

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: P322643

Luminaire Tested: **GAN-SA9B-760-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322643
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-SA9B-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA 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: 36280 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

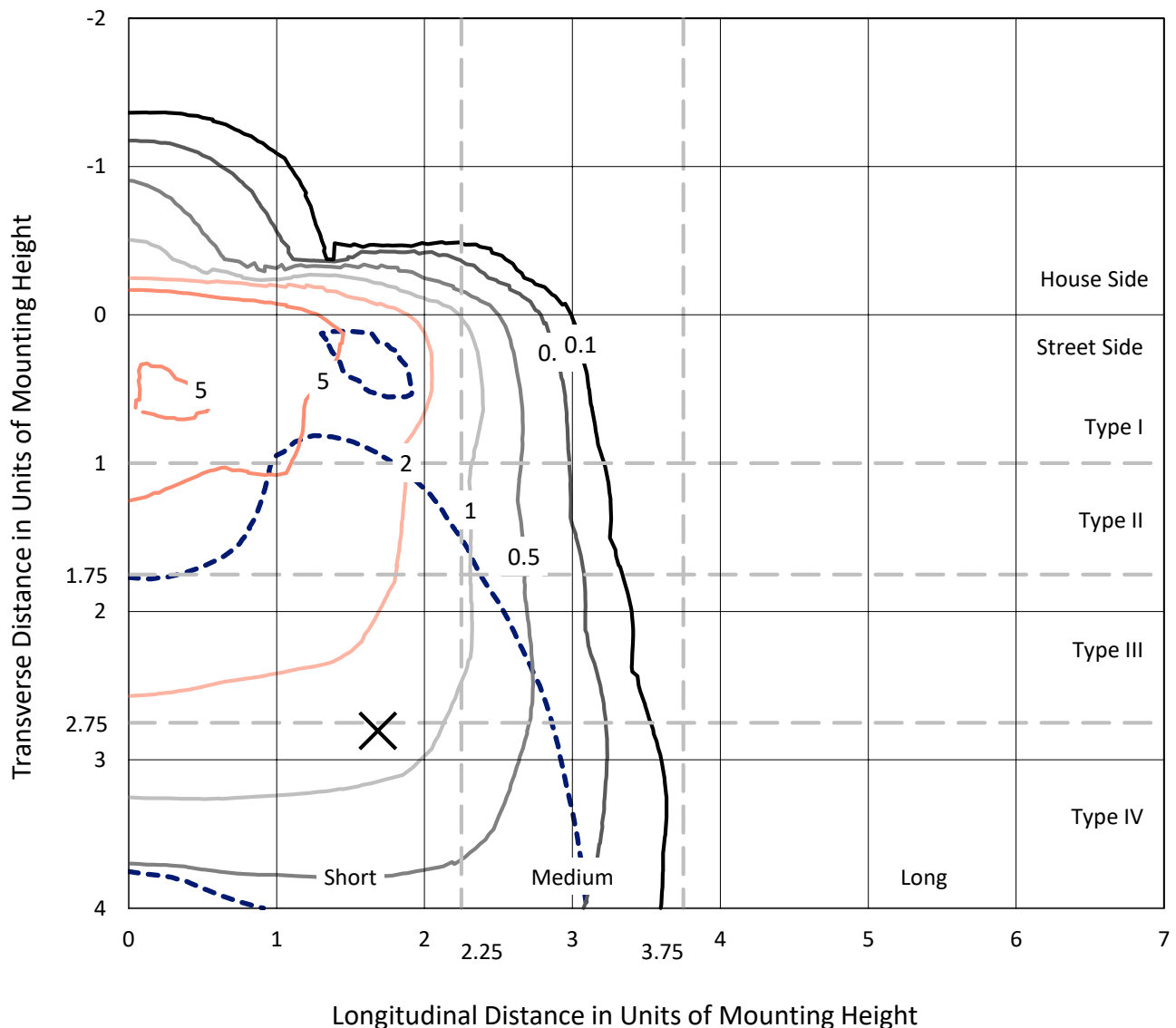
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

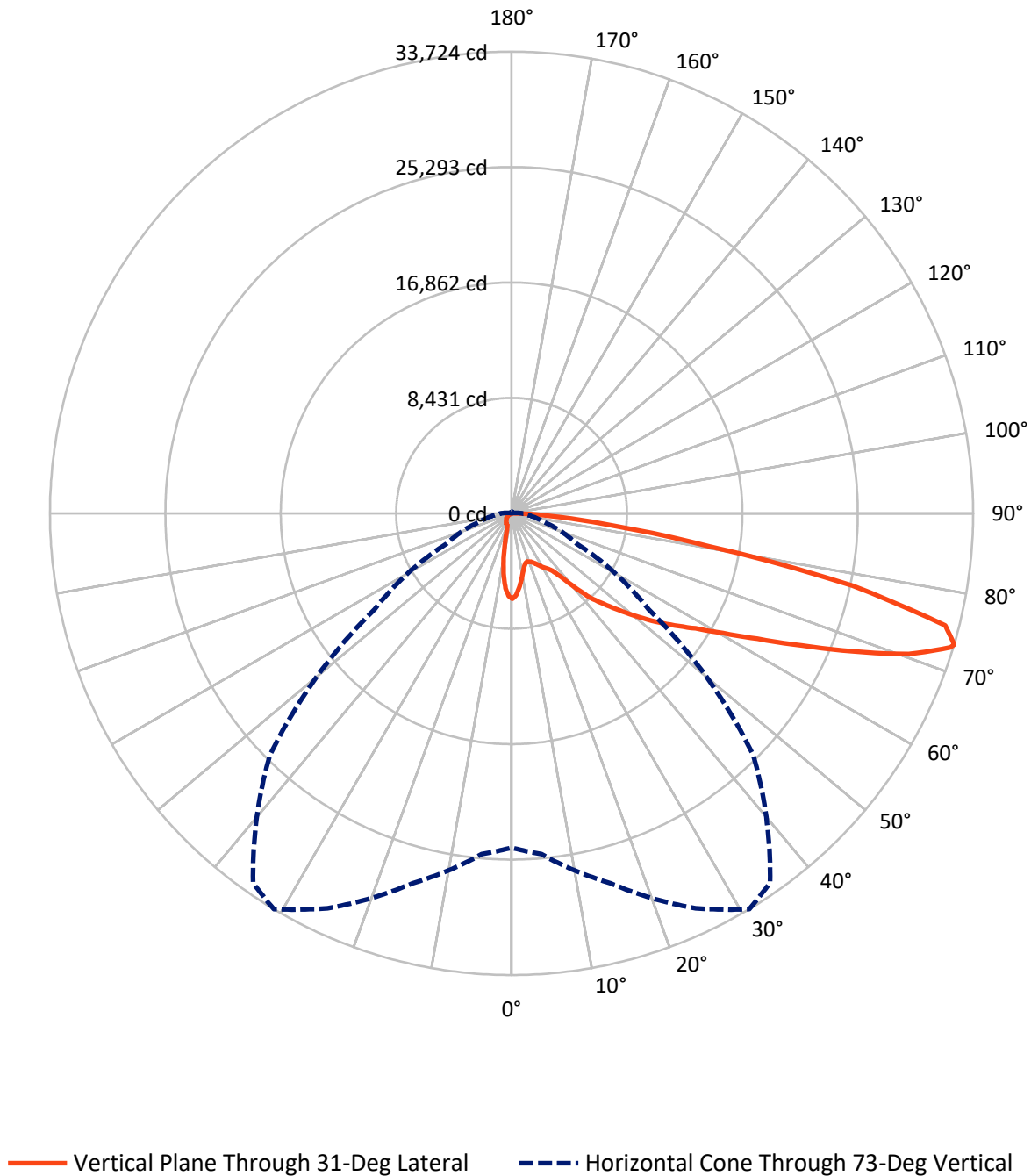
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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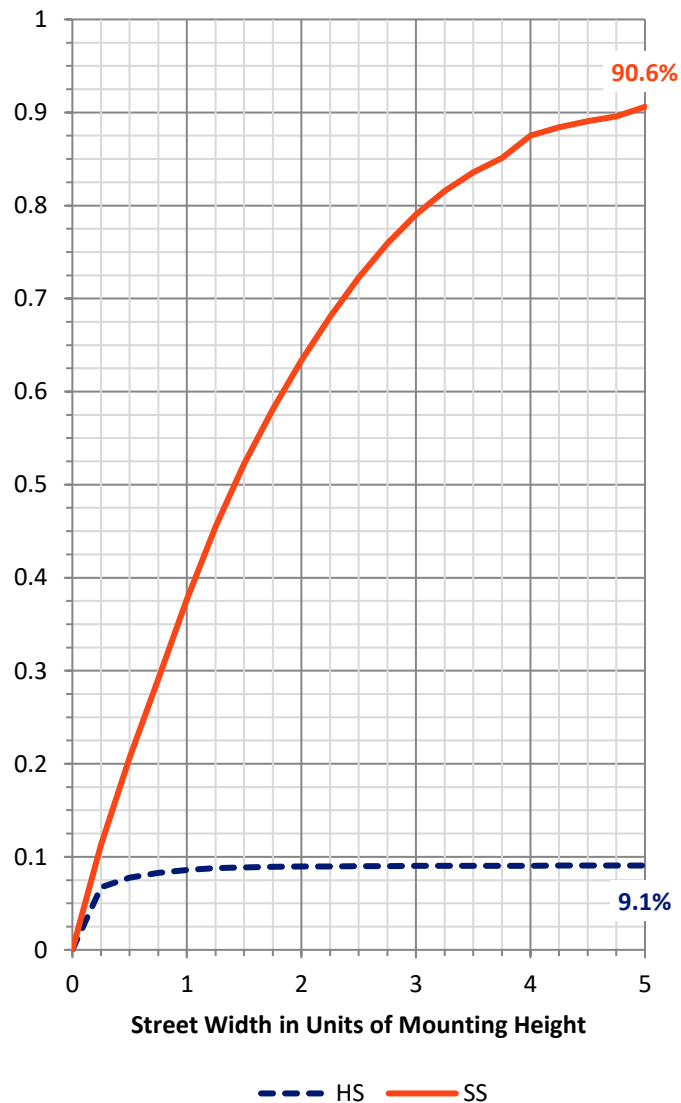
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3307.1	0.0	3307.1
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	32972.9	0.0	32972.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	36280.0	0.0	36280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.5	1.4
10°-20°	1123.8	3.1
20°-30°	1683.7	4.6
30°-40°	2678.8	7.4
40°-50°	4783.6	13.2
50°-60°	7422.8	20.5
60°-70°	9867.5	27.2
70°-80°	7422.4	20.5
80°-90°	779.9	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°	36280.0	100.0
0°-180°	36280.0	100.0

Coefficient of Utilization



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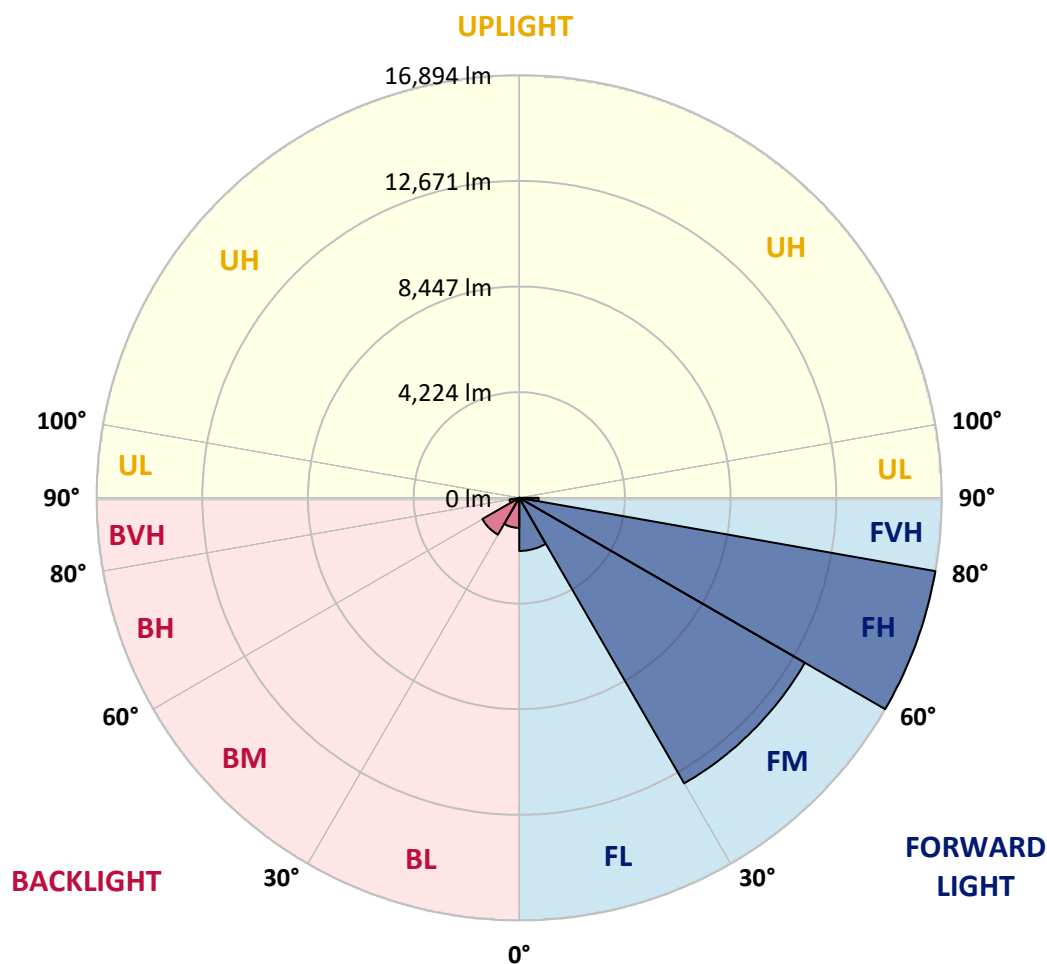
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2122.4	5.9			
FM	(30°-60°)	13182.9	36.3			
FH	(60°-80°)	16894.2	46.6			G5
FVH	(80°-90°)	773.4	2.1			G5
BL	(0°-30°)	1202.6	3.3	B3/2500		
BM	(30°-60°)	1702.2	4.7	B2/2500		
BH	(60°-80°)	395.7	1.1	B1/500		G1/500
BVH	(80°-90°)	6.6	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°	31°	35°	45°	55°	65°	75°	85°
0°	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0
2.5°	5915.4	5940.2	5966.9	5972.2	6016.6	6018.4	6082.3	6130.2	6178.1	6224.3	6240.3
5°	5308.2	5349.1	5397.0	5444.9	5539.0	5576.3	5732.5	5892.3	6045.0	6190.6	6261.6
7.5°	4660.2	4706.4	4773.9	4892.8	4997.5	5070.3	5317.1	5601.2	5885.2	6153.3	6307.7
10°	4069.0	4111.7	4182.7	4308.7	4470.3	4569.7	4901.7	5295.8	5713.0	6119.6	6377.0
12.5°	3692.7	3715.8	3754.8	3889.7	4035.3	4147.2	4537.7	5025.9	5571.0	6117.8	6488.8
15°	3623.4	3630.5	3598.6	3658.9	3772.6	3880.9	4276.8	4807.6	5462.7	6146.2	6634.4
17.5°	3733.5	3730.0	3623.4	3616.3	3706.9	3795.6	4148.9	4656.7	5386.3	6211.9	6822.6
20°	3900.4	3888.0	3703.3	3669.6	3765.5	3848.9	4140.1	4599.9	5357.9	6321.9	7051.6
22.5°	4122.3	4101.0	3811.6	3776.1	3879.1	3966.1	4250.1	4654.9	5382.8	6469.3	7317.9
25°	4397.5	4365.5	3998.0	3959.0	4063.7	4150.7	4447.2	4812.9	5457.4	6648.6	7655.2
27.5°	4708.2	4662.0	4296.3	4195.1	4314.0	4404.6	4709.9	5054.4	5574.5	6838.6	8068.9
30°	5001.1	4940.7	4610.5	4443.6	4589.2	4690.4	4994.0	5342.0	5762.7	7131.5	8635.2
32.5°	5295.8	5228.3	4891.0	4692.2	4823.6	4933.6	5286.9	5737.9	6116.0	7578.9	9387.9
35°	5974.0	5903.0	5489.3	5160.9	5159.1	5221.2	5697.0	6279.3	6582.9	8202.0	10286.2
37.5°	7115.5	7074.7	6680.6	6057.4	5890.5	5821.3	6256.3	6925.5	7254.0	9059.5	11300.0
40°	8365.3	8329.8	7887.8	7323.2	7069.4	6898.9	7058.7	7825.6	8202.0	10106.9	12335.0
42.5°	9776.7	9608.1	8819.8	8651.2	8423.9	8294.3	8150.5	8935.2	9366.6	11246.7	13361.1
45°	11058.5	10774.5	9751.9	9496.2	9444.7	9476.7	9556.6	10426.5	10676.8	12601.3	14383.7
47.5°	11821.9	11598.2	10813.5	10568.5	10554.3	10765.6	11369.2	12111.3	11981.7	13781.9	15283.8
50°	12548.0	12345.6	11694.1	11754.4	11820.1	12107.7	13426.8	13844.0	13172.9	14852.4	16109.3
52.5°	13135.6	12826.7	12485.9	12825.0	13148.1	13611.4	15550.1	15399.2	14018.0	15704.5	16815.9
55°	13474.7	13334.5	13499.6	13840.4	14447.6	15200.3	17554.4	16693.4	14635.8	16482.1	17286.4
57.5°	14717.5	14442.3	14770.7	15065.4	15857.2	16910.0	19271.2	17657.4	15081.4	16963.2	17394.7
60°	16221.2	15999.2	16192.8	16682.7	17751.5	18988.9	20876.1	18443.9	15314.0	17272.2	17114.1
62.5°	18614.3	18321.4	18200.6	18749.2	20165.9	21517.0	22093.9	18988.9	15262.5	17135.5	16151.9
65°	21820.5	21517.0	20977.3	21474.4	23276.3	24229.7	23455.6	19104.3	14907.4	16029.4	13719.7
67.5°	25104.9	24884.8	24423.2	25261.1	26887.3	27194.5	24895.4	18823.8	13764.1	12997.2	9693.3
70°	27274.3	27180.3	27480.3	29333.7	30784.2	30695.4	26216.2	17316.5	10728.3	7992.5	4795.2
72.5°	25710.3	26161.2	28376.8	31737.5	33509.3	32785.0	25538.1	13297.2	6132.0	3074.9	1386.5
73°	24414.3	24991.3	27973.8	31828.1	33724.1	32930.5	24968.2	12205.4	5226.6	2426.9	1051.0
75°	16984.5	17692.9	23159.1	29642.6	32719.3	31375.3	20812.2	7470.6	2421.5	1075.8	424.3
77.5°	8246.4	8770.1	12752.2	21417.5	25445.8	24513.7	12956.3	2783.7	1093.6	672.8	195.3
80°	3078.4	3422.8	5535.5	10900.5	14705.0	15090.3	5698.8	1052.8	727.9	541.5	99.4
82.5°	806.0	898.3	2041.6	4860.8	7536.3	7887.8	1796.6	530.8	532.6	445.6	60.4
85°	257.4	294.7	637.3	2181.9	3550.7	3117.5	468.7	257.4	387.0	332.0	33.7
87.5°	32.0	40.8	202.4	513.1	782.9	435.0	72.8	76.3	165.1	184.6	19.5
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°	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0	6242.0
2.5°	6256.3	6247.4	6249.1	6203.0	6172.8	6112.4	6050.3	6021.9	5991.7	5979.3	5991.7
5°	6288.2	6272.2	6226.1	6084.0	5933.1	5737.9	5555.0	5416.5	5242.5	5194.6	5244.3
7.5°	6337.9	6306.0	6171.0	5881.7	5546.1	5173.3	4754.3	4449.0	4198.6	4037.1	4095.7
10°	6410.7	6350.3	6078.7	5587.0	4986.9	4326.5	3731.7	3268.4	2939.9	2805.0	2799.7
12.5°	6533.2	6419.6	5965.1	5203.5	4303.4	3422.8	2643.5	2141.0	1874.7	1702.5	1699.0
15°	6668.1	6501.2	5821.3	4743.7	3508.0	2451.7	1702.5	1320.8	1148.6	1093.6	1086.5
17.5°	6833.2	6595.3	5634.9	4177.3	2675.4	1624.4	1111.4	1001.3	994.2	988.9	988.9
20°	7040.9	6707.2	5395.2	3529.3	1897.8	1084.7	944.5	951.6	955.1	948.0	949.8
22.5°	7282.4	6820.8	5109.4	2833.4	1283.6	907.2	903.6	912.5	916.1	912.5	914.3
25°	7562.9	6952.2	4761.4	2103.8	926.7	861.0	869.9	882.3	891.2	891.2	891.2
27.5°	7910.9	7112.0	4342.4	1468.2	800.7	813.1	838.0	861.0	873.5	877.0	877.0
30°	8363.6	7310.8	3840.0	1006.6	727.9	749.2	795.3	839.7	862.8	866.4	868.1
32.5°	8935.2	7534.5	3257.7	743.9	665.7	681.7	731.4	806.0	850.4	857.5	857.5
35°	9590.3	7793.7	2631.0	648.0	621.4	626.7	665.7	751.0	829.1	848.6	850.4
37.5°	10307.5	8049.3	2000.8	605.4	584.1	584.1	612.5	685.3	777.6	838.0	845.1
40°	10976.8	8203.8	1402.5	571.7	550.4	550.4	575.2	628.5	715.5	806.0	825.5
42.5°	11594.7	8257.0	976.4	539.7	518.4	523.7	545.0	587.6	653.3	743.9	761.6
45°	12230.2	8248.2	711.9	502.4	486.4	502.4	518.4	550.4	598.3	649.8	653.3
47.5°	12709.6	8173.6	564.6	466.9	456.3	477.6	491.8	513.1	539.7	536.1	536.1
50°	13158.7	7992.5	454.5	419.0	426.1	450.9	458.0	465.1	466.9	433.2	429.6
52.5°	13499.6	7710.2	363.9	367.5	395.9	420.8	413.7	403.0	385.2	344.4	337.3
55°	13613.2	7167.0	285.8	303.6	351.5	383.5	356.8	333.8	300.0	266.3	259.2
57.5°	13407.3	6465.7	232.6	236.1	296.5	323.1	292.9	266.3	229.0	200.6	195.3
60°	12970.5	5686.4	191.7	177.5	229.0	252.1	232.6	205.9	172.2	150.9	149.1
62.5°	12104.2	4855.5	158.0	138.5	174.0	193.5	181.1	161.6	133.1	118.9	117.2
65°	10282.7	3884.4	127.8	111.8	134.9	150.9	140.3	126.0	104.7	94.1	92.3
67.5°	7177.6	2625.7	104.7	92.3	106.5	118.9	110.1	103.0	83.4	81.7	83.4
70°	3461.9	1265.8	87.0	74.6	83.4	92.3	88.8	83.4	79.9	92.3	106.5
72.5°	992.4	424.3	69.2	62.1	67.5	72.8	76.3	74.6	87.0	111.8	129.6
73°	763.4	342.6	65.7	58.6	63.9	71.0	74.6	72.8	88.8	113.6	129.6
75°	326.7	165.1	49.7	47.9	53.3	62.1	65.7	65.7	88.8	115.4	124.3
77.5°	147.4	88.8	32.0	37.3	46.2	49.7	55.0	55.0	71.0	88.8	88.8
80°	83.4	47.9	24.9	28.4	33.7	33.7	33.7	30.2	32.0	35.5	39.1
82.5°	53.3	32.0	19.5	23.1	21.3	17.8	14.2	14.2	12.4	14.2	17.8
85°	30.2	17.8	17.8	14.2	8.9	7.1	8.9	7.1	1.8	0.0	1.8
87.5°	17.8	10.7	5.3	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)