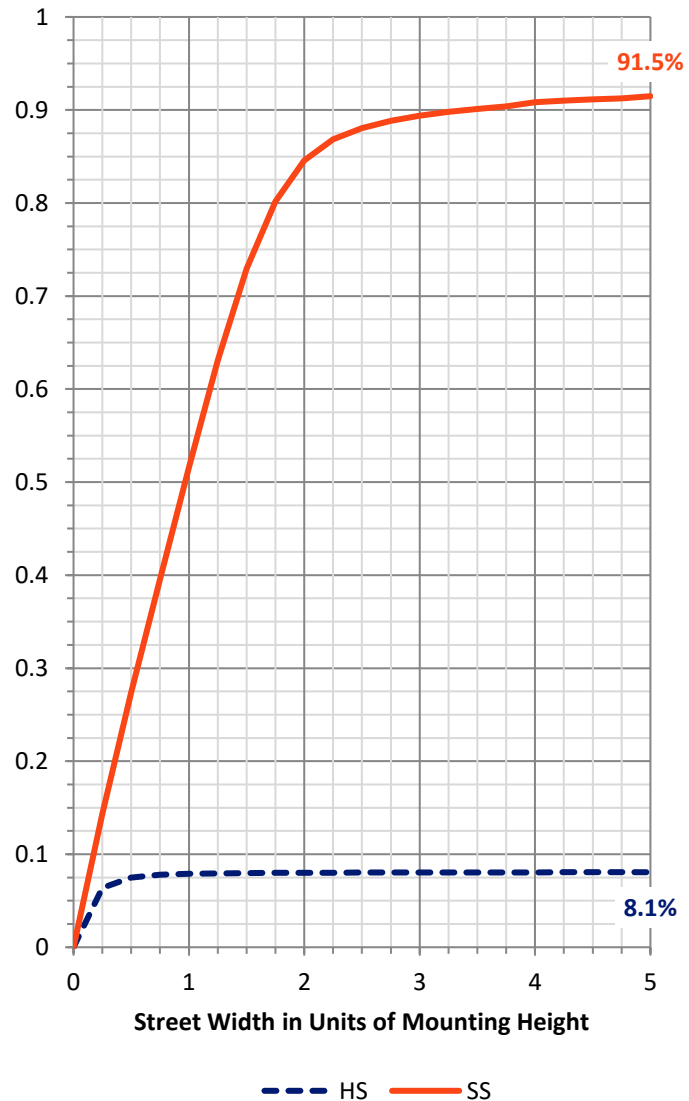
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2390.3	0.0	2390.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	26960.7	0.0	26960.7
	% Fixture	91.9	0.0	91.9
Total	Lumens	29351.0	0.0	29351.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.1	2.1
10°-20°	1281.3	4.4
20°-30°	1724.2	5.9
30°-40°	2503.4	8.5
40°-50°	4168.4	14.2
50°-60°	6502.6	22.2
60°-70°	8046.4	27.4
70°-80°	4077.9	13.9
80°-90°	426.7	1.5
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°	29351.0	100.0
0°-180°	29351.0	100.0



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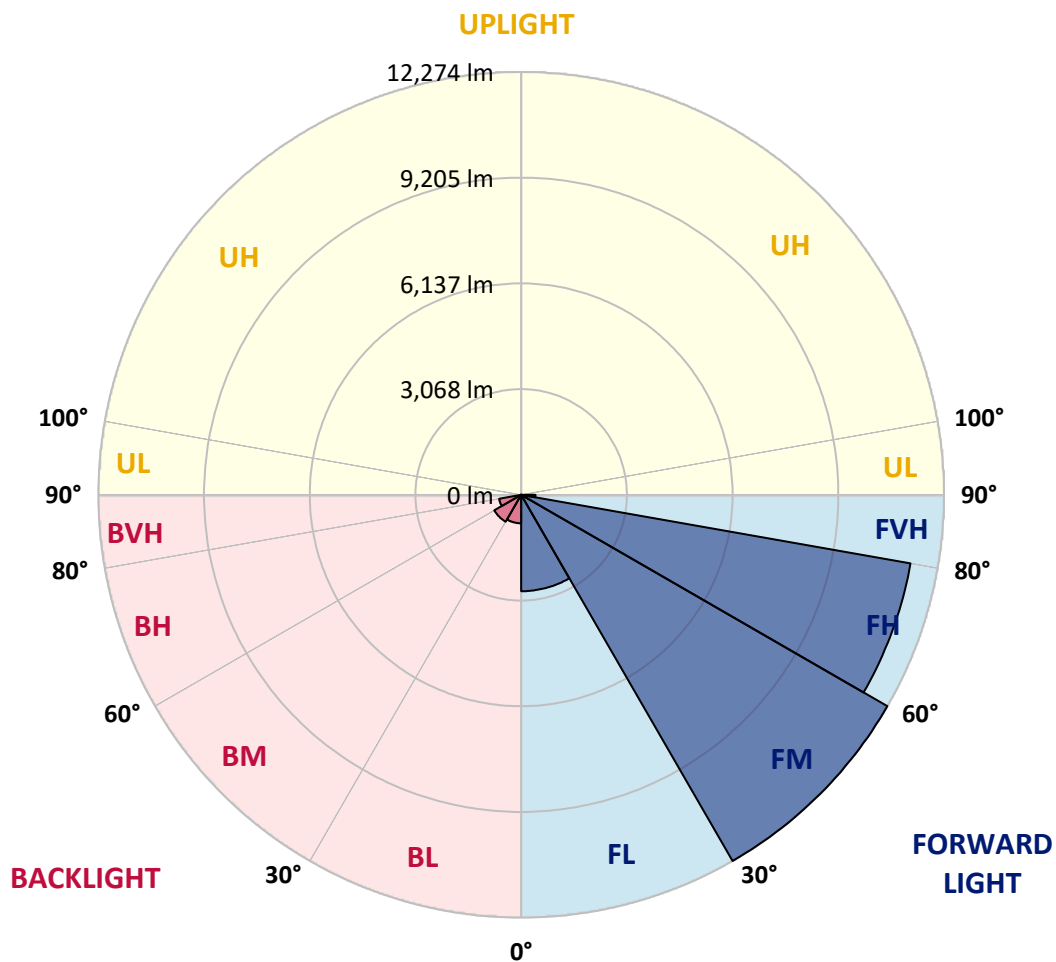
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2798.3	9.5			
FM (30°-60°)	12273.7	41.8			
FH (60°-80°)	11475.2	39.1			G4/12000
FVH (80°-90°)	413.6	1.4			G3/500
BL (0°-30°)	827.3	2.8	B2/1000		
BM (30°-60°)	900.6	3.1	B1/1000		
BH (60°-80°)	649.1	2.2	B2/1000		G2/1000
BVH (80°-90°)	13.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7
2.5°	8373.3	8369.9	8333.4	8316.8	8286.9	8223.9	8126.0	8074.5	7991.5	7847.1	7652.9
5°	8296.9	8336.7	8358.3	8360.0	8381.6	8358.3	8270.4	8227.2	8112.7	7880.3	7531.8
7.5°	7779.1	7794.0	7855.4	7908.5	8011.4	8109.4	8140.9	8122.6	8054.6	7805.6	7342.6
10°	7224.7	7239.7	7312.7	7382.4	7521.8	7672.9	7832.2	7865.4	7893.6	7699.4	7160.0
12.5°	6746.7	6761.7	6836.4	6927.6	7090.3	7276.2	7523.5	7578.3	7702.7	7598.2	7013.9
15°	6335.1	6341.8	6414.8	6527.7	6721.8	6960.8	7241.3	7329.3	7520.2	7526.8	6886.1
17.5°	5984.9	6001.5	6046.3	6154.2	6366.7	6662.1	6989.1	7115.2	7339.3	7467.0	6761.7
20°	5770.8	5787.4	5785.8	5845.5	6036.4	6351.7	6736.8	6887.8	7160.0	7405.6	6650.5
22.5°	5729.3	5729.3	5686.2	5677.9	5790.7	6054.6	6474.5	6658.8	6999.0	7379.1	6572.5
25°	5877.0	5870.4	5762.5	5674.6	5679.5	5837.2	6220.6	6439.7	6862.9	7397.3	6531.0
27.5°	6189.1	6180.8	6044.7	5877.0	5742.6	5740.9	6028.1	6263.8	6755.0	7483.6	6547.6
30°	6620.6	6617.3	6469.6	6258.8	6014.8	5790.7	5961.7	6175.8	6685.3	7639.7	6585.7
32.5°	7092.0	7087.0	6975.8	6753.4	6444.7	6014.8	6031.4	6210.6	6705.2	7847.1	6678.7
35°	7591.5	7583.2	7535.1	7340.9	7000.7	6428.1	6260.4	6399.9	6831.4	8157.5	6861.3
37.5°	8132.6	8140.9	8175.7	7989.9	7633.0	7007.3	6643.8	6738.4	7085.3	8579.1	7158.3
40°	8930.9	8929.3	8940.9	8696.9	8353.3	7716.0	7179.9	7209.8	7510.2	9138.4	7609.8
42.5°	10379.8	10278.6	9971.6	9473.6	9128.4	8525.9	7855.4	7823.9	8029.7	9830.5	8242.1
45°	12326.7	12110.9	11314.3	10359.9	9918.4	9438.8	8686.9	8585.7	8716.8	10662.0	9022.2
47.5°	14001.3	13777.3	12650.3	11282.7	10756.6	10305.2	9661.2	9478.6	9521.8	11593.1	10011.4
50°	14570.6	14461.1	13476.9	12086.0	11568.2	11395.6	10791.5	10569.1	10507.6	12670.2	11158.3
52.5°	14373.1	14364.8	13709.2	12607.2	12311.8	12524.2	12213.8	11956.6	11730.9	13805.5	12325.0
55°	14056.1	14097.6	13803.8	13063.6	13053.6	13554.9	14159.0	13944.9	13291.0	15038.7	13330.8
57.5°	13181.4	13359.0	13750.7	13926.7	14334.9	14847.8	15778.9	15905.0	15131.6	15983.0	14165.7
60°	10695.2	11085.2	12366.5	14051.1	15986.4	17264.3	17734.0	17841.9	16641.9	16768.1	15292.6
62.5°	7591.5	7989.9	9614.7	12464.4	16011.3	20439.4	20646.8	20223.6	18305.0	17931.5	17236.1
65°	4029.8	4336.8	5664.6	8997.3	13881.8	21176.3	25740.5	24479.1	21239.3	20220.3	19747.3
67.5°	2061.4	2154.3	2682.1	4403.2	9543.4	18809.5	30306.4	31194.3	26296.5	22490.8	19626.1
69°	1824.0	1878.8	2229.0	3183.3	6111.1	15931.6	30528.8	33499.6	28943.7	22301.6	17835.3
70°	1765.9	1814.1	2132.7	2881.3	4776.7	13360.7	29677.3	33297.2	29620.9	21581.2	16497.5
72.5°	1498.7	1540.2	1898.7	2546.0	3882.1	6632.2	24107.3	28215.1	26580.3	17978.0	11941.6
75°	1002.5	1138.6	1822.4	2386.7	3611.5	3767.5	15893.4	20389.6	18940.6	12125.9	6220.6
77.5°	240.7	258.9	514.5	1898.7	3302.8	3316.1	8174.1	12675.2	10338.4	4321.9	1470.5
80°	129.5	124.5	144.4	376.8	3075.4	3112.0	3679.6	6152.6	3691.2	717.0	484.6
82.5°	91.3	86.3	92.9	157.7	967.6	2834.8	2662.2	2785.0	1530.3	275.5	217.4
85°	33.2	31.5	51.5	142.7	303.7	1629.8	2735.2	2297.0	1239.8	126.1	159.3
87.5°	11.6	10.0	19.9	78.0	92.9	693.8	1687.9	1736.1	488.0	76.3	74.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7	7639.7
2.5°	7571.6	7468.7	7279.5	7085.3	6906.1	6690.3	6582.4	6476.2	6431.4	6414.8	6336.8
5°	7352.5	7178.3	6776.6	6373.3	6001.5	5606.5	5345.9	5136.8	5014.0	4954.2	4859.6
7.5°	7072.0	6786.6	6177.5	5555.1	4975.8	4404.9	3981.7	3656.3	3432.3	3324.4	3226.5
10°	6799.8	6419.8	5553.4	4705.3	3918.6	3161.8	2577.5	2154.3	1883.8	1759.3	1679.6
12.5°	6555.9	6062.9	4950.9	3877.1	2889.6	2003.3	1409.1	1072.2	904.5	846.5	818.2
15°	6338.4	5734.3	4381.6	3090.4	1956.8	1145.2	770.1	655.6	629.0	629.0	625.7
17.5°	6132.6	5412.3	3832.3	2351.8	1228.2	700.4	585.9	570.9	570.9	577.6	577.6
20°	5935.1	5105.3	3301.2	1687.9	773.4	556.0	529.4	526.1	529.4	537.7	537.7
22.5°	5765.8	4826.4	2804.9	1158.5	574.3	501.2	488.0	483.0	484.6	489.6	492.9
25°	5639.7	4590.8	2336.9	785.0	494.6	456.4	441.5	433.2	426.5	426.5	429.9
27.5°	5560.0	4391.6	1883.8	570.9	444.8	414.9	391.7	378.4	363.5	355.2	358.5
30°	5501.9	4202.4	1458.9	466.4	398.3	368.5	338.6	317.0	295.4	285.5	288.8
32.5°	5480.4	4049.7	1090.4	411.6	356.8	323.6	287.1	258.9	235.7	227.4	229.0
35°	5538.5	3928.5	798.3	371.8	323.6	282.2	240.7	209.1	190.9	185.9	187.5
37.5°	5691.2	3863.8	597.5	338.6	293.8	247.3	200.8	171.0	159.3	159.3	161.0
40°	5979.9	3862.2	479.7	315.3	267.2	214.1	166.0	144.4	137.8	141.1	142.7
42.5°	6401.5	3950.1	418.2	293.8	244.0	182.6	137.8	122.8	121.2	124.5	126.1
45°	6977.4	4111.1	385.1	275.5	219.1	152.7	116.2	106.2	106.2	111.2	112.9
47.5°	7682.8	4346.8	356.8	257.3	194.2	127.8	99.6	92.9	94.6	99.6	101.2
50°	8532.6	4643.9	328.6	237.3	175.9	106.2	86.3	81.3	83.0	89.6	91.3
52.5°	9500.2	5043.9	305.4	219.1	152.7	88.0	73.0	69.7	73.0	79.7	81.3
55°	10330.1	5402.4	277.2	204.1	122.8	73.0	59.7	59.7	63.1	71.4	73.0
57.5°	11128.4	5777.5	252.3	175.9	96.3	58.1	49.8	51.5	56.4	64.7	66.4
60°	12300.1	6413.1	222.4	147.7	73.0	46.5	41.5	43.2	49.8	58.1	59.7
62.5°	14290.1	7380.7	192.5	122.8	56.4	36.5	33.2	36.5	44.8	54.8	56.4
65°	16085.9	7774.1	157.7	102.9	43.2	28.2	28.2	33.2	43.2	53.1	54.8
67.5°	15085.1	6544.2	122.8	81.3	33.2	21.6	23.2	31.5	41.5	53.1	54.8
69°	13340.8	5350.9	104.6	64.7	28.2	19.9	21.6	31.5	41.5	51.5	53.1
70°	11981.5	4517.7	92.9	54.8	24.9	19.9	21.6	29.9	41.5	51.5	53.1
72.5°	8024.7	2439.8	74.7	39.8	23.2	18.3	18.3	29.9	39.8	49.8	51.5
75°	3448.9	673.8	59.7	28.2	19.9	16.6	16.6	28.2	38.2	48.1	51.5
77.5°	630.7	171.0	48.1	24.9	19.9	16.6	14.9	26.6	36.5	46.5	48.1
80°	250.6	84.6	38.2	21.6	18.3	14.9	13.3	24.9	34.9	44.8	46.5
82.5°	151.0	48.1	31.5	19.9	18.3	13.3	11.6	21.6	33.2	43.2	44.8
85°	122.8	33.2	24.9	19.9	16.6	13.3	10.0	19.9	29.9	41.5	43.2
87.5°	59.7	23.2	23.2	18.3	16.6	13.3	10.0	18.3	28.2	39.8	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)