

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: P193481

Luminaire Tested: **GAN-AF-03-LED-U-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193481
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-AFL-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13316 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 191
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

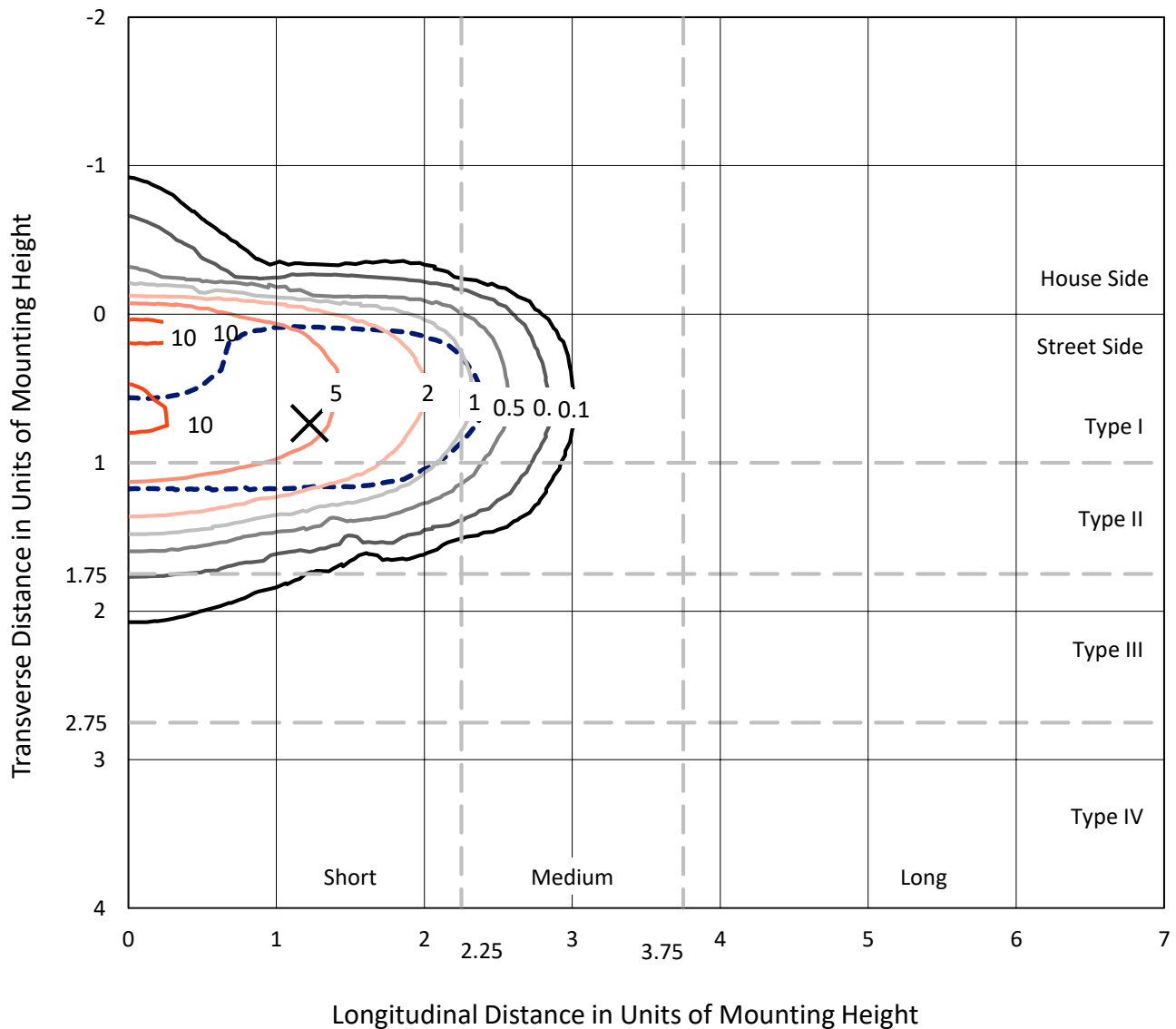


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

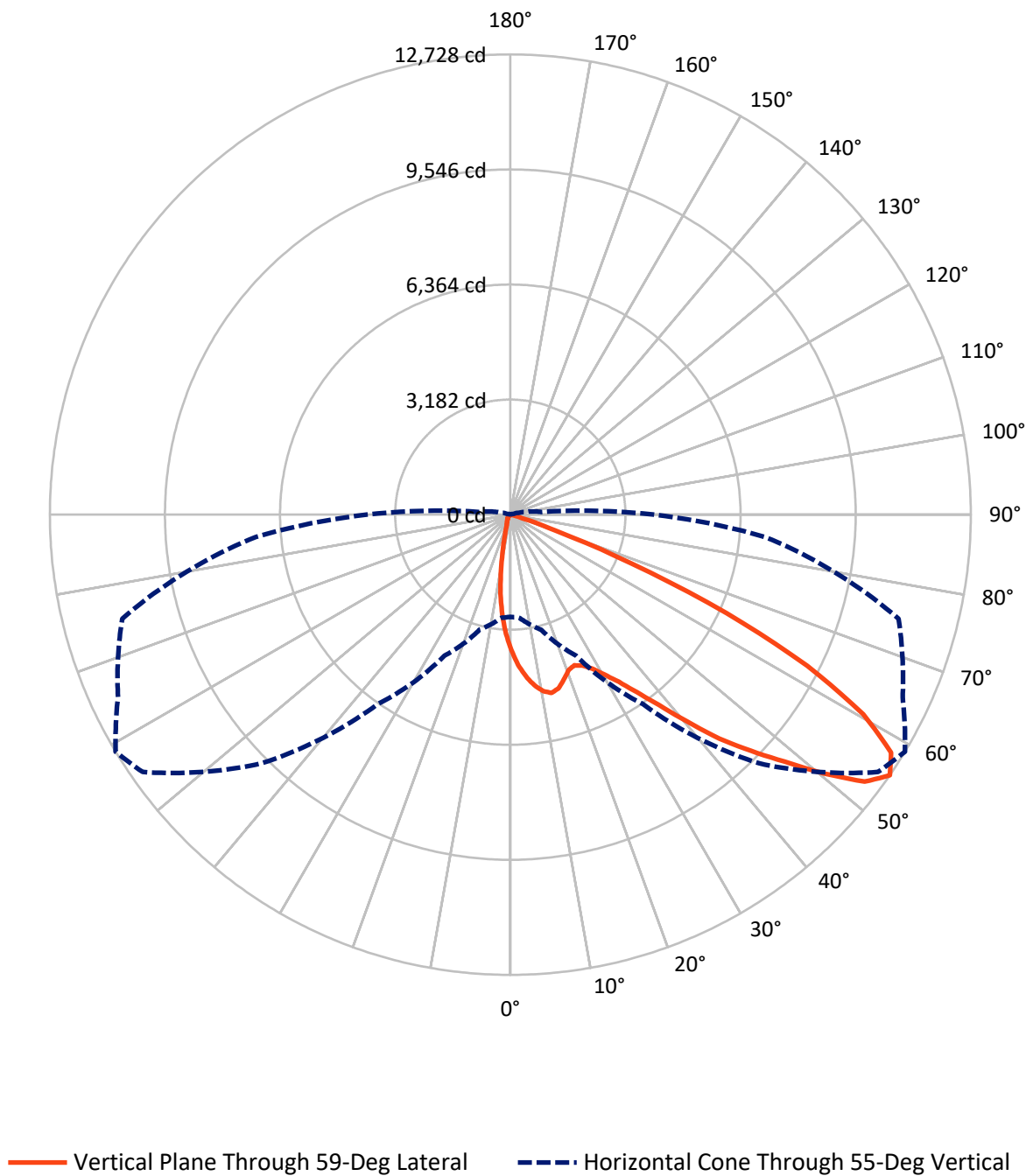


Based on 20 foot mounting height. Maximum calculated value = 11.7 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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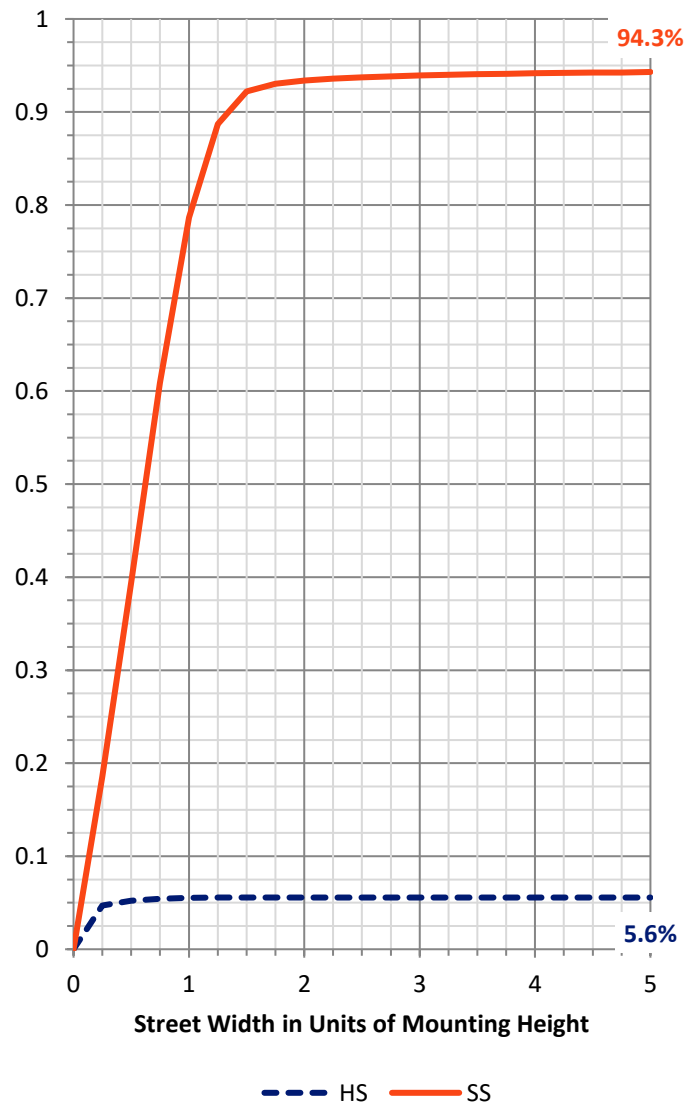
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	743.8	0.0	743.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	12572.2	0.0	12572.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	13316.0	0.0	13316.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.0	2.4
10°-20°	751.7	5.6
20°-30°	1279.2	9.6
30°-40°	2199.9	16.5
40°-50°	3396.4	25.5
50°-60°	3414.4	25.6
60°-70°	1750.9	13.1
70°-80°	189.7	1.4
80°-90°	19.8	0.1
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°	13316.0	100.0
0°-180°	13316.0	100.0

Coefficient of Utilization



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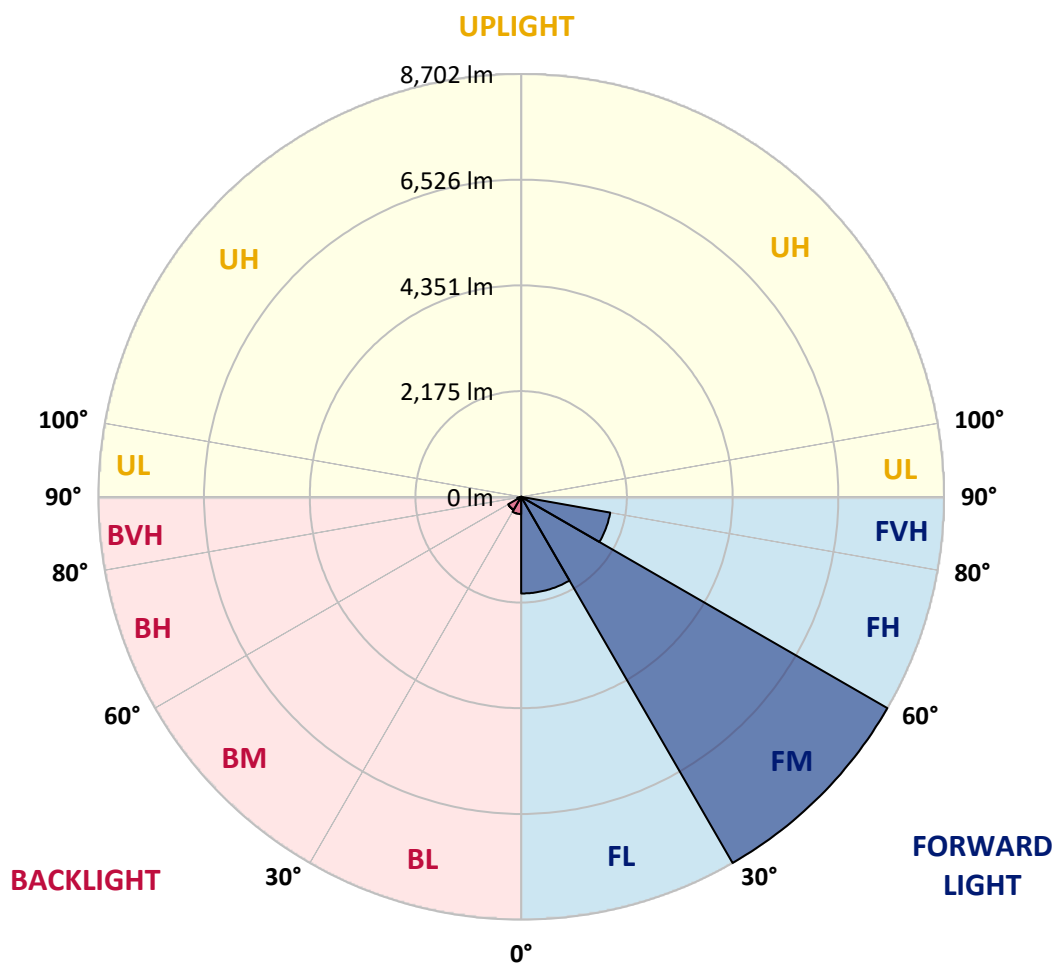
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1989.8	14.9			
FM	(30°-60°)	8702.0	65.3			
FH	(60°-80°)	1861.0	14.0			G2/5000
FVH	(80°-90°)	19.4	0.1			G1/100
BL	(0°-30°)	355.0	2.7	B1/500		
BM	(30°-60°)	308.7	2.3	B1/1000		
BH	(60°-80°)	79.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4
2.5°	4435.2	4388.1	4373.9	4364.5	4321.3	4267.1	4193.2	4158.6	4087.9	3973.9	3834.1
5°	4841.5	4832.9	4801.4	4784.1	4737.8	4660.8	4542.9	4486.3	4373.9	4182.2	3931.5
7.5°	4663.9	4718.1	4761.3	4833.6	4924.8	4921.6	4822.6	4763.7	4638.0	4384.9	4039.9
10°	3977.9	4021.9	4092.6	4256.8	4591.6	4887.1	5003.4	4960.9	4860.4	4571.2	4144.5
12.5°	3843.5	3838.8	3851.3	3899.3	4074.5	4495.7	4972.7	5058.4	5038.0	4741.7	4243.5
15°	3915.0	3909.5	3907.9	3924.4	3966.9	4144.5	4742.5	4988.4	5146.4	4899.6	4327.6
17.5°	4115.4	4091.8	4079.2	4065.9	4053.3	4097.3	4465.9	4792.8	5162.9	5038.0	4397.5
20°	4458.8	4419.5	4373.1	4297.7	4227.0	4205.0	4349.6	4591.6	5104.0	5143.3	4443.1
22.5°	4890.2	4839.9	4759.8	4622.2	4478.4	4395.1	4406.9	4527.9	5015.9	5258.0	4464.3
25°	5375.1	5310.6	5203.8	5012.8	4801.4	4653.7	4576.7	4619.1	4975.9	5392.4	4488.7
27.5°	5894.5	5823.0	5683.1	5423.0	5183.3	4983.7	4826.6	4821.1	5044.2	5568.4	4527.9
30°	6409.2	6398.2	6215.9	5940.9	5623.4	5380.6	5154.3	5125.2	5235.2	5812.0	4605.7
32.5°	7096.0	7013.5	6790.4	6507.5	6141.3	5849.7	5581.7	5514.2	5528.3	6095.7	4726.0
35°	7962.0	7871.7	7557.3	7166.8	6757.3	6413.2	6116.9	6025.0	5990.4	6560.1	4928.7
37.5°	8521.5	8520.0	8322.7	7925.1	7485.8	7106.3	6784.1	6676.4	6606.5	7121.2	5243.1
40°	8536.5	8573.4	8599.3	8595.4	8282.6	7932.9	7646.9	7514.1	7351.4	7870.9	5649.3
42.5°	8078.3	8173.4	8402.1	8790.3	8975.7	8836.7	8595.4	8465.0	8222.9	8673.2	6144.4
45°	7459.1	7525.1	7925.1	8640.2	9351.4	9732.5	9548.6	9315.2	8996.2	9510.1	6588.4
47.5°	7181.7	7193.5	7452.0	8237.1	9379.7	10466.5	10578.0	10198.5	9698.7	10184.3	6935.7
50°	6352.6	6373.9	6730.6	7538.5	9048.0	10813.0	11612.2	11252.3	10464.9	10703.8	7062.2
52.5°	4788.1	4817.9	5270.6	6390.4	8136.5	10665.3	12352.5	12265.2	11304.2	10957.6	7069.3
55°	2825.1	2864.3	3296.6	4301.6	6399.8	9725.4	12407.5	12728.1	11966.6	11107.7	7058.3
57.5°	1319.4	1346.9	1594.4	2216.0	3980.2	7686.2	11579.2	12410.6	12332.0	11187.1	7136.1
60°	701.0	708.8	768.5	959.5	1798.8	4873.7	9962.7	11206.7	11998.8	11297.1	7231.2
62.5°	535.9	538.3	535.1	557.9	756.0	2163.4	7530.6	9213.1	10657.4	11214.6	7125.9
65°	464.4	468.4	446.4	440.9	484.9	771.7	4473.7	6567.2	8374.6	10101.1	6408.4
67.5°	416.5	418.1	391.3	368.6	376.4	417.3	1765.0	3595.2	5543.2	7404.1	4645.0
70°	383.5	381.9	352.8	316.7	306.5	285.3	561.1	1317.8	2649.0	3754.7	2160.2
72.5°	339.5	340.3	326.1	279.0	254.6	199.6	260.1	384.3	790.5	1023.1	506.1
75°	301.0	297.0	279.8	249.9	209.8	131.2	128.9	171.3	243.6	242.0	109.2
77.5°	217.7	213.7	219.2	205.1	161.1	84.9	64.4	82.5	99.0	95.9	30.6
80°	159.5	157.2	141.4	170.5	142.2	58.2	40.1	44.0	51.1	43.2	9.4
82.5°	109.2	108.4	99.8	94.3	80.9	35.4	25.1	27.5	33.0	24.4	4.7
85°	17.3	19.6	72.3	57.4	47.9	15.7	17.3	18.9	22.0	13.4	1.6
87.5°	0.0	0.0	33.8	29.9	9.4	6.3	10.2	11.0	11.0	7.1	0.0
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°	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4	3748.4
2.5°	3762.6	3684.0	3538.6	3388.5	3249.4	3083.6	2969.6	2884.0	2785.0	2758.3	2816.4
5°	3788.5	3640.0	3327.2	2986.9	2667.1	2312.7	2041.6	1827.1	1633.0	1566.9	1626.7
7.5°	3829.3	3608.5	3098.5	2538.2	1981.9	1428.6	1049.9	800.8	642.0	594.9	620.0
10°	3870.2	3563.0	2833.7	2007.0	1246.3	695.5	452.6	361.5	327.7	320.6	324.5
12.5°	3904.0	3501.7	2510.7	1427.1	666.4	372.5	296.3	281.3	276.6	276.6	278.2
15°	3924.4	3408.9	2128.0	907.6	383.5	281.3	258.5	253.8	253.8	254.6	256.2
17.5°	3922.1	3291.1	1709.2	549.3	286.8	249.1	235.7	231.8	231.0	232.6	233.4
20°	3893.0	3137.0	1288.8	362.3	249.9	227.1	213.7	206.7	205.9	207.5	209.0
22.5°	3838.0	2946.9	921.8	279.0	225.5	205.9	189.4	183.1	183.1	184.7	186.2
25°	3771.2	2714.3	630.2	236.5	203.5	183.1	167.4	161.9	163.5	167.4	168.2
27.5°	3687.9	2452.6	428.3	202.7	176.8	160.3	148.5	144.6	148.5	154.0	155.6
30°	3616.4	2179.9	305.7	175.2	150.1	138.3	131.2	131.2	136.7	147.0	149.3
32.5°	3561.4	1915.9	235.7	154.8	130.4	120.2	116.3	120.2	128.9	139.1	141.4
35°	3554.3	1698.2	199.6	138.3	116.3	106.1	104.5	111.6	120.2	128.1	129.7
37.5°	3608.5	1497.0	180.0	124.9	103.7	94.3	92.7	101.4	110.0	119.4	121.8
40°	3711.5	1339.1	165.8	112.4	93.5	83.3	80.2	86.4	98.2	110.8	113.9
42.5°	3845.1	1208.6	150.1	99.8	83.3	69.2	65.2	72.3	84.9	98.2	102.2
45°	3972.4	1096.2	132.8	85.7	69.9	53.4	51.9	61.3	67.6	80.9	84.1
47.5°	4042.3	997.2	117.9	69.9	54.2	43.2	43.2	45.6	51.9	67.6	70.7
50°	4018.7	917.8	102.2	51.9	37.7	33.0	33.0	32.2	41.6	54.2	56.6
52.5°	3971.6	872.3	88.0	40.1	25.9	23.6	21.2	23.6	29.1	34.6	35.4
55°	3964.5	864.4	73.9	32.2	18.1	15.7	11.8	11.8	11.8	11.0	9.4
57.5°	4019.5	877.0	62.1	25.9	13.4	10.2	6.3	0.0	0.0	0.0	0.0
60°	4076.1	890.3	53.4	18.1	9.4	5.5	0.8	0.0	0.0	0.0	0.0
62.5°	3981.8	860.5	44.8	11.0	7.1	2.4	0.0	0.0	0.0	0.0	0.0
65°	3497.7	732.4	35.4	7.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2487.9	490.4	23.6	4.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1135.5	205.1	14.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	242.8	63.7	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	49.5	46.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.7	73.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.4	52.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.6	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)