

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: P192862

Luminaire Tested: **GAN-AF-04-LED-U-SL3-7030-800-HSS-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192862
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-04-LED-U-SL3-7030-800-HSS-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 16029.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 171
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

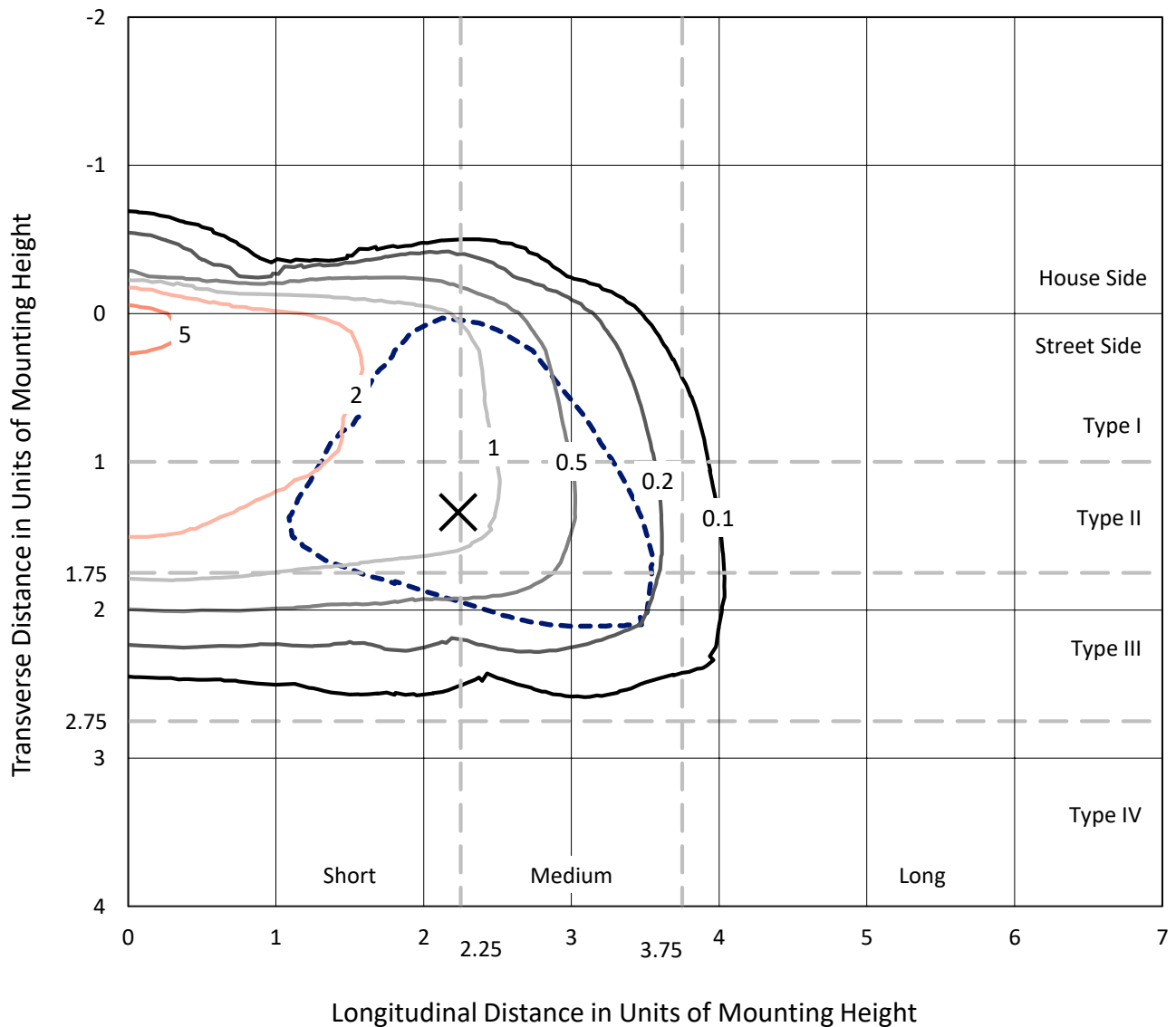


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

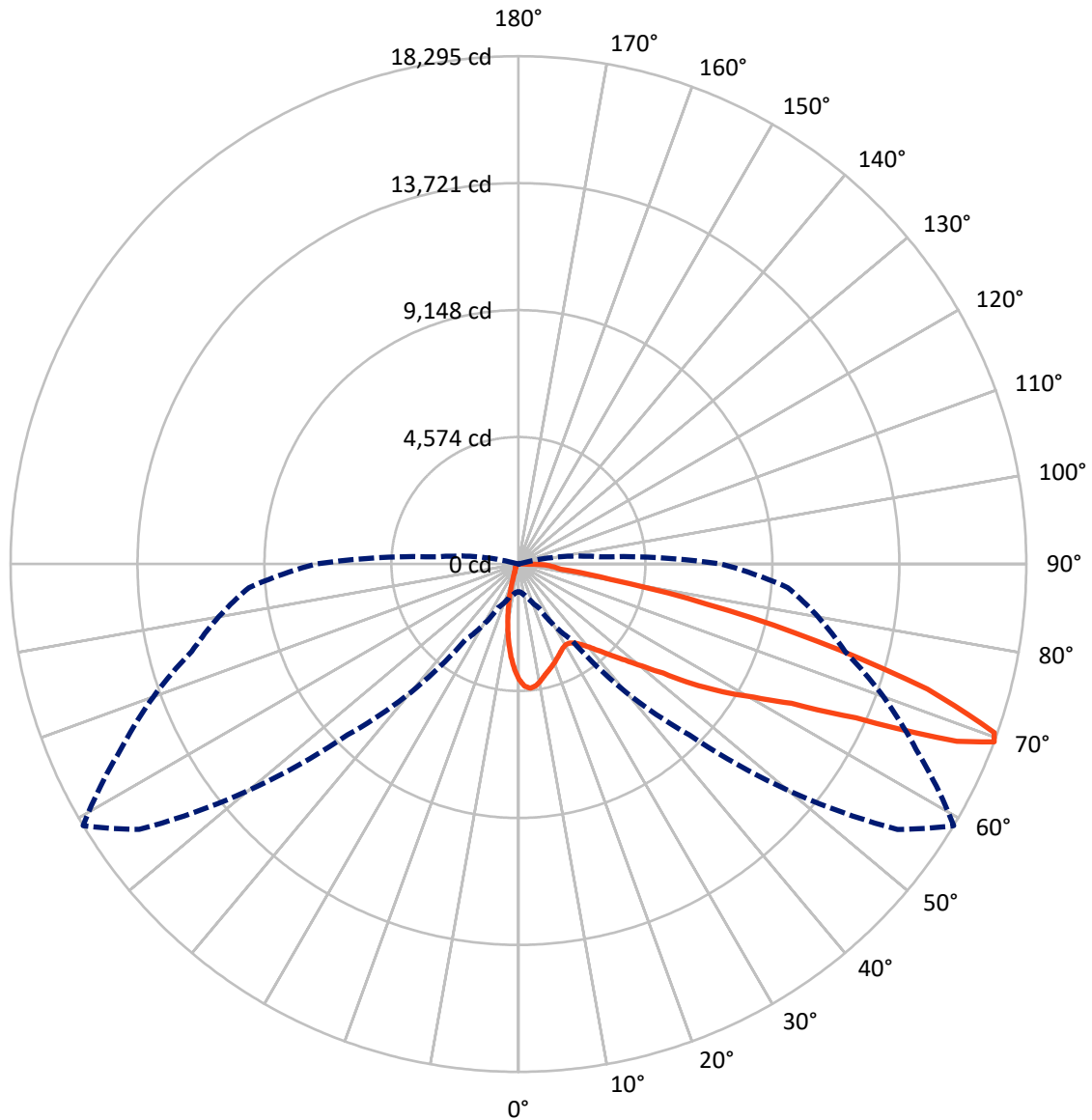


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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



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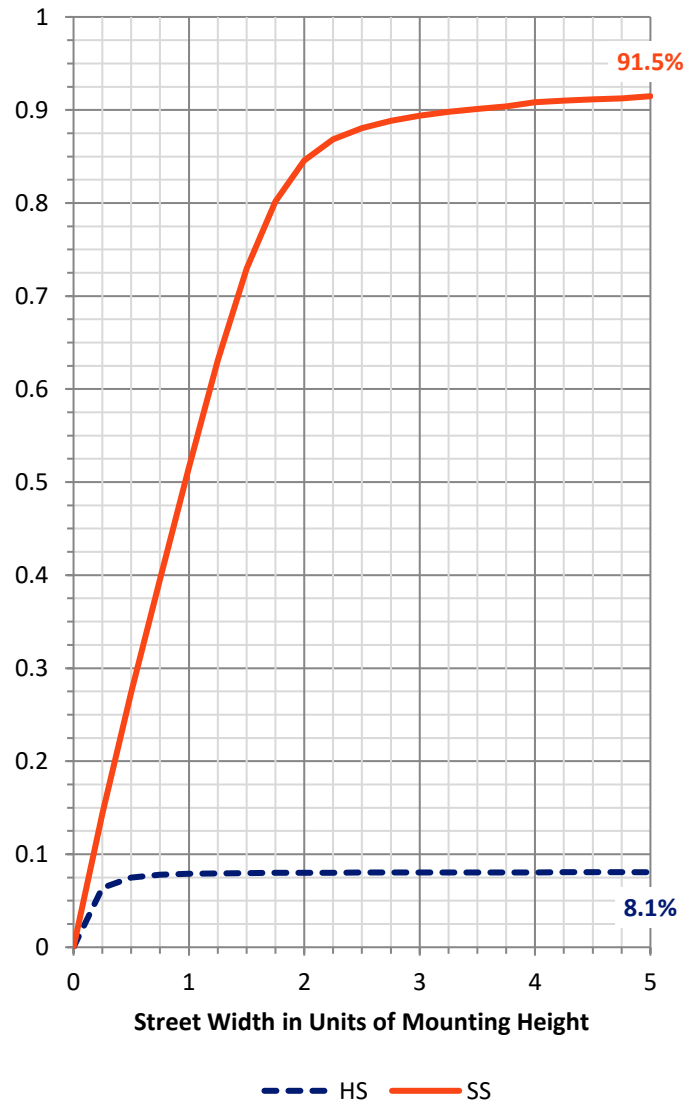
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1305.4	0.0	1305.4
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	14724.1	0.0	14724.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	16029.4	0.0	16029.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.7	2.1
10°-20°	699.8	4.4
20°-30°	941.6	5.9
30°-40°	1367.2	8.5
40°-50°	2276.5	14.2
50°-60°	3551.2	22.2
60°-70°	4394.4	27.4
70°-80°	2227.0	13.9
80°-90°	233.0	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°	16029.4	100.0
0°-180°	16029.4	100.0



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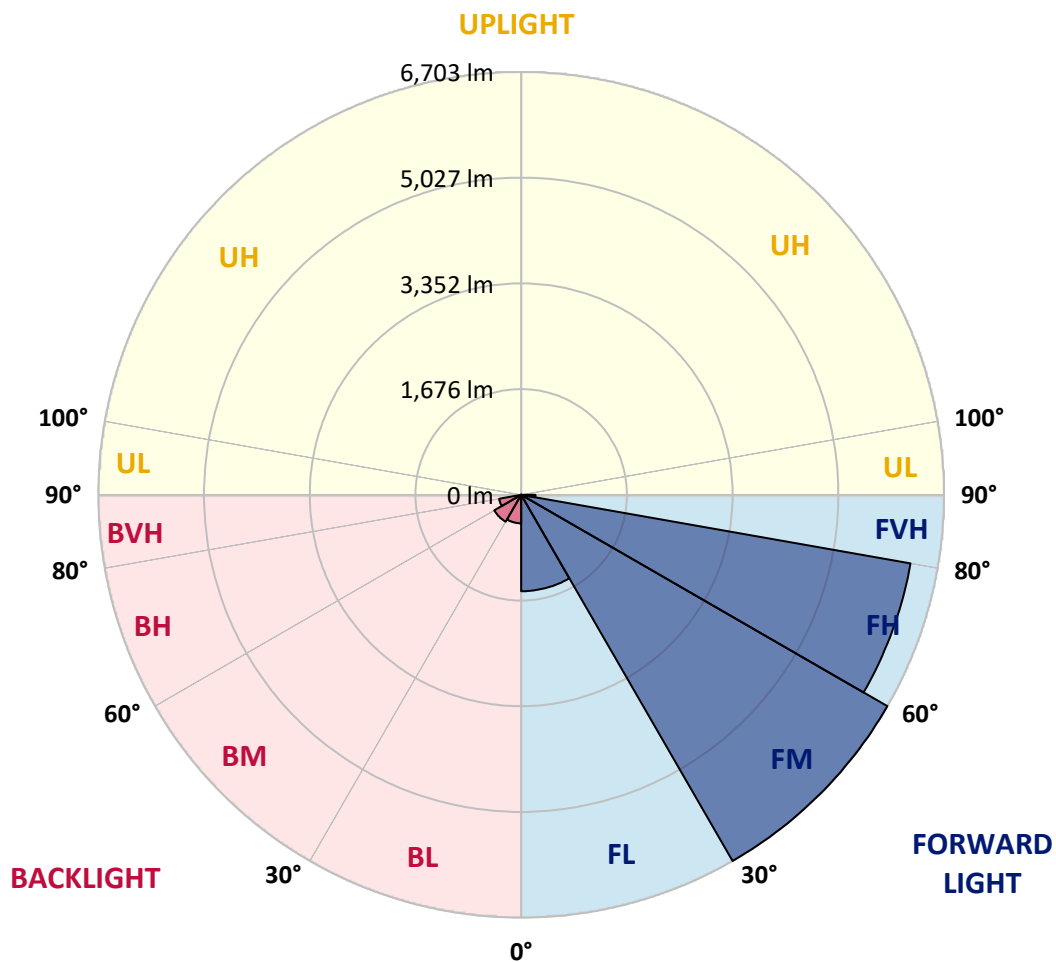
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1528.2	9.5			
FM	(30°-60°)	6703.0	41.8			
FH	(60°-80°)	6266.9	39.1			G3/7500
FVH	(80°-90°)	225.9	1.4			G3/500
BL	(0°-30°)	451.8	2.8	B1/500		
BM	(30°-60°)	491.9	3.1	B1/1000		
BH	(60°-80°)	354.5	2.2	B1/500		G1/500
BVH	(80°-90°)	7.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3
2.5°	4572.8	4571.1	4551.0	4542.0	4525.7	4491.3	4437.8	4409.7	4364.4	4285.5	4179.5
5°	4531.2	4553.0	4564.8	4565.6	4577.4	4564.8	4516.7	4493.1	4430.6	4303.7	4113.3
7.5°	4248.3	4256.5	4290.1	4319.1	4375.3	4428.8	4446.0	4436.0	4398.9	4262.9	4010.1
10°	3945.7	3953.8	3993.7	4031.7	4107.9	4190.4	4277.4	4295.5	4311.0	4204.9	3910.3
12.5°	3684.6	3692.8	3733.5	3783.4	3872.2	3973.8	4108.8	4138.7	4206.7	4149.5	3830.5
15°	3459.8	3463.4	3503.3	3564.9	3671.0	3801.5	3954.7	4002.7	4106.9	4110.6	3760.7
17.5°	3268.5	3277.6	3302.1	3361.1	3477.0	3638.4	3817.0	3885.8	4008.1	4078.0	3692.8
20°	3151.6	3160.7	3159.8	3192.4	3296.7	3468.9	3679.2	3761.6	3910.3	4044.4	3632.0
22.5°	3128.9	3128.9	3105.3	3100.9	3162.5	3306.6	3535.9	3636.5	3822.3	4029.9	3589.3
25°	3209.6	3206.0	3147.1	3099.0	3101.8	3187.8	3397.2	3516.9	3748.0	4039.9	3566.8
27.5°	3380.1	3375.4	3301.2	3209.6	3136.2	3135.3	3292.1	3420.8	3689.1	4087.1	3575.8
30°	3615.7	3613.9	3533.2	3418.0	3284.9	3162.5	3255.8	3372.8	3651.0	4172.3	3596.7
32.5°	3873.1	3870.4	3809.7	3688.3	3519.6	3284.9	3293.9	3391.9	3662.0	4285.5	3647.4
35°	4146.0	4141.5	4115.1	4009.0	3823.3	3510.5	3419.0	3495.1	3730.7	4455.0	3747.1
37.5°	4441.5	4446.0	4465.0	4363.5	4168.6	3827.0	3628.4	3680.1	3869.5	4685.2	3909.4
40°	4877.5	4876.6	4882.9	4749.6	4562.0	4213.9	3921.2	3937.4	4101.5	4990.8	4155.9
42.5°	5668.7	5613.4	5445.7	5173.9	4985.3	4656.3	4290.1	4272.8	4385.2	5368.7	4501.3
45°	6732.0	6614.1	6179.0	5657.9	5416.7	5154.8	4744.1	4688.9	4760.5	5822.9	4927.3
47.5°	7646.5	7524.1	6908.7	6161.7	5874.6	5628.0	5276.2	5176.6	5200.0	6331.3	5467.6
50°	7957.5	7897.6	7360.1	6600.6	6317.7	6223.4	5893.6	5772.0	5738.6	6919.6	6093.8
52.5°	7849.6	7845.1	7487.0	6885.2	6723.9	6839.8	6670.3	6529.9	6406.5	7539.6	6731.0
55°	7676.4	7699.1	7538.7	7134.4	7128.9	7402.8	7732.6	7615.7	7258.6	8213.0	7280.4
57.5°	7198.8	7295.8	7509.7	7605.7	7828.8	8108.7	8617.3	8686.2	8263.9	8728.8	7736.3
60°	5841.0	6053.9	6753.8	7673.8	8730.6	9428.5	9685.1	9744.0	9088.6	9157.6	8351.8
62.5°	4146.0	4363.5	5250.9	6807.2	8744.2	11162.5	11275.9	11044.7	9996.9	9792.9	9413.1
65°	2200.8	2368.5	3093.5	4913.7	7581.3	11565.0	14057.7	13368.8	11599.4	11042.9	10784.6
67.5°	1125.8	1176.5	1464.7	2404.7	5211.8	10272.4	16551.1	17036.1	14361.2	12282.8	10718.4
69°	996.1	1026.1	1217.3	1738.6	3337.5	8700.8	16672.6	18295.1	15807.0	12179.5	9740.4
70°	964.4	990.8	1164.7	1573.6	2608.7	7296.7	16207.6	18184.6	16176.8	11786.2	9009.7
72.5°	818.5	841.2	1037.0	1390.5	2120.0	3622.1	13165.7	15409.1	14516.3	9818.2	6521.6
75°	547.5	621.8	995.3	1303.5	1972.3	2057.6	8679.9	11135.3	10344.0	6622.3	3397.2
77.5°	131.4	141.4	281.1	1037.0	1803.8	1811.0	4464.2	6922.3	5646.1	2360.3	803.0
80°	70.7	68.0	78.8	205.7	1679.7	1699.5	2009.5	3360.0	2015.9	391.5	264.6
82.5°	49.8	47.1	50.8	86.1	528.5	1548.2	1453.9	1521.0	835.8	150.4	118.8
85°	18.1	17.3	28.1	77.9	165.8	890.1	1493.8	1254.6	677.1	68.9	87.0
87.5°	6.3	5.5	10.9	42.6	50.8	378.9	921.8	948.2	266.5	41.7	40.8
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°	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3	4172.3
2.5°	4135.0	4078.8	3975.5	3869.5	3771.6	3653.7	3594.8	3536.8	3512.3	3503.3	3460.7
5°	4015.4	3920.2	3700.9	3480.7	3277.6	3061.9	2919.5	2805.3	2738.2	2705.7	2654.0
7.5°	3862.2	3706.3	3373.7	3033.8	2717.4	2405.7	2174.5	1996.8	1874.5	1815.6	1762.1
10°	3713.6	3506.0	3032.8	2569.7	2140.1	1726.8	1407.7	1176.5	1028.7	960.8	917.3
12.5°	3580.3	3311.1	2703.8	2117.5	1578.0	1094.0	769.5	585.5	494.0	462.2	446.9
15°	3461.7	3131.7	2392.9	1687.7	1068.7	625.4	420.5	358.1	343.5	343.5	341.8
17.5°	3349.3	2955.8	2093.0	1284.4	670.8	382.5	319.9	311.8	311.8	315.4	315.4
20°	3241.4	2788.2	1802.9	921.8	422.4	303.6	289.1	287.4	289.1	293.7	293.7
22.5°	3148.9	2635.9	1531.9	632.7	313.6	273.7	266.5	263.8	264.6	267.3	269.3
25°	3080.0	2507.2	1276.2	428.8	270.1	249.2	241.1	236.5	232.9	232.9	234.8
27.5°	3036.6	2398.3	1028.7	311.8	242.9	226.6	213.9	206.6	198.6	193.9	195.8
30°	3004.7	2295.1	796.7	254.7	217.5	201.2	184.8	173.1	161.3	155.9	157.8
32.5°	2992.9	2211.6	595.5	224.7	194.9	176.8	156.8	141.4	128.7	124.2	125.1
35°	3024.8	2145.6	436.0	203.0	176.8	154.0	131.4	114.1	104.3	101.5	102.3
37.5°	3108.1	2110.2	326.3	184.8	160.4	135.1	109.7	93.3	87.0	87.0	88.0
40°	3265.9	2109.2	262.0	172.2	146.0	116.9	90.6	78.8	75.3	77.0	77.9
42.5°	3496.1	2157.4	228.5	160.4	133.3	99.8	75.3	67.0	66.2	68.0	68.9
45°	3810.5	2245.2	210.4	150.4	119.6	83.4	63.5	58.0	58.0	60.7	61.6
47.5°	4195.8	2373.8	194.9	140.5	106.1	69.8	54.4	50.8	51.7	54.4	55.2
50°	4659.9	2536.1	179.5	129.6	96.0	58.0	47.1	44.5	45.4	48.9	49.8
52.5°	5188.2	2754.7	166.7	119.6	83.4	48.1	39.9	38.0	39.9	43.4	44.5
55°	5641.5	2950.4	151.4	111.5	67.0	39.9	32.7	32.7	34.4	39.0	39.9
57.5°	6077.5	3155.2	137.7	96.0	52.6	31.6	27.2	28.1	30.8	35.4	36.3
60°	6717.5	3502.5	121.5	80.7	39.9	25.3	22.6	23.6	27.2	31.6	32.7
62.5°	7804.3	4030.8	105.1	67.0	30.8	20.0	18.1	20.0	24.5	29.9	30.8
65°	8785.0	4245.7	86.1	56.2	23.6	15.4	15.4	18.1	23.6	29.0	29.9
67.5°	8238.4	3574.0	67.0	44.5	18.1	11.8	12.7	17.3	22.6	29.0	29.9
69°	7285.7	2922.2	57.2	35.4	15.4	10.9	11.8	17.3	22.6	28.1	29.0
70°	6543.4	2467.3	50.8	29.9	13.5	10.9	11.8	16.3	22.6	28.1	29.0
72.5°	4382.5	1332.4	40.8	21.8	12.7	10.0	10.0	16.3	21.8	27.2	28.1
75°	1883.5	367.9	32.7	15.4	10.9	9.1	9.1	15.4	20.9	26.3	28.1
77.5°	344.3	93.3	26.3	13.5	10.9	9.1	8.2	14.5	20.0	25.3	26.3
80°	136.9	46.2	20.9	11.8	10.0	8.2	7.2	13.5	19.0	24.5	25.3
82.5°	82.5	26.3	17.3	10.9	10.0	7.2	6.3	11.8	18.1	23.6	24.5
85°	67.0	18.1	13.5	10.9	9.1	7.2	5.5	10.9	16.3	22.6	23.6
87.5°	32.7	12.7	12.7	10.0	9.1	7.2	5.5	10.0	15.4	21.8	22.6
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)