

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: P192015

Luminaire Tested: **GAN-AF-07-LED-U-SL4-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34171 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

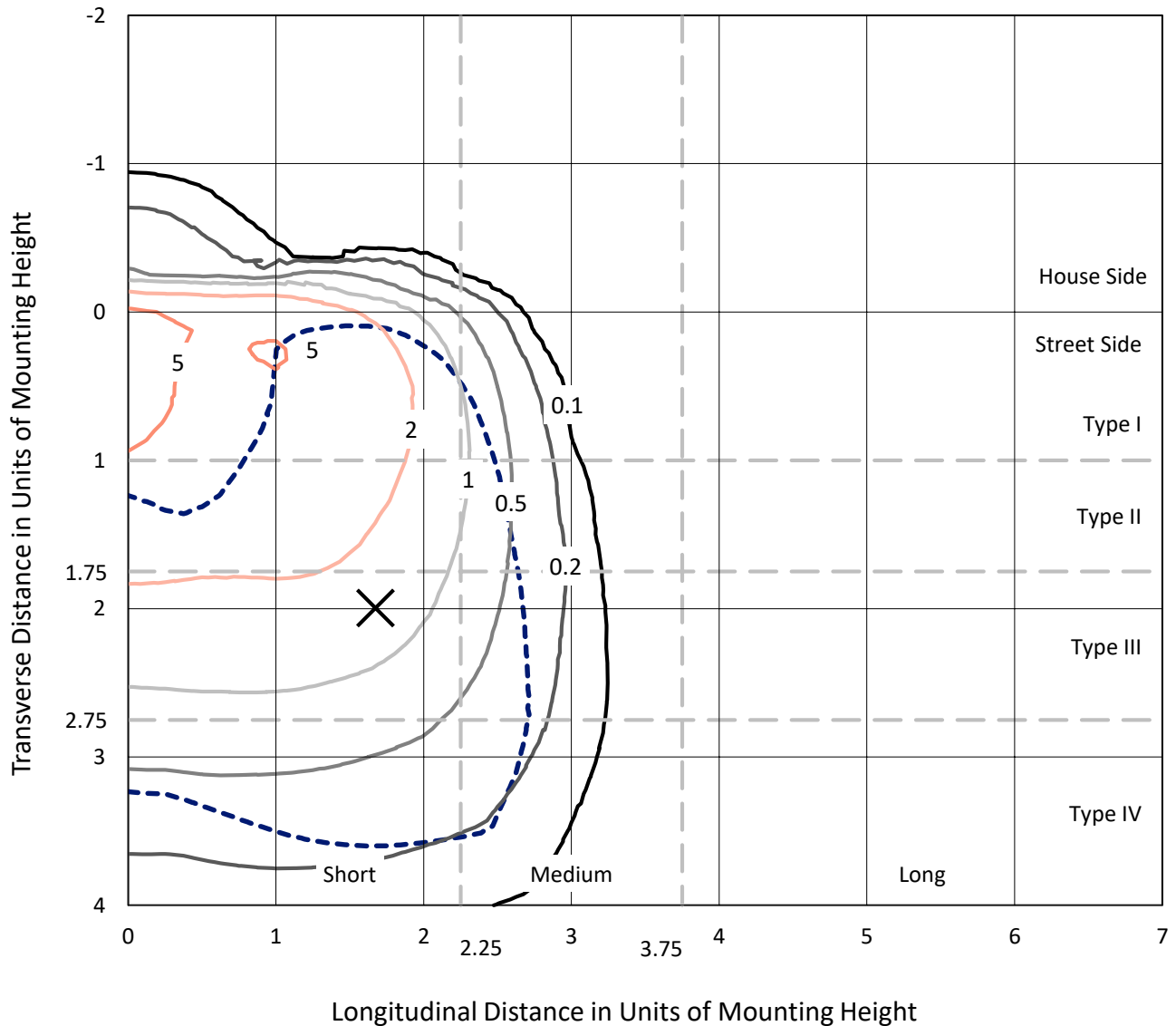
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

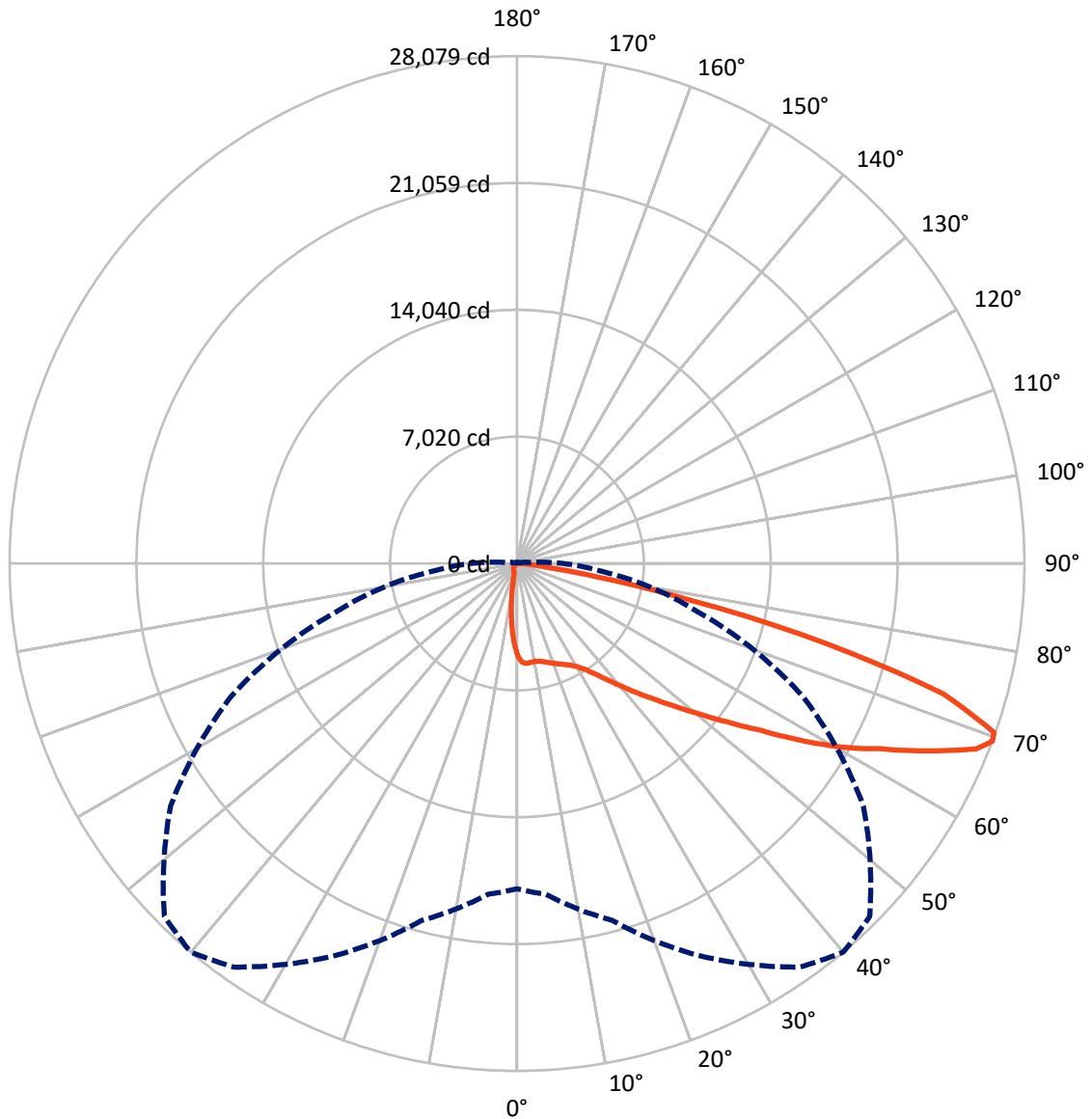
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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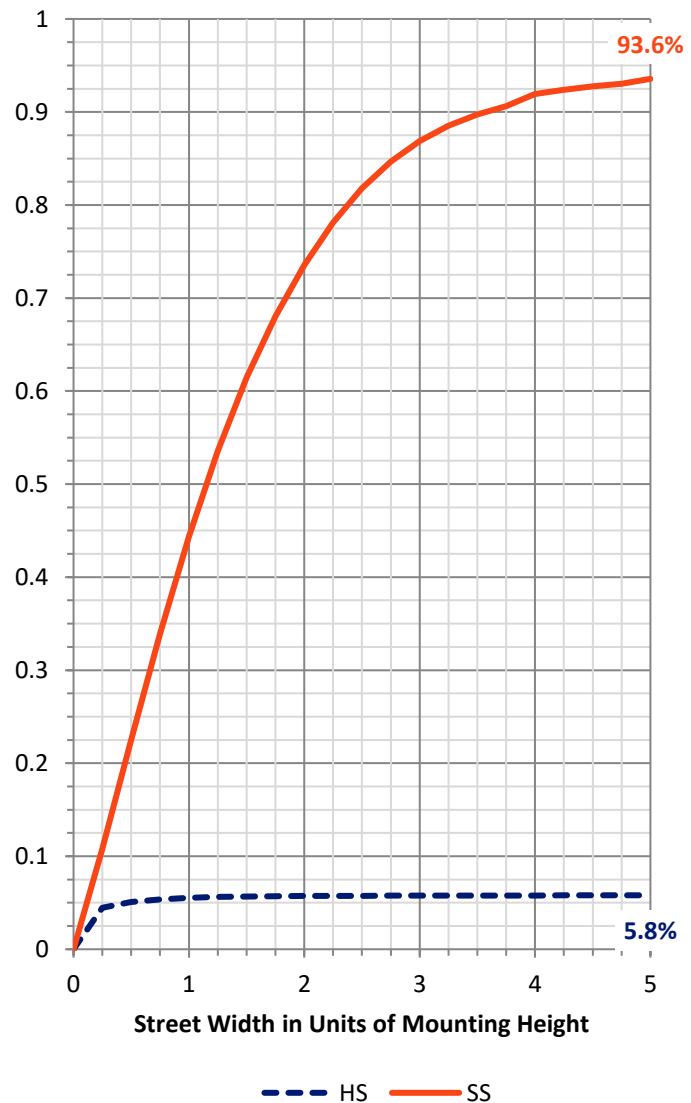
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1999.2	0.0	1999.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	32171.8	0.0	32171.8
	% Fixture	94.1	0.0	94.1
Total	Lumens	34171.0	0.0	34171.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.9	1.2
10°-20°	1018.0	3.0
20°-30°	1714.6	5.0
30°-40°	2806.8	8.2
40°-50°	4860.0	14.2
50°-60°	7654.9	22.4
60°-70°	9997.0	29.3
70°-80°	5148.9	15.1
80°-90°	557.0	1.6
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°	34171.0	100.0
0°-180°	34171.0	100.0

Coefficient of Utilization



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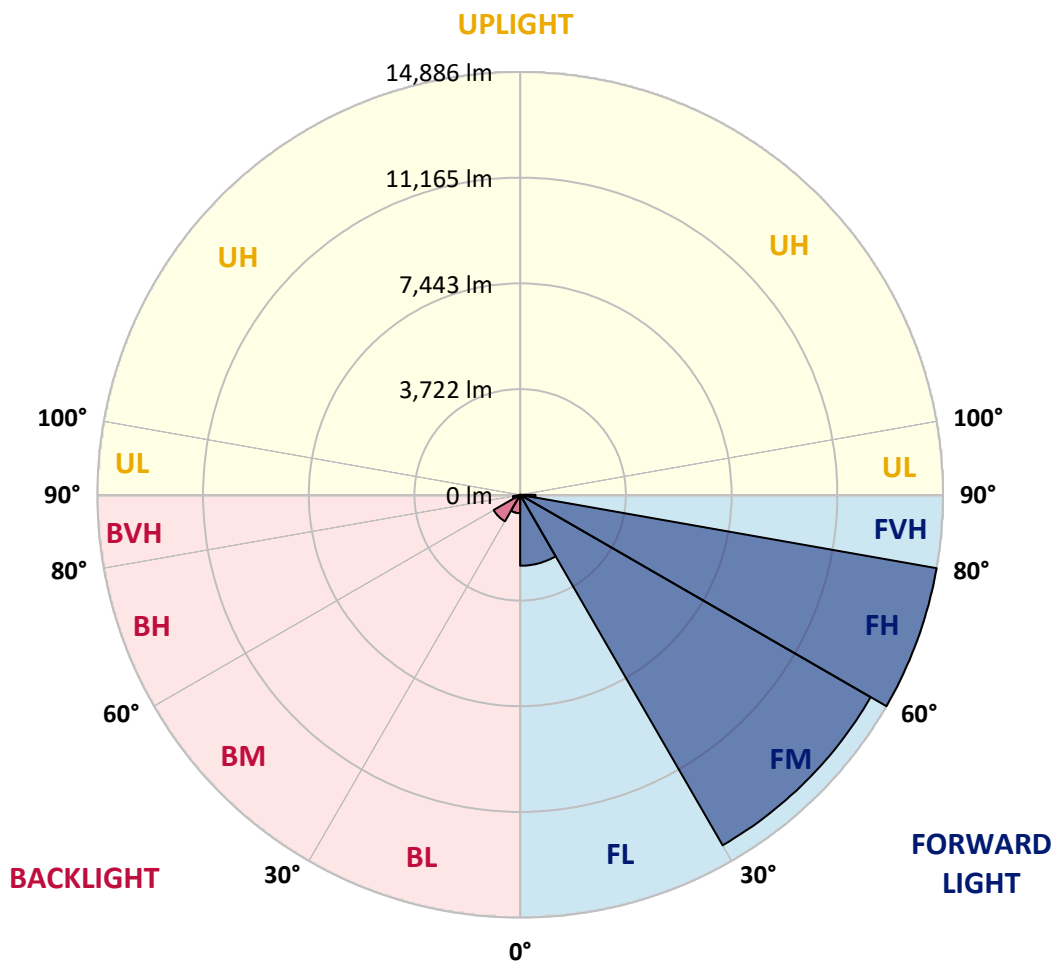
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2498.9	7.3			
FM	(30°-60°)	14247.2	41.7			
FH	(60°-80°)	14886.3	43.6			G5
FVH	(80°-90°)	539.5	1.6			G4/750
BL	(0°-30°)	647.6	1.9	B2/1000		
BM	(30°-60°)	1074.5	3.1	B2/2500		
BH	(60°-80°)	259.6	0.8	B1/500		G1/500
BVH	(80°-90°)	17.5	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3
2.5°	5605.7	5575.2	5556.9	5532.5	5502.0	5475.5	5465.3	5390.1	5318.9	5221.3	5109.4
5°	5709.4	5699.2	5666.7	5634.2	5597.5	5556.9	5534.5	5445.0	5343.3	5200.9	5005.7
7.5°	5719.6	5707.4	5666.7	5622.0	5571.1	5522.3	5483.6	5394.2	5300.6	5156.2	4918.2
10°	5703.3	5689.1	5658.6	5609.8	5546.7	5499.9	5461.3	5375.8	5296.5	5166.3	4901.9
12.5°	5685.0	5670.8	5656.5	5632.1	5577.2	5544.7	5512.1	5430.8	5359.6	5249.7	4960.9
15°	5703.3	5695.2	5711.5	5701.3	5670.8	5642.3	5609.8	5536.5	5471.4	5379.9	5068.7
17.5°	5780.6	5780.6	5831.5	5837.6	5809.1	5768.4	5721.6	5648.4	5593.5	5516.2	5196.9
20°	5961.6	5955.5	6020.6	6032.8	5963.7	5900.6	5831.5	5742.0	5699.2	5650.4	5323.0
22.5°	6272.8	6244.4	6283.0	6270.8	6134.5	6036.9	5951.5	5841.6	5819.3	5796.9	5463.3
25°	6677.6	6661.3	6687.8	6567.8	6327.8	6195.5	6093.8	5969.8	5969.8	5992.1	5622.0
27.5°	7265.4	7204.4	7114.9	6903.4	6543.4	6374.5	6264.7	6132.5	6167.1	6250.5	5831.5
30°	7867.5	7800.4	7594.9	7269.5	6805.7	6628.8	6500.6	6362.3	6443.7	6596.2	6112.1
32.5°	8461.4	8386.2	8095.3	7684.4	7182.0	7005.1	6881.0	6728.4	6864.7	7121.0	6523.0
35°	9037.0	8969.9	8634.3	8150.2	7682.4	7535.9	7422.0	7289.8	7464.8	7822.7	7102.7
37.5°	9683.8	9610.6	9201.8	8677.0	8290.6	8184.8	8101.4	7969.2	8274.3	8799.1	7910.2
40°	10479.1	10355.1	9803.8	9281.1	8994.3	8943.5	8886.5	8868.2	9342.1	10068.3	8986.2
42.5°	11390.4	11187.0	10434.4	9917.8	9767.2	9803.8	9789.6	9871.0	10678.5	11646.6	10296.1
45°	12301.6	12039.2	11136.1	10597.1	10617.4	10745.6	10824.9	11150.4	12352.4	13456.9	11705.6
47.5°	13074.5	12816.2	11809.4	11331.4	11575.5	11827.7	12043.3	12659.6	14073.2	15238.7	12802.0
50°	13735.6	13491.5	12523.3	12138.9	12688.0	13094.8	13444.7	14358.0	15924.1	16595.4	13570.8
52.5°	14276.6	14113.9	13263.7	13064.3	13959.3	14555.3	15067.8	16162.1	17563.5	17697.8	14168.8
55°	14803.4	14687.5	14059.0	14164.7	15452.2	16263.8	16912.7	18076.1	18975.1	18617.1	14742.4
57.5°	15409.5	15303.8	14966.1	15560.0	17415.1	18436.1	19143.9	19772.4	20217.9	19556.8	15283.4
60°	16027.9	15966.8	15975.0	17110.0	19668.7	20649.1	21039.6	21202.3	21438.3	20441.6	15313.9
62.5°	16617.7	16733.7	17128.3	18834.8	21826.8	22579.4	22776.7	22937.3	22660.7	20582.0	14148.5
65°	17616.4	17805.6	18747.3	21143.4	24200.5	25005.9	25209.3	24658.1	22853.9	18767.7	11508.3
67.5°	18104.6	18450.4	20130.4	23295.3	26502.9	27397.9	27322.6	24770.0	20508.8	14311.2	7385.4
69°	18002.9	18371.0	20449.8	23954.3	27267.7	28079.3	27601.3	23401.1	17472.0	10367.3	4533.8
70°	17600.1	17972.4	20285.0	23929.9	27365.3	28008.1	27084.7	21710.8	14772.9	7580.7	2835.4
72.5°	14697.6	15019.0	18009.0	21629.5	25209.3	24686.6	22658.7	15041.4	7198.3	2064.5	638.7
75°	9047.2	9226.2	12922.0	16294.3	19040.2	17697.8	15096.3	7483.1	2145.9	583.8	353.9
77.5°	4779.9	4861.2	7074.2	9604.5	12069.7	9986.9	7737.3	2918.8	988.5	366.1	256.3
80°	2825.2	2886.2	3809.7	4391.4	5223.3	4362.9	3093.7	1791.9	707.8	229.8	227.8
82.5°	1617.0	1655.7	2762.2	2440.8	2058.4	1757.4	1539.7	1698.4	425.1	154.6	235.9
85°	593.9	602.1	1554.0	1857.0	1224.5	728.2	764.8	1407.5	113.9	97.6	185.1
87.5°	276.6	270.5	799.4	1137.0	716.0	461.7	596.0	309.2	44.7	63.1	50.8
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°	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3	5105.3
2.5°	5044.3	4969.0	4832.8	4692.4	4550.0	4440.2	4332.4	4247.0	4218.5	4165.6	4169.7
5°	4889.7	4751.4	4466.6	4177.8	3876.8	3628.6	3394.7	3205.6	3114.0	3020.5	3020.5
7.5°	4755.5	4554.1	4108.7	3638.8	3152.7	2743.9	2375.7	2099.1	1946.5	1824.5	1822.5
10°	4704.6	4432.1	3809.7	3136.4	2459.1	1901.8	1464.5	1183.8	1039.4	945.8	941.7
12.5°	4727.0	4389.4	3579.8	2672.7	1822.5	1222.4	848.2	667.1	606.1	577.7	577.7
15°	4792.1	4377.2	3350.0	2219.1	1287.5	764.8	563.4	514.6	510.5	510.5	510.5
17.5°	4871.4	4381.2	3114.0	1777.7	876.7	547.1	486.1	480.0	484.1	484.1	484.1
20°	4952.8	4383.3	2859.8	1368.9	618.3	476.0	457.6	455.6	459.7	459.7	461.7
22.5°	5052.4	4393.4	2605.5	1023.1	510.5	449.5	435.3	435.3	437.3	437.3	435.3
25°	5166.3	4413.8	2341.1	758.7	465.8	431.2	419.0	417.0	419.0	417.0	414.9
27.5°	5308.7	4442.2	2046.2	593.9	445.4	412.9	402.7	402.7	400.7	398.7	396.6
30°	5487.7	4474.8	1714.7	504.4	425.1	396.6	386.5	384.4	382.4	378.3	378.3
32.5°	5760.3	4546.0	1387.2	457.6	402.7	374.3	366.1	366.1	362.1	358.0	355.9
35°	6179.3	4686.3	1094.3	429.2	378.3	349.8	339.7	339.7	335.6	333.6	331.5
37.5°	6759.0	4899.9	850.2	402.7	353.9	323.4	313.2	311.2	307.1	303.1	301.0
40°	7529.8	5164.3	669.2	378.3	329.5	297.0	288.8	284.8	276.6	270.5	270.5
42.5°	8498.0	5465.3	543.1	351.9	301.0	272.6	266.5	260.4	246.1	240.0	238.0
45°	9511.0	5735.9	459.7	321.4	272.6	248.1	244.1	233.9	215.6	209.5	209.5
47.5°	10241.2	5798.9	404.8	292.9	246.1	221.7	219.7	201.4	185.1	181.0	179.0
50°	10696.8	5674.8	360.0	264.4	221.7	197.3	191.2	168.8	158.7	154.6	152.5
52.5°	11003.9	5453.1	323.4	240.0	199.3	174.9	160.7	144.4	136.3	132.2	132.2
55°	11250.0	5139.9	286.8	217.6	181.0	156.6	136.3	124.1	115.9	111.9	111.9
57.5°	11319.2	4714.8	250.2	199.3	162.7	138.3	115.9	107.8	97.6	95.6	95.6
60°	10816.8	3948.0	221.7	177.0	146.4	120.0	101.7	91.5	81.4	79.3	77.3
62.5°	9492.6	3055.1	195.3	156.6	128.1	103.7	87.5	75.3	67.1	67.1	67.1
65°	7241.0	2048.2	170.9	136.3	111.9	87.5	75.3	61.0	57.0	57.0	59.0
67.5°	4334.4	1114.6	146.4	115.9	95.6	73.2	63.1	52.9	50.8	52.9	52.9
69°	2540.5	654.9	132.2	103.7	83.4	65.1	54.9	46.8	50.8	52.9	52.9
70°	1568.2	441.4	122.0	93.6	75.3	59.0	50.8	44.7	48.8	50.8	50.8
72.5°	437.3	227.8	97.6	73.2	61.0	48.8	40.7	40.7	46.8	48.8	48.8
75°	284.8	168.8	75.3	54.9	46.8	38.6	34.6	38.6	44.7	46.8	46.8
77.5°	235.9	138.3	61.0	44.7	38.6	36.6	32.5	34.6	40.7	42.7	42.7
80°	215.6	97.6	48.8	40.7	34.6	32.5	30.5	28.5	36.6	38.6	38.6
82.5°	205.4	77.3	42.7	36.6	32.5	28.5	26.4	28.5	32.5	34.6	36.6
85°	128.1	50.8	38.6	34.6	28.5	26.4	26.4	26.4	30.5	32.5	32.5
87.5°	46.8	40.7	34.6	28.5	24.4	24.4	24.4	24.4	26.4	30.5	30.5
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)