

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: P322733

Luminaire Tested: **GAN-SA9C-830-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35683 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

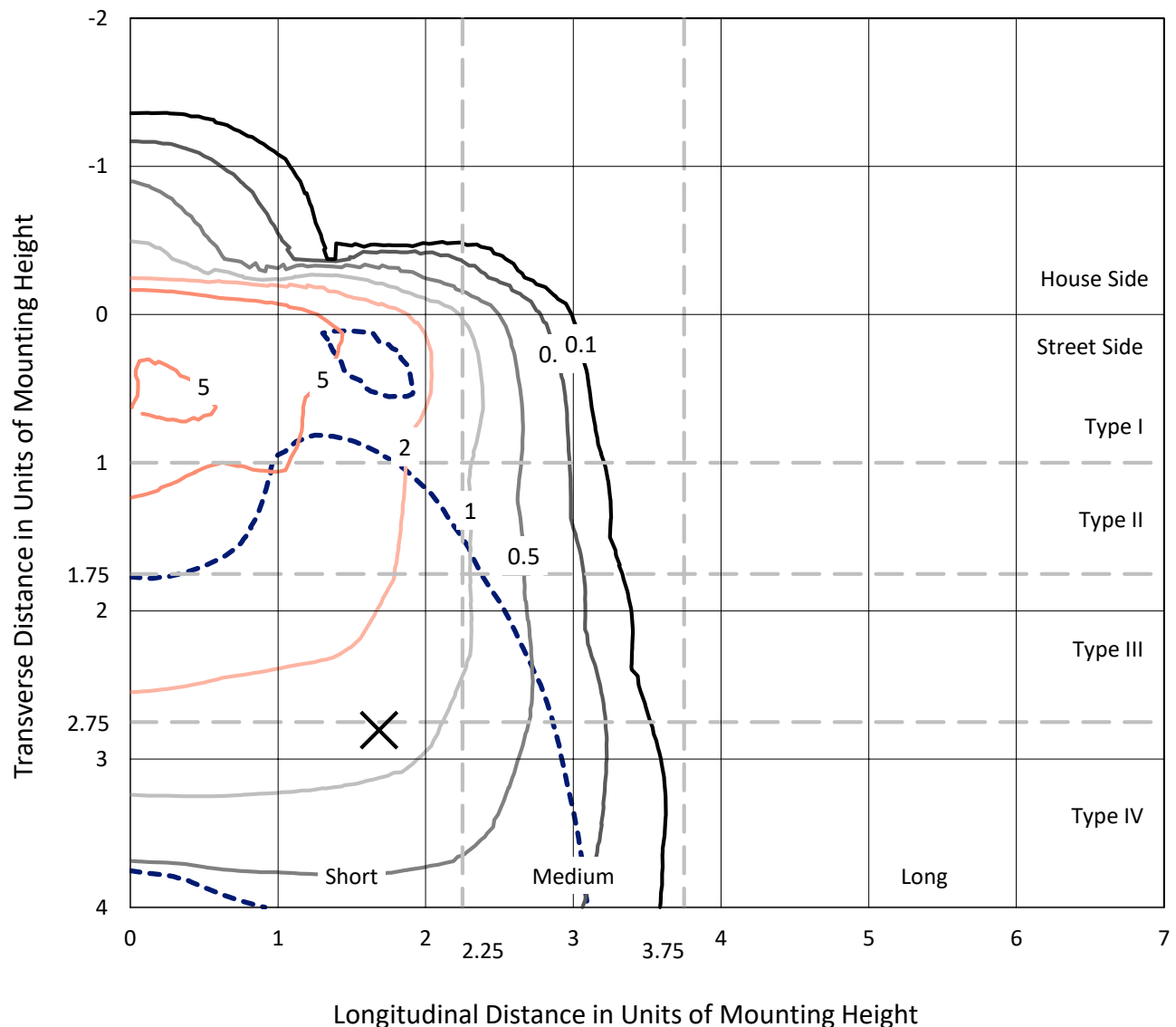
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

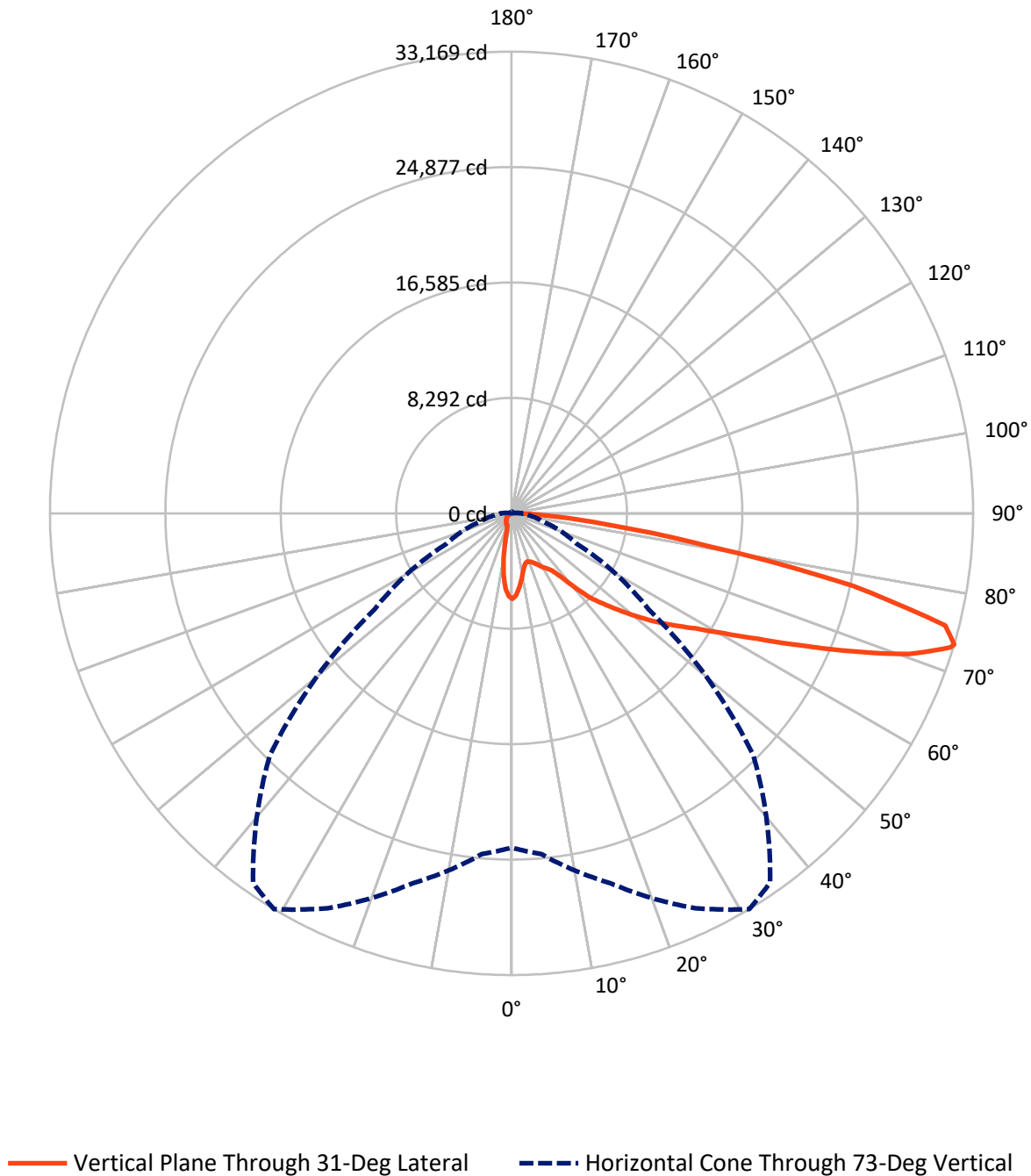
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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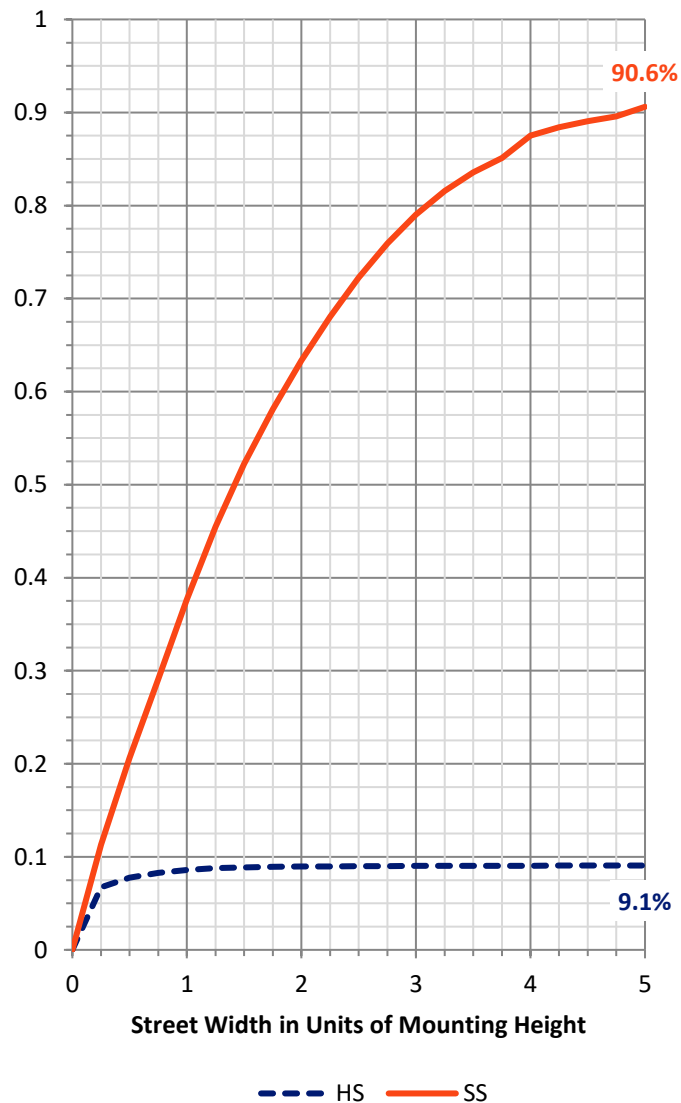
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3252.6	0.0	3252.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	32430.4	0.0	32430.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	35683.0	0.0	35683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.0	1.4
10°-20°	1105.3	3.1
20°-30°	1656.0	4.6
30°-40°	2634.7	7.4
40°-50°	4704.9	13.2
50°-60°	7300.6	20.5
60°-70°	9705.2	27.2
70°-80°	7300.2	20.5
80°-90°	767.1	2.1
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°	35683.0	100.0
0°-180°	35683.0	100.0

Coefficient of Utilization



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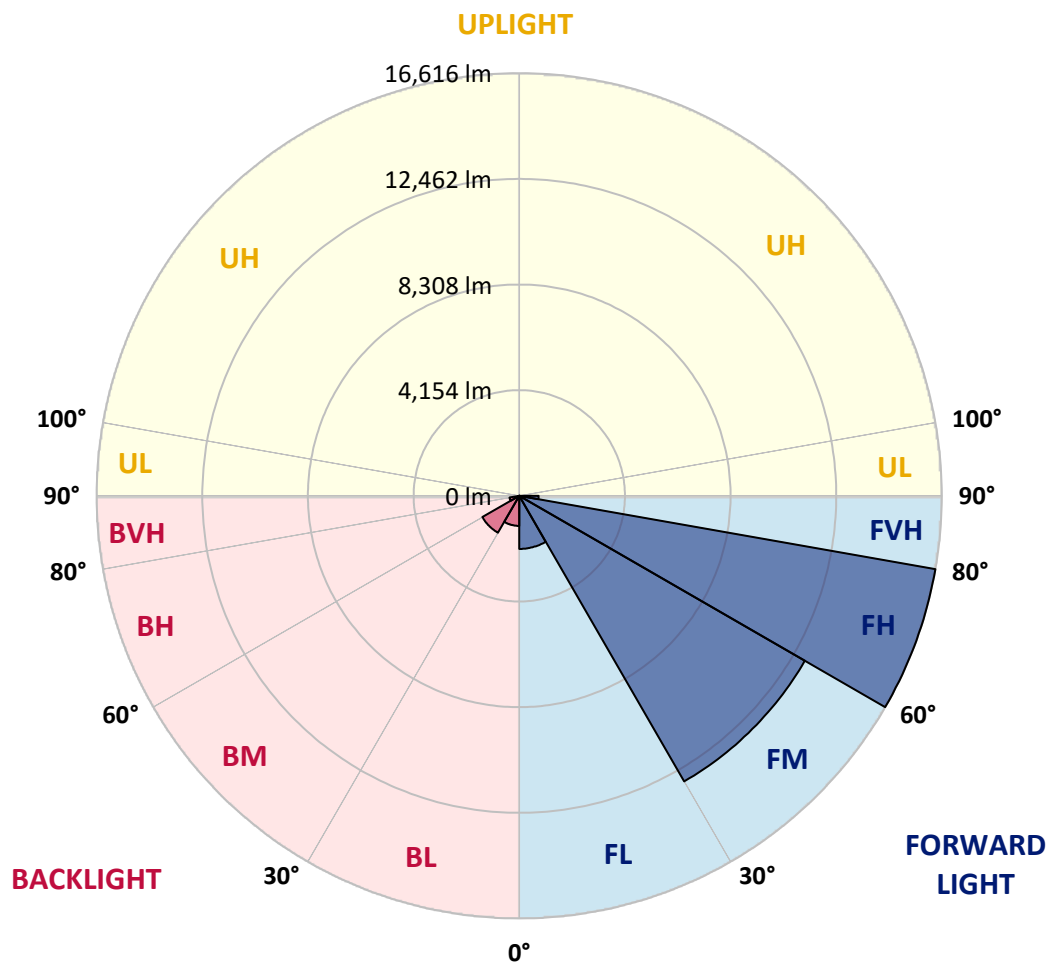
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2087.5	5.9			
FM	(30°-60°)	12966.0	36.3			
FH	(60°-80°)	16616.2	46.6			G5
FVH	(80°-90°)	760.7	2.1			G5
BL	(0°-30°)	1182.8	3.3	B3/2500		
BM	(30°-60°)	1674.2	4.7	B2/2500		
BH	(60°-80°)	389.2	1.1	B1/500		G1/500
BVH	(80°-90°)	6.5	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°	31°	35°	45°	55°	65°	75°	85°
0°	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3
2.5°	5818.0	5842.5	5868.7	5873.9	5917.6	5919.3	5982.2	6029.3	6076.5	6121.9	6137.6
5°	5220.9	5261.0	5308.2	5355.3	5447.9	5484.5	5638.2	5795.3	5945.5	6088.7	6158.5
7.5°	4583.5	4628.9	4695.3	4812.3	4915.3	4986.9	5229.6	5509.0	5788.4	6052.0	6203.9
10°	4002.1	4044.0	4113.8	4237.8	4396.7	4494.5	4821.0	5208.7	5619.0	6018.9	6272.0
12.5°	3631.9	3654.6	3693.0	3825.7	3968.9	4078.9	4463.1	4943.2	5479.3	6017.1	6382.0
15°	3563.8	3570.8	3539.4	3598.7	3710.5	3817.0	4206.4	4728.5	5372.8	6045.0	6525.2
17.5°	3672.1	3668.6	3563.8	3556.8	3645.9	3733.2	4080.7	4580.1	5297.7	6109.6	6710.3
20°	3836.2	3824.0	3642.4	3609.2	3703.5	3785.6	4071.9	4524.2	5269.8	6217.9	6935.6
22.5°	4054.5	4033.5	3748.9	3714.0	3815.3	3900.8	4180.2	4578.3	5294.2	6362.8	7197.5
25°	4325.1	4293.7	3932.2	3893.8	3996.9	4082.4	4374.0	4733.7	5367.6	6539.2	7529.2
27.5°	4630.7	4585.3	4225.6	4126.1	4243.1	4332.1	4632.4	4971.2	5482.8	6726.0	7936.1
30°	4918.8	4859.4	4534.7	4370.5	4513.7	4613.2	4911.8	5254.1	5667.9	7014.1	8493.1
32.5°	5208.7	5142.3	4810.5	4615.0	4744.2	4852.4	5199.9	5643.4	6015.4	7454.2	9233.4
35°	5875.7	5805.8	5399.0	5076.0	5074.2	5135.3	5603.3	6176.0	6474.6	8067.0	10117.0
37.5°	6998.4	6958.3	6570.6	5957.7	5793.6	5725.5	6153.3	6811.6	7134.6	8910.4	11114.0
40°	8227.7	8192.8	7758.0	7202.7	6953.0	6785.4	6942.5	7696.9	8067.0	9940.6	12132.0
42.5°	9615.8	9450.0	8674.7	8508.8	8285.3	8157.8	8016.4	8788.2	9212.5	11061.6	13141.2
45°	10876.5	10597.2	9591.4	9340.0	9289.3	9320.8	9399.3	10254.9	10501.1	12393.9	14147.0
47.5°	11627.4	11407.4	10635.6	10394.6	10380.6	10588.4	11182.1	11912.0	11784.5	13555.1	15032.3
50°	12341.5	12142.5	11501.6	11561.0	11625.6	11908.5	13205.9	13616.2	12956.2	14608.0	15844.2
52.5°	12919.5	12615.7	12280.4	12613.9	12931.7	13387.4	15294.2	15145.8	13787.3	15446.1	16539.2
55°	13253.0	13115.1	13277.4	13612.7	14209.9	14950.2	17265.6	16418.7	14395.0	16210.9	17001.9
57.5°	14475.3	14204.6	14527.7	14817.5	15596.3	16631.7	18954.1	17366.8	14833.2	16684.1	17108.4
60°	15954.2	15736.0	15926.3	16408.2	17459.4	18676.4	20532.5	18140.4	15062.0	16987.9	16832.5
62.5°	18308.0	18019.9	17901.2	18440.7	19834.1	21162.9	21730.4	18676.4	15011.3	16853.5	15886.1
65°	21461.5	21162.9	20632.1	21121.0	22893.3	23831.0	23069.6	18789.9	14662.1	15765.7	13494.0
67.5°	24691.8	24475.3	24021.3	24845.4	26444.9	26747.0	24485.7	18514.0	13537.6	12783.3	9533.8
70°	26825.5	26733.0	27028.1	28851.0	30277.6	30190.3	25784.9	17031.6	10551.8	7861.0	4716.3
72.5°	25287.2	25730.7	27909.9	31215.3	32957.9	32245.5	25117.8	13078.4	6031.1	3024.3	1363.7
73°	24012.5	24580.0	27513.5	31304.3	33169.2	32388.6	24557.3	12004.5	5140.6	2386.9	1033.7
75°	16705.1	17401.8	22778.0	29154.8	32180.9	30859.1	20469.7	7347.6	2381.7	1058.1	417.3
77.5°	8110.7	8625.8	12542.3	21065.1	25027.0	24110.3	12743.1	2737.9	1075.6	661.8	192.1
80°	3027.8	3366.5	5444.4	10721.1	14463.1	14842.0	5605.0	1035.4	715.9	532.6	97.8
82.5°	792.7	883.5	2008.0	4780.9	7412.2	7758.0	1767.1	522.1	523.8	438.3	59.4
85°	253.2	289.9	626.9	2146.0	3492.2	3066.2	461.0	253.2	380.7	326.5	33.2
87.5°	31.4	40.2	199.1	504.6	770.0	427.8	71.6	75.1	162.4	181.6	19.2
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°	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3	6139.3
2.5°	6153.3	6144.6	6146.3	6100.9	6071.2	6011.9	5950.8	5922.8	5893.1	5880.9	5893.1
5°	6184.7	6169.0	6123.6	5983.9	5835.5	5643.4	5463.6	5327.4	5156.3	5109.1	5158.0
7.5°	6233.6	6202.2	6069.5	5784.9	5454.9	5088.2	4676.1	4375.8	4129.6	3970.7	4028.3
10°	6305.2	6245.8	5978.7	5495.0	4904.8	4255.3	3670.3	3214.6	2891.6	2758.9	2753.6
12.5°	6425.7	6313.9	5866.9	5117.9	4232.6	3366.5	2600.0	2105.8	1843.9	1674.5	1671.0
15°	6558.4	6394.3	5725.5	4665.6	3450.3	2411.4	1674.5	1299.1	1129.7	1075.6	1068.6
17.5°	6720.8	6486.8	5542.2	4108.6	2631.4	1597.7	1093.1	984.8	977.8	972.6	972.6
20°	6925.1	6596.8	5306.4	3471.3	1866.6	1066.9	928.9	935.9	939.4	932.4	934.2
22.5°	7162.6	6708.6	5025.3	2786.8	1262.4	892.3	888.8	897.5	901.0	897.5	899.2
25°	7438.4	6837.8	4683.1	2069.1	911.5	846.9	855.6	867.8	876.5	876.5	876.5
27.5°	7780.7	6994.9	4271.0	1444.0	787.5	799.7	824.2	846.9	859.1	862.6	862.6
30°	8225.9	7190.5	3776.8	990.0	715.9	736.9	782.3	825.9	848.6	852.1	853.8
32.5°	8788.2	7410.5	3204.1	731.6	654.8	670.5	719.4	792.7	836.4	843.4	843.4
35°	9432.5	7665.4	2587.7	637.3	611.1	616.4	654.8	738.6	815.4	834.6	836.4
37.5°	10137.9	7916.9	1967.9	595.4	574.5	574.5	602.4	674.0	764.8	824.2	831.1
40°	10796.2	8068.8	1379.4	562.2	541.3	541.3	565.7	618.1	703.7	792.7	811.9
42.5°	11403.9	8121.2	960.4	530.8	509.9	515.1	536.1	578.0	642.6	731.6	749.1
45°	12029.0	8112.4	700.2	494.1	478.4	494.1	509.9	541.3	588.4	639.1	642.6
47.5°	12500.4	8039.1	555.3	459.2	448.8	469.7	483.7	504.6	530.8	527.3	527.3
50°	12942.2	7861.0	447.0	412.1	419.1	443.5	450.5	457.5	459.2	426.1	422.6
52.5°	13277.4	7583.4	358.0	361.4	389.4	413.8	406.8	396.4	378.9	338.7	331.8
55°	13389.2	7049.1	281.1	298.6	345.7	377.2	351.0	328.3	295.1	261.9	254.9
57.5°	13186.6	6359.3	228.7	232.2	291.6	317.8	288.1	261.9	225.2	197.3	192.1
60°	12757.1	5592.8	188.6	174.6	225.2	247.9	228.7	202.5	169.4	148.4	146.7
62.5°	11905.0	4775.6	155.4	136.2	171.1	190.3	178.1	158.9	131.0	117.0	115.2
65°	10113.5	3820.5	125.7	110.0	132.7	148.4	137.9	124.0	103.0	92.5	90.8
67.5°	7059.5	2582.5	103.0	90.8	104.8	117.0	108.3	101.3	82.1	80.3	82.1
70°	3404.9	1245.0	85.6	73.3	82.1	90.8	87.3	82.1	78.6	90.8	104.8
72.5°	976.1	417.3	68.1	61.1	66.4	71.6	75.1	73.3	85.6	110.0	127.5
73°	750.8	337.0	64.6	57.6	62.9	69.8	73.3	71.6	87.3	111.8	127.5
75°	321.3	162.4	48.9	47.1	52.4	61.1	64.6	64.6	87.3	113.5	122.2
77.5°	144.9	87.3	31.4	36.7	45.4	48.9	54.1	54.1	69.8	87.3	87.3
80°	82.1	47.1	24.4	27.9	33.2	33.2	33.2	29.7	31.4	34.9	38.4
82.5°	52.4	31.4	19.2	22.7	21.0	17.5	14.0	14.0	12.2	14.0	17.5
85°	29.7	17.5	17.5	14.0	8.7	7.0	8.7	7.0	1.7	0.0	1.7
87.5°	17.5	10.5	5.2	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)