

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: P322814

Luminaire Tested: **GAN-SA0C-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42436 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

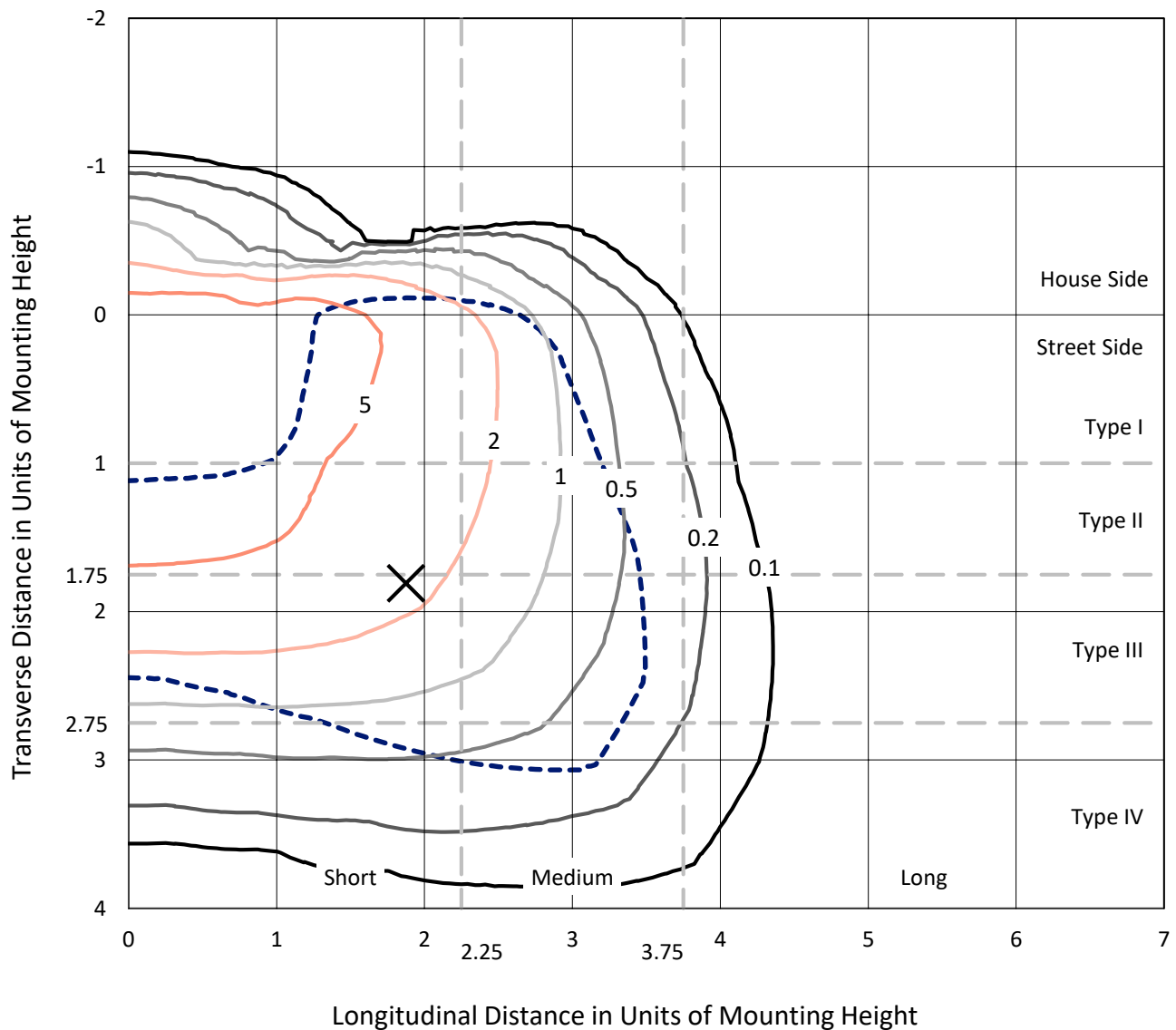
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

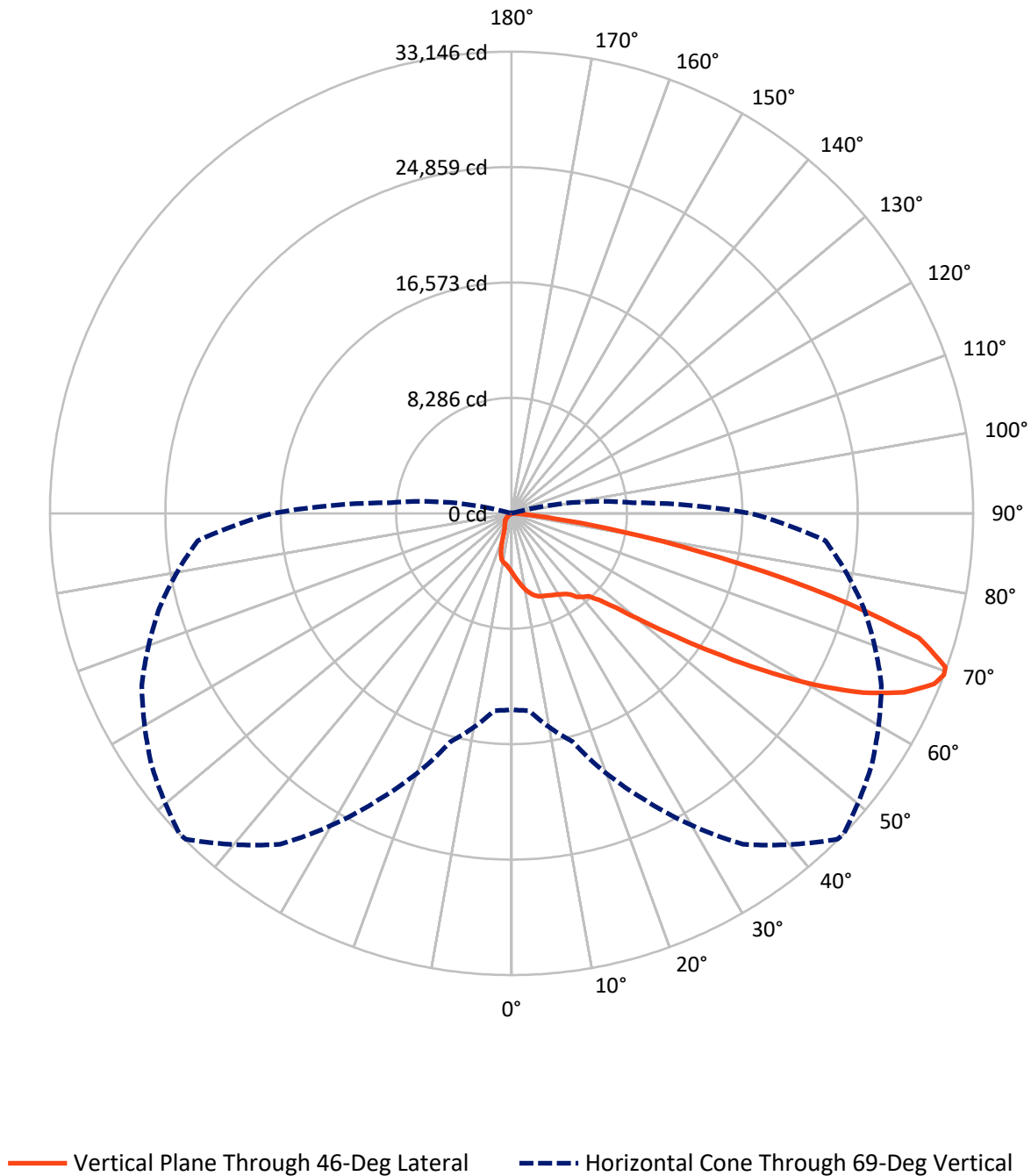
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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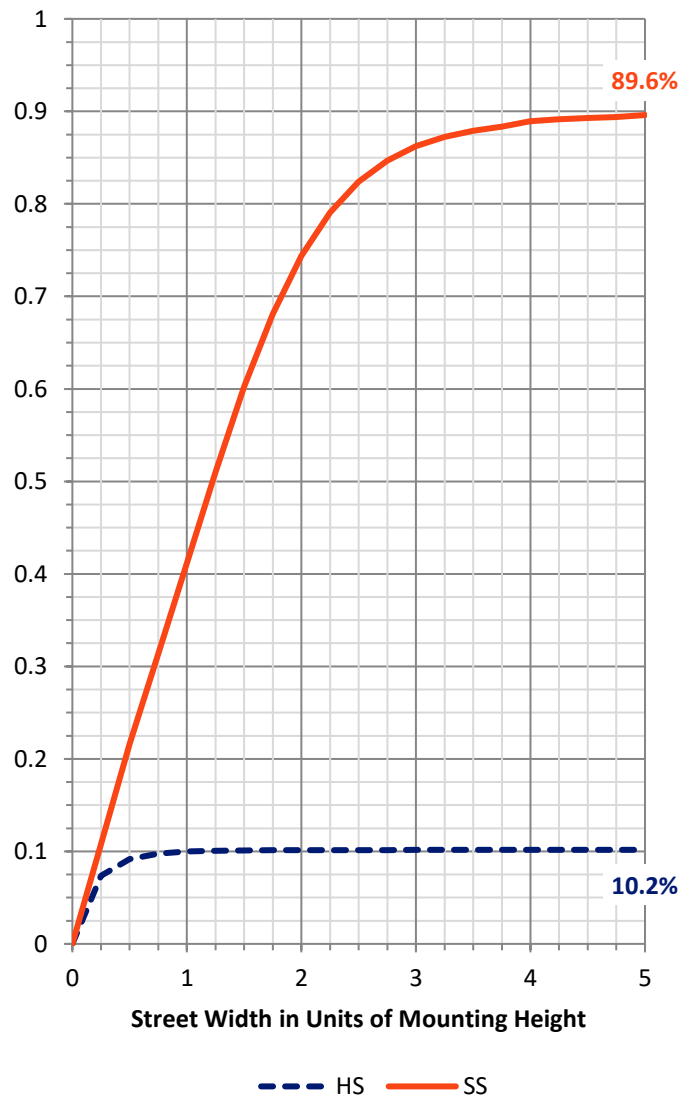
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4355.1	0.0	4355.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	38080.9	0.0	38080.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	42436.0	0.0	42436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.2	1.0
10°-20°	1283.9	3.0
20°-30°	2019.2	4.8
30°-40°	2895.5	6.8
40°-50°	5004.6	11.8
50°-60°	9887.0	23.3
60°-70°	13817.9	32.6
70°-80°	6675.6	15.7
80°-90°	429.1	1.0
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°	42436.0	100.0
0°-180°	42436.0	100.0

Coefficient of Utilization



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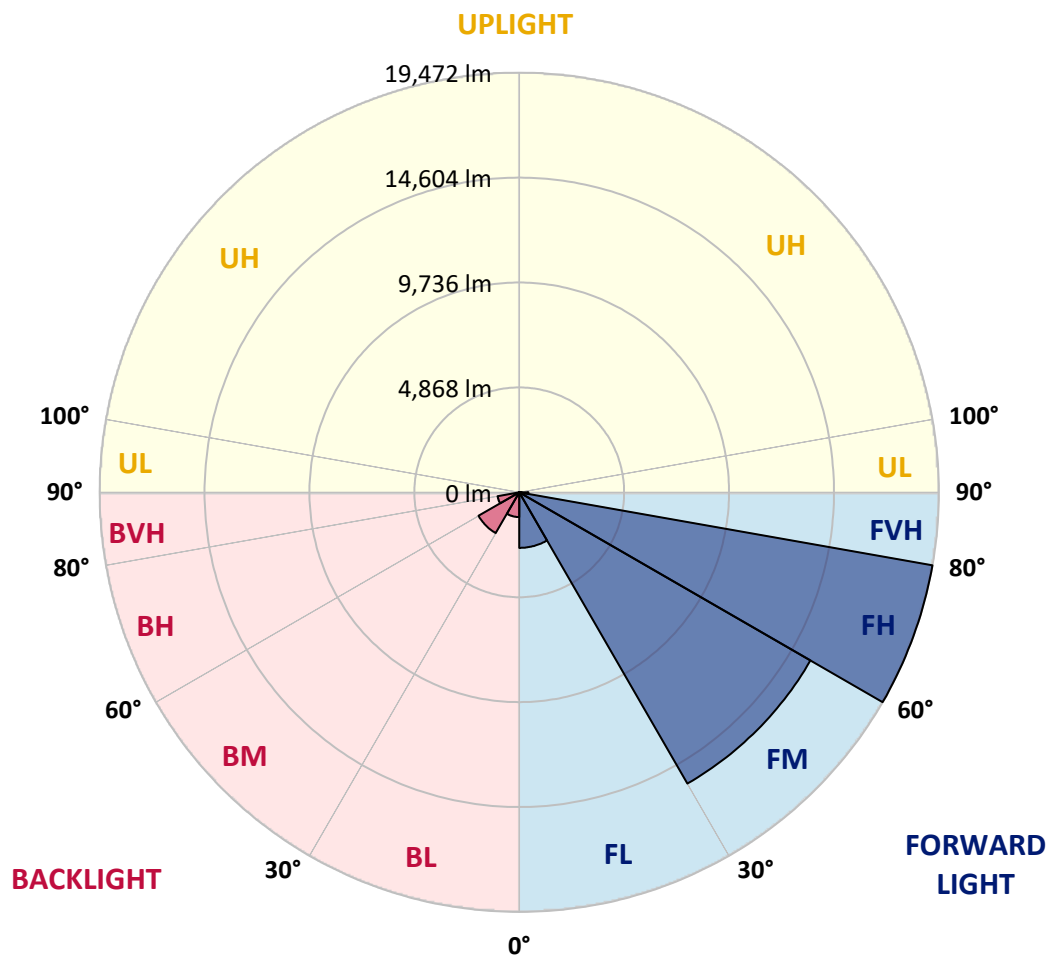
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2578.5	6.1			
FM	(30°-60°)	15604.7	36.8			
FH	(60°-80°)	19472.3	45.9			G5
FVH	(80°-90°)	425.5	1.0			G3/500
BL	(0°-30°)	1147.8	2.7	B3/2500		
BM	(30°-60°)	2182.4	5.1	B2/2500		
BH	(60°-80°)	1021.2	2.4	B3/2500		G3/2500
BVH	(80°-90°)	3.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9
2.5°	4723.5	4717.5	4689.7	4677.7	4610.1	4570.3	4554.4	4504.6	4433.0	4361.4	4281.8
5°	5260.7	5258.7	5207.0	5157.2	5029.9	4910.5	4888.6	4773.2	4612.1	4460.8	4309.6
7.5°	5809.8	5784.0	5732.2	5636.7	5451.7	5260.7	5242.8	5079.6	4850.8	4632.0	4415.1
10°	6275.4	6259.5	6191.9	6046.6	5829.7	5612.9	5591.0	5390.0	5131.4	4862.8	4586.2
12.5°	6637.5	6625.6	6536.1	6355.0	6124.2	5899.4	5869.5	5690.5	5413.9	5113.5	4787.2
15°	6858.4	6852.4	6743.0	6550.0	6323.2	6128.2	6102.3	5945.1	5688.5	5374.1	5006.0
17.5°	6910.1	6912.1	6798.7	6603.7	6416.7	6277.4	6257.5	6138.1	5923.3	5610.9	5224.9
20°	6794.7	6818.6	6717.1	6548.0	6432.6	6359.0	6343.1	6271.4	6090.4	5795.9	5400.0
22.5°	6631.6	6643.5	6573.9	6460.5	6412.7	6426.6	6418.7	6378.9	6225.7	5955.1	5573.1
25°	6532.1	6532.1	6490.3	6394.8	6426.6	6512.2	6514.2	6506.2	6384.9	6150.1	5784.0
27.5°	6528.1	6516.2	6468.4	6396.8	6484.3	6615.7	6623.6	6677.3	6601.7	6386.8	6046.6
30°	6687.3	6673.4	6571.9	6478.4	6589.8	6731.1	6751.0	6868.3	6830.5	6643.5	6339.1
32.5°	7059.4	7009.6	6784.8	6631.6	6715.1	6884.3	6910.1	7097.2	7156.8	6959.9	6621.6
35°	7568.7	7411.5	7087.2	6922.1	6930.0	7107.1	7131.0	7405.6	7582.6	7250.4	6840.5
37.5°	8271.1	8193.5	7666.2	7224.5	7260.3	7528.9	7598.6	7897.0	7847.3	7409.5	7089.2
40°	9811.1	9689.7	9128.6	8072.1	7576.7	7871.1	7893.0	8052.2	8056.2	7769.7	7606.5
42.5°	11908.2	11858.4	11267.5	9610.1	8199.4	8100.0	8139.7	8408.4	8708.8	8529.7	8521.8
45°	14230.1	14204.3	13577.5	11651.5	9458.9	8850.1	8899.8	9259.9	9834.9	9874.7	10127.4
47.5°	16098.4	16086.5	15726.4	13929.7	11386.9	10121.5	10137.4	10519.4	11530.1	12029.6	12433.5
50°	17801.6	17859.3	17574.8	16394.9	14013.3	12113.1	12075.3	12330.0	13953.6	14771.3	15272.7
52.5°	20169.3	20250.9	19453.0	18695.0	16769.0	14584.3	14554.4	14821.1	16866.4	17479.3	17568.8
55°	22260.4	22121.2	21490.4	21271.6	20129.5	17636.5	17628.5	17863.3	19683.8	19944.5	20109.6
57.5°	23183.7	23129.9	23434.4	23935.8	23649.2	21243.7	21225.8	21046.7	22204.7	22232.6	22740.0
60°	23766.6	23832.3	24765.4	26311.4	27025.7	25125.6	25010.2	23917.8	24612.2	24550.6	25093.7
62.5°	23328.9	23458.2	25137.5	27714.1	29552.6	28514.0	28350.8	26548.2	26669.6	26456.7	26962.0
65°	21005.0	21205.9	23957.6	27449.5	30806.1	31162.2	30997.1	28870.1	28303.1	27952.9	27672.4
67.5°	17055.5	17174.8	20047.9	25147.5	30241.0	32742.0	32708.2	30905.6	29536.7	27700.2	25523.5
69°	14094.8	14212.2	16977.9	22724.0	28997.5	33080.3	33145.9	31558.2	29301.9	26164.2	22614.6
70°	11938.0	12063.4	14640.0	20646.8	27555.0	32923.1	33040.5	31496.5	28629.4	24385.4	20061.9
72.5°	6261.5	6368.9	9013.2	14224.2	22463.4	30231.1	30587.2	28834.3	24268.0	17710.1	11862.4
75°	1967.8	2029.5	3519.7	7435.4	15380.2	23506.0	23587.6	22618.6	17232.5	9741.4	4940.4
77.5°	750.1	732.2	1171.9	2739.8	7775.6	14801.2	15300.6	14134.6	9043.1	3444.1	1140.1
80°	403.9	405.9	608.8	1134.1	3326.7	7606.5	8028.3	6850.4	3213.3	1074.4	262.6
82.5°	175.1	183.0	342.2	600.9	1528.1	2805.4	3016.3	2511.0	1227.6	722.3	97.5
85°	37.8	41.8	165.1	326.3	622.8	787.9	825.7	813.8	781.9	561.1	37.8
87.5°	0.0	0.0	73.6	117.4	157.2	179.1	157.2	204.9	431.8	378.0	19.9
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°	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9	4251.9
2.5°	4255.9	4220.1	4158.4	4090.8	4043.0	3993.3	3953.5	3935.6	3915.7	3901.7	3919.7
5°	4247.9	4178.3	4058.9	3943.5	3860.0	3792.3	3736.6	3714.7	3692.8	3676.9	3674.9
7.5°	4317.6	4220.1	4037.0	3867.9	3738.6	3647.1	3571.5	3539.6	3513.8	3501.8	3491.9
10°	4450.9	4325.5	4080.8	3860.0	3692.8	3537.6	3374.5	3249.1	3167.6	3129.8	3115.8
12.5°	4624.0	4466.8	4164.4	3901.7	3659.0	3360.6	3014.4	2715.9	2522.9	2459.2	2421.4
15°	4826.9	4632.0	4273.8	3955.5	3535.6	2990.5	2403.5	2013.5	1834.5	1798.7	1758.9
17.5°	5021.9	4807.0	4405.1	3965.4	3265.1	2389.6	1760.9	1496.2	1426.6	1450.5	1456.4
20°	5193.0	4980.1	4534.5	3877.9	2773.6	1792.7	1362.9	1297.3	1323.1	1368.9	1376.9
22.5°	5366.1	5147.3	4653.8	3647.1	2144.9	1360.9	1227.6	1243.5	1269.4	1315.2	1323.1
25°	5577.0	5350.2	4765.3	3223.3	1609.6	1158.0	1165.9	1189.8	1215.7	1257.5	1261.5
27.5°	5819.8	5606.9	4838.9	2672.1	1193.8	1064.5	1090.3	1126.2	1152.0	1191.8	1199.8
30°	6142.1	5945.1	4862.8	2101.1	1000.8	980.9	992.8	1036.6	1074.4	1110.2	1116.2
32.5°	6444.5	6279.4	4783.2	1585.8	927.2	903.3	903.3	929.2	972.9	1006.8	1014.7
35°	6723.1	6615.7	4528.5	1160.0	871.5	831.7	811.8	811.8	839.6	867.5	875.5
37.5°	7091.2	7087.2	4116.6	925.2	817.8	772.0	730.2	698.4	688.4	694.4	698.4
40°	7721.9	7727.9	3579.4	829.7	772.0	710.3	646.6	588.9	535.2	517.3	515.3
42.5°	8706.8	8617.3	3016.3	783.9	732.2	646.6	551.1	473.5	390.0	364.1	362.1
45°	10270.7	9739.4	2419.4	742.1	690.4	575.0	455.6	350.2	282.5	262.6	262.6
47.5°	12548.9	11213.8	1874.3	696.4	634.7	493.4	344.2	252.7	206.9	197.0	199.0
50°	14904.6	12658.3	1436.5	638.7	567.1	407.9	254.7	183.0	157.2	157.2	159.2
52.5°	16993.8	13716.8	1120.2	577.0	483.5	320.3	193.0	143.3	131.3	129.3	131.3
55°	18949.6	14399.3	857.5	505.4	384.0	238.8	147.2	117.4	109.4	105.5	103.5
57.5°	20835.8	14737.5	642.7	407.9	278.6	173.1	117.4	99.5	91.5	85.6	83.6
60°	22091.3	14462.9	441.7	300.4	193.0	125.3	97.5	85.6	75.6	69.6	67.6
62.5°	22799.6	13712.8	284.5	216.9	137.3	93.5	77.6	71.6	57.7	51.7	51.7
65°	22513.1	12475.2	199.0	155.2	99.5	69.6	57.7	57.7	41.8	33.8	31.8
67.5°	19950.4	10539.3	151.2	115.4	71.6	51.7	43.8	49.7	25.9	15.9	15.9
69°	17164.9	8734.7	129.3	95.5	59.7	41.8	37.8	45.8	17.9	11.9	9.9
70°	14918.6	7534.9	117.4	83.6	49.7	35.8	33.8	43.8	17.9	9.9	8.0
72.5°	8925.7	4202.2	89.5	59.7	31.8	27.9	27.9	49.7	17.9	9.9	8.0
75°	3607.3	1480.3	65.7	41.8	23.9	23.9	33.8	63.7	15.9	8.0	6.0
77.5°	817.8	324.3	37.8	25.9	15.9	23.9	39.8	49.7	9.9	4.0	0.0
80°	199.0	79.6	23.9	15.9	9.9	17.9	29.8	27.9	2.0	0.0	0.0
82.5°	65.7	27.9	9.9	8.0	2.0	6.0	13.9	8.0	0.0	0.0	0.0
85°	27.9	15.9	4.0	2.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0
87.5°	17.9	6.0	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)