

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: P192023

Luminaire Tested: **GAN-AF-05-LED-U-SL4-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192023
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-05-LED-U-SL4-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA 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: 26487 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 320
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

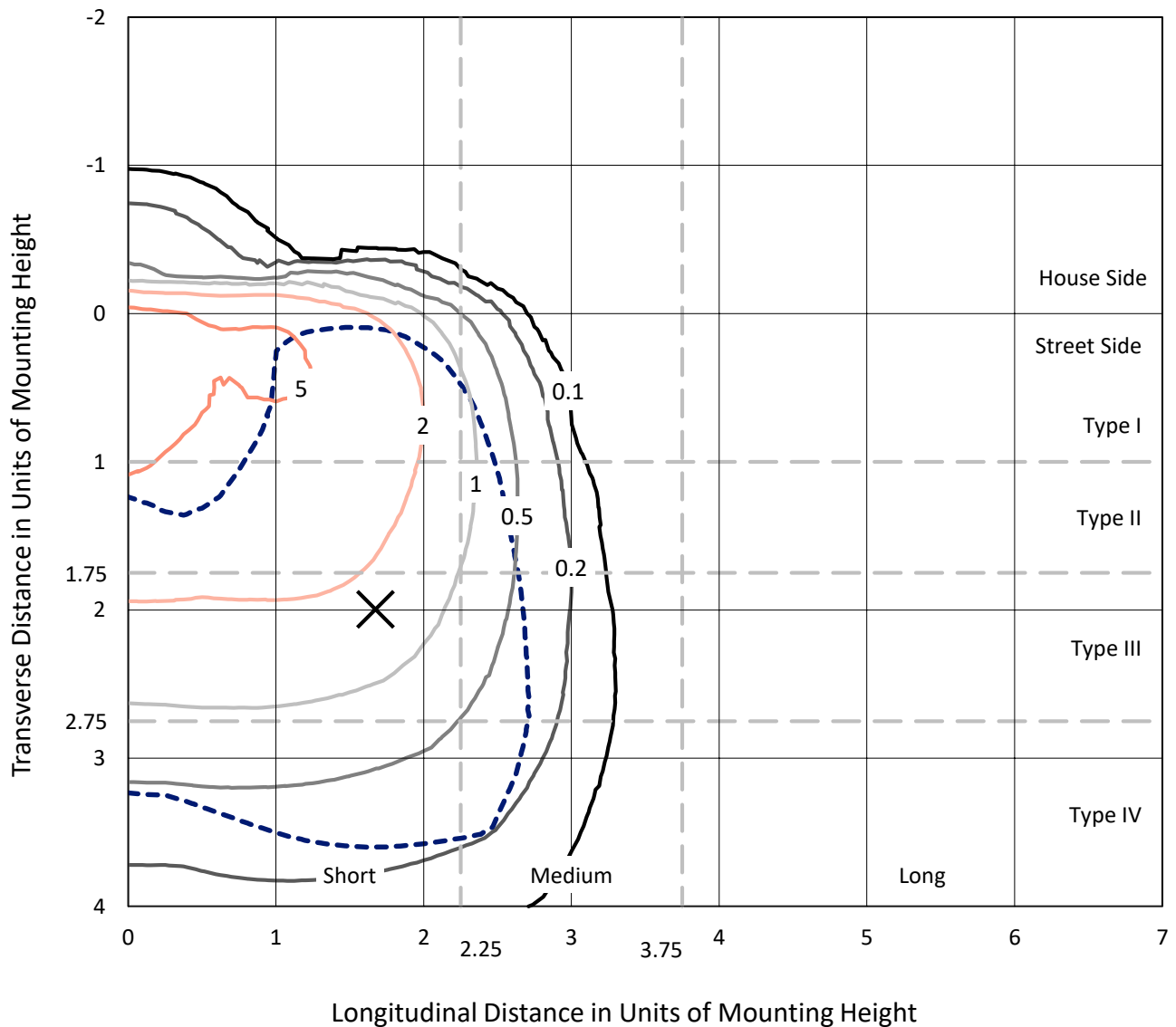


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

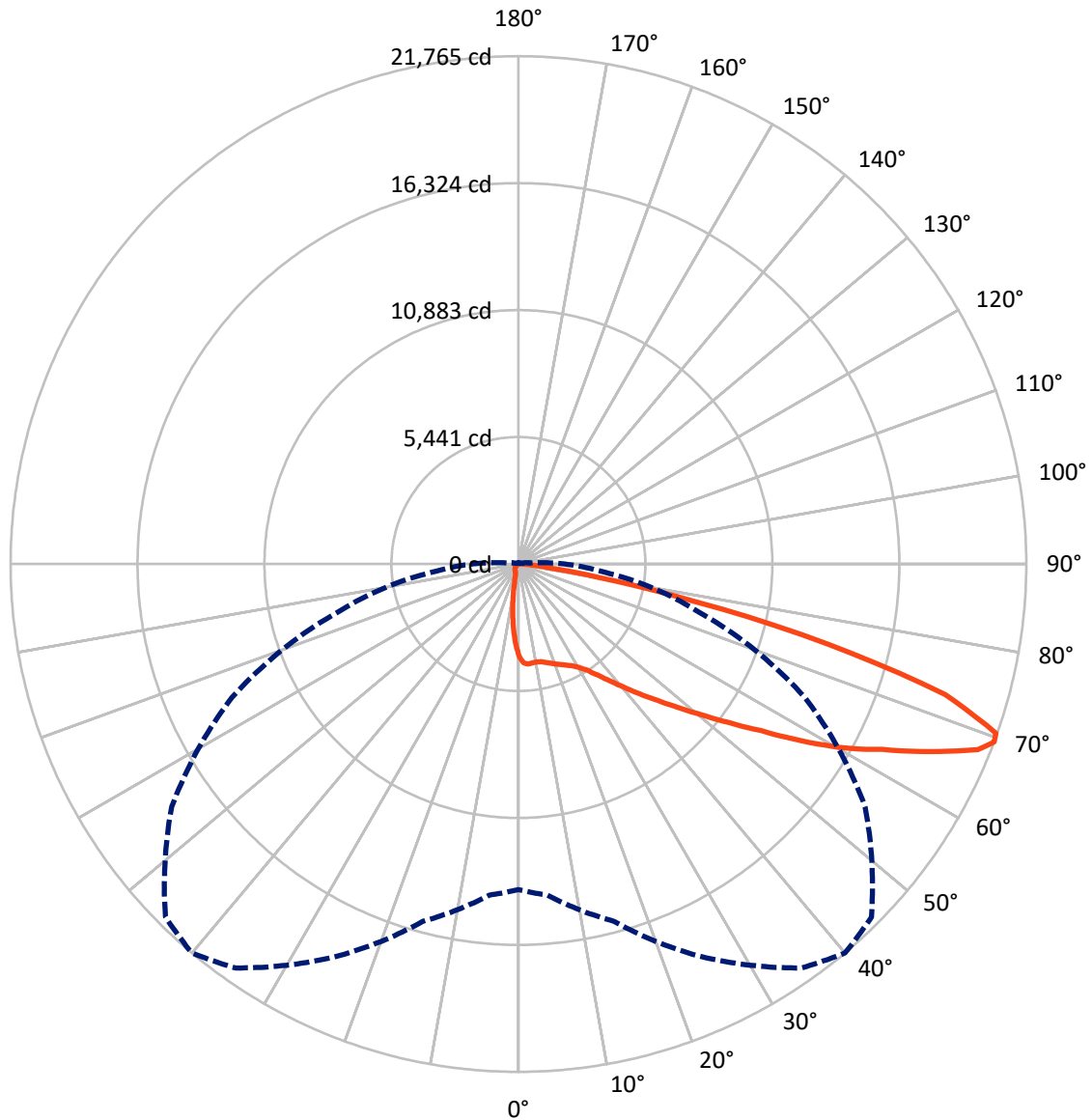


Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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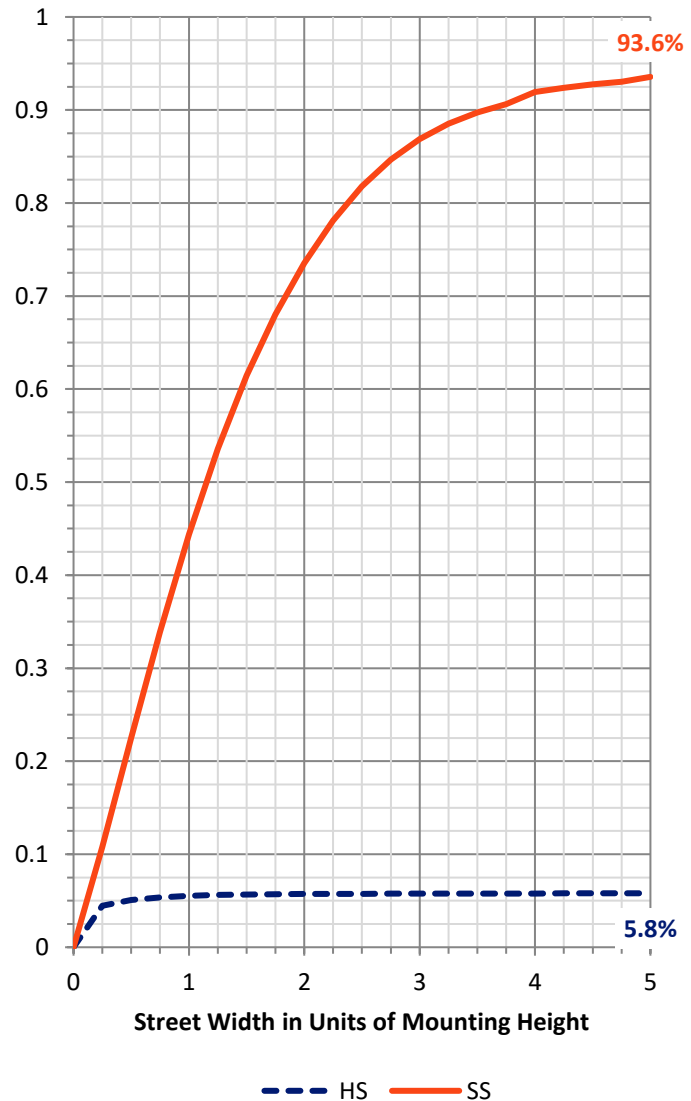
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1549.6	0.0	1549.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	24937.4	0.0	24937.4
	% Fixture	94.1	0.0	94.1
Total	Lumens	26487.0	0.0	26487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.9	1.2
10°-20°	789.0	3.0
20°-30°	1329.0	5.0
30°-40°	2175.7	8.2
40°-50°	3767.1	14.2
50°-60°	5933.5	22.4
60°-70°	7749.0	29.3
70°-80°	3991.1	15.1
80°-90°	431.7	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°	26487.0	100.0
0°-180°	26487.0	100.0

Coefficient of Utilization



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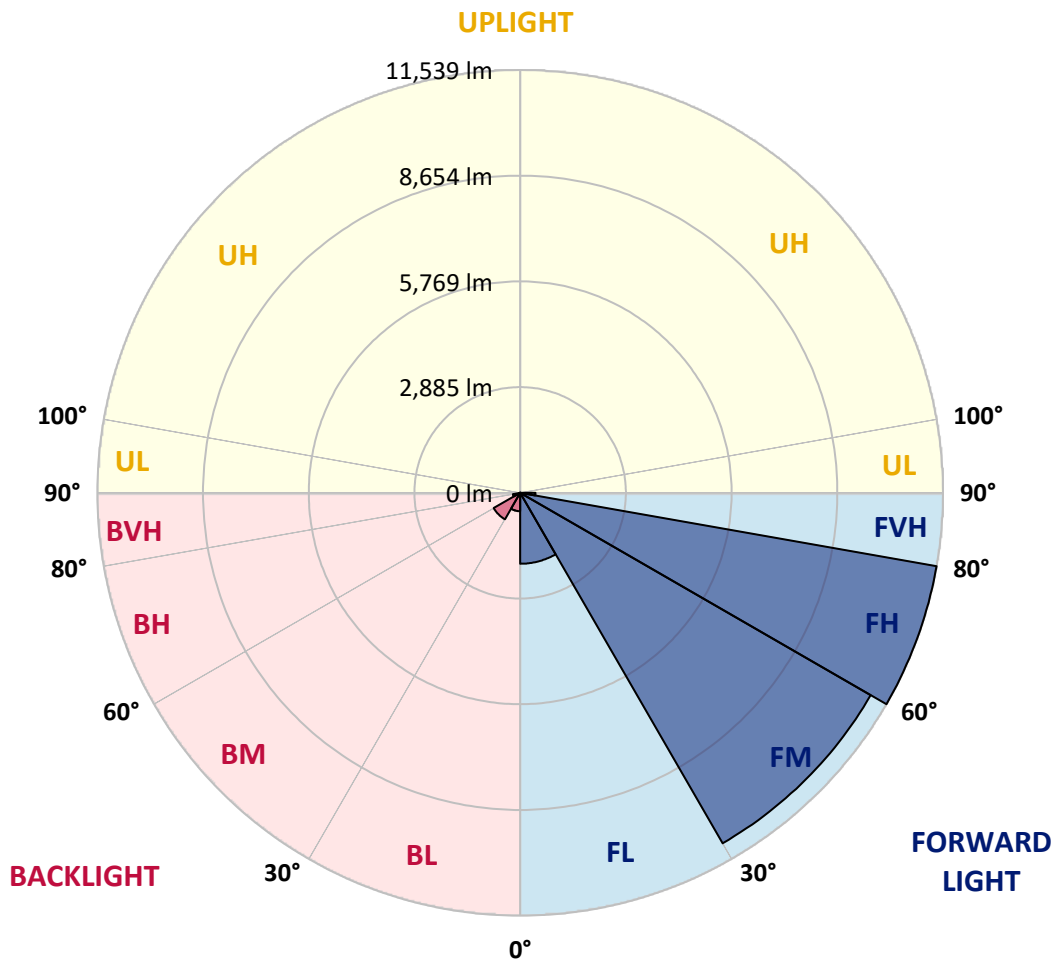
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1937.0	7.3			
FM	(30°-60°)	11043.4	41.7			
FH	(60°-80°)	11538.8	43.6			G4/12000
FVH	(80°-90°)	418.2	1.6			G3/500
BL	(0°-30°)	502.0	1.9	B2/1000		
BM	(30°-60°)	832.9	3.1	B1/1000		
BH	(60°-80°)	201.2	0.8	B1/500		G1/500
BVH	(80°-90°)	13.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3
2.5°	4345.1	4321.5	4307.3	4288.4	4264.7	4244.2	4236.4	4178.0	4122.8	4047.2	3960.4
5°	4425.5	4417.7	4392.4	4367.2	4338.8	4307.3	4290.0	4220.6	4141.8	4031.4	3880.0
7.5°	4433.4	4424.0	4392.4	4357.8	4318.3	4280.5	4250.5	4181.2	4108.6	3996.7	3812.2
10°	4420.8	4409.8	4386.1	4348.3	4299.4	4263.2	4233.2	4167.0	4105.5	4004.6	3799.6
12.5°	4406.6	4395.6	4384.6	4365.6	4323.1	4297.8	4272.6	4209.6	4154.4	4069.2	3845.4
15°	4420.8	4414.5	4427.1	4419.2	4395.6	4373.5	4348.3	4291.5	4241.1	4170.1	3928.9
17.5°	4480.7	4480.7	4520.1	4524.9	4502.8	4471.3	4435.0	4378.2	4335.7	4275.8	4028.2
20°	4621.0	4616.3	4666.8	4676.2	4622.6	4573.7	4520.1	4450.8	4417.7	4379.8	4126.0
22.5°	4862.3	4840.2	4870.2	4860.7	4755.1	4679.4	4613.2	4528.0	4510.7	4493.3	4234.8
25°	5176.0	5163.4	5183.9	5090.9	4904.8	4802.4	4723.5	4627.4	4627.4	4644.7	4357.8
27.5°	5631.7	5584.4	5515.0	5351.0	5072.0	4941.1	4856.0	4753.5	4780.3	4844.9	4520.1
30°	6098.3	6046.3	5887.1	5634.8	5275.3	5138.2	5038.8	4931.6	4994.7	5112.9	4737.7
32.5°	6558.7	6500.4	6274.9	5956.4	5567.0	5429.8	5333.7	5215.4	5321.1	5519.7	5056.2
35°	7004.9	6952.9	6692.7	6317.5	5954.9	5841.3	5753.1	5650.6	5786.2	6063.6	5505.5
37.5°	7506.2	7449.5	7132.6	6725.8	6426.3	6344.3	6279.6	6177.2	6413.7	6820.4	6131.4
40°	8122.7	8026.5	7599.3	7194.1	6971.8	6932.4	6888.2	6874.0	7241.4	7804.2	6965.5
42.5°	8829.0	8671.4	8088.0	7687.6	7570.9	7599.3	7588.2	7651.3	8277.2	9027.7	7980.8
45°	9535.3	9332.0	8631.9	8214.1	8229.9	8329.2	8390.7	8643.0	9574.8	10430.9	9073.4
47.5°	10134.5	9934.2	9153.8	8783.3	8972.5	9168.0	9335.1	9812.8	10908.6	11812.0	9923.2
50°	10646.9	10457.7	9707.2	9409.2	9834.9	10150.2	10421.4	11129.3	12343.3	12863.6	10519.1
52.5°	11066.2	10940.1	10281.1	10126.6	10820.3	11282.2	11679.5	12527.8	13614.0	13718.1	10982.7
55°	11474.6	11384.7	10897.5	10979.5	11977.5	12606.6	13109.5	14011.3	14708.2	14430.7	11427.3
57.5°	11944.4	11862.4	11600.7	12061.1	13498.9	14290.4	14839.1	15326.2	15671.5	15159.1	11846.7
60°	12423.7	12376.4	12382.7	13262.5	15245.8	16005.8	16308.5	16434.6	16617.5	15844.9	11870.3
62.5°	12880.9	12970.8	13276.6	14599.4	16918.6	17502.0	17654.9	17779.4	17565.0	15953.7	10966.9
65°	13655.0	13801.7	14531.6	16388.9	18758.5	19382.9	19540.5	19113.3	17714.8	14547.4	8920.5
67.5°	14033.4	14301.4	15603.7	18056.9	20543.2	21237.0	21178.6	19200.0	15897.0	11093.0	5724.7
69°	13954.6	14240.0	15851.2	18567.7	21136.0	21765.1	21394.6	18138.9	13543.1	8036.0	3514.3
70°	13642.4	13930.9	15723.5	18548.8	21211.7	21709.9	20994.2	16828.7	11450.9	5876.0	2197.8
72.5°	11392.6	11641.7	13959.3	16765.7	19540.5	19135.3	17563.4	11659.0	5579.6	1600.3	495.1
75°	7012.8	7151.5	10016.2	12630.2	14758.7	13718.1	11701.6	5800.4	1663.3	452.5	274.3
77.5°	3705.0	3768.1	5483.5	7444.8	9355.6	7741.2	5997.4	2262.4	766.2	283.8	198.7
80°	2189.9	2237.2	2953.0	3403.9	4048.7	3381.8	2398.0	1389.0	548.7	178.2	176.6
82.5°	1253.4	1283.4	2141.0	1891.9	1595.5	1362.2	1193.5	1316.5	329.5	119.8	182.9
85°	460.4	466.7	1204.5	1439.4	949.1	564.4	592.8	1091.0	88.3	75.7	143.5
87.5°	214.4	209.7	619.6	881.3	555.0	357.9	461.9	239.6	34.7	48.9	39.4
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°	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3	3957.3
2.5°	3910.0	3851.7	3746.0	3637.2	3526.9	3441.7	3358.2	3292.0	3269.9	3228.9	3232.1
5°	3790.2	3683.0	3462.2	3238.4	3005.0	2812.7	2631.4	2484.7	2413.8	2341.3	2341.3
7.5°	3686.1	3530.0	3184.8	2820.6	2443.7	2126.8	1841.5	1627.1	1508.8	1414.2	1412.6
10°	3646.7	3435.4	2953.0	2431.1	1906.1	1474.1	1135.2	917.6	805.6	733.1	730.0
12.5°	3664.0	3402.3	2774.8	2071.7	1412.6	947.5	657.4	517.1	469.8	447.8	447.8
15°	3714.5	3392.9	2596.7	1720.1	998.0	592.8	436.7	398.9	395.7	395.7	395.7
17.5°	3776.0	3396.0	2413.8	1378.0	679.5	424.1	376.8	372.1	375.2	375.2	375.2
20°	3839.0	3397.6	2216.7	1061.1	479.3	368.9	354.7	353.2	356.3	356.3	357.9
22.5°	3916.3	3405.5	2019.6	793.0	395.7	348.4	337.4	337.4	339.0	339.0	337.4
25°	4004.6	3421.2	1814.7	588.1	361.0	334.2	324.8	323.2	324.8	323.2	321.6
27.5°	4115.0	3443.3	1586.1	460.4	345.3	320.1	312.2	312.2	310.6	309.0	307.4
30°	4253.7	3468.5	1329.1	391.0	329.5	307.4	299.6	298.0	296.4	293.2	293.2
32.5°	4465.0	3523.7	1075.2	354.7	312.2	290.1	283.8	283.8	280.6	277.5	275.9
35°	4789.7	3632.5	848.2	332.7	293.2	271.2	263.3	263.3	260.1	258.6	257.0
37.5°	5239.1	3798.1	659.0	312.2	274.3	250.7	242.8	241.2	238.1	234.9	233.3
40°	5836.6	4003.0	518.7	293.2	255.4	230.2	223.9	220.7	214.4	209.7	209.7
42.5°	6587.1	4236.4	421.0	272.8	233.3	211.3	206.5	201.8	190.8	186.0	184.5
45°	7372.2	4446.0	356.3	249.1	211.3	192.3	189.2	181.3	167.1	162.4	162.4
47.5°	7938.2	4494.9	313.7	227.0	190.8	171.9	170.3	156.1	143.5	140.3	138.7
50°	8291.4	4398.7	279.1	205.0	171.9	152.9	148.2	130.9	123.0	119.8	118.2
52.5°	8529.5	4226.9	250.7	186.0	154.5	135.6	124.6	111.9	105.6	102.5	102.5
55°	8720.2	3984.1	222.3	168.7	140.3	121.4	105.6	96.2	89.9	86.7	86.7
57.5°	8773.8	3654.6	193.9	154.5	126.1	107.2	89.9	83.6	75.7	74.1	74.1
60°	8384.4	3060.2	171.9	137.2	113.5	93.0	78.8	70.9	63.1	61.5	59.9
62.5°	7358.0	2368.1	151.4	121.4	99.3	80.4	67.8	58.3	52.0	52.0	52.0
65°	5612.7	1587.6	132.4	105.6	86.7	67.8	58.3	47.3	44.1	44.1	45.7
67.5°	3359.8	864.0	113.5	89.9	74.1	56.8	48.9	41.0	39.4	41.0	41.0
69°	1969.2	507.7	102.5	80.4	64.6	50.5	42.6	36.3	39.4	41.0	41.0
70°	1215.6	342.1	94.6	72.5	58.3	45.7	39.4	34.7	37.8	39.4	39.4
72.5°	339.0	176.6	75.7	56.8	47.3	37.8	31.5	31.5	36.3	37.8	37.8
75°	220.7	130.9	58.3	42.6	36.3	30.0	26.8	30.0	34.7	36.3	36.3
77.5°	182.9	107.2	47.3	34.7	30.0	28.4	25.2	26.8	31.5	33.1	33.1
80°	167.1	75.7	37.8	31.5	26.8	25.2	23.6	22.1	28.4	30.0	30.0
82.5°	159.2	59.9	33.1	28.4	25.2	22.1	20.5	22.1	25.2	26.8	28.4
85°	99.3	39.4	30.0	26.8	22.1	20.5	20.5	20.5	23.6	25.2	25.2
87.5°	36.3	31.5	26.8	22.1	18.9	18.9	18.9	18.9	20.5	23.6	23.6
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)