

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: P323621

Luminaire Tested: **GAN-SA7D-760-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323621
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1200mA 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: 46886 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

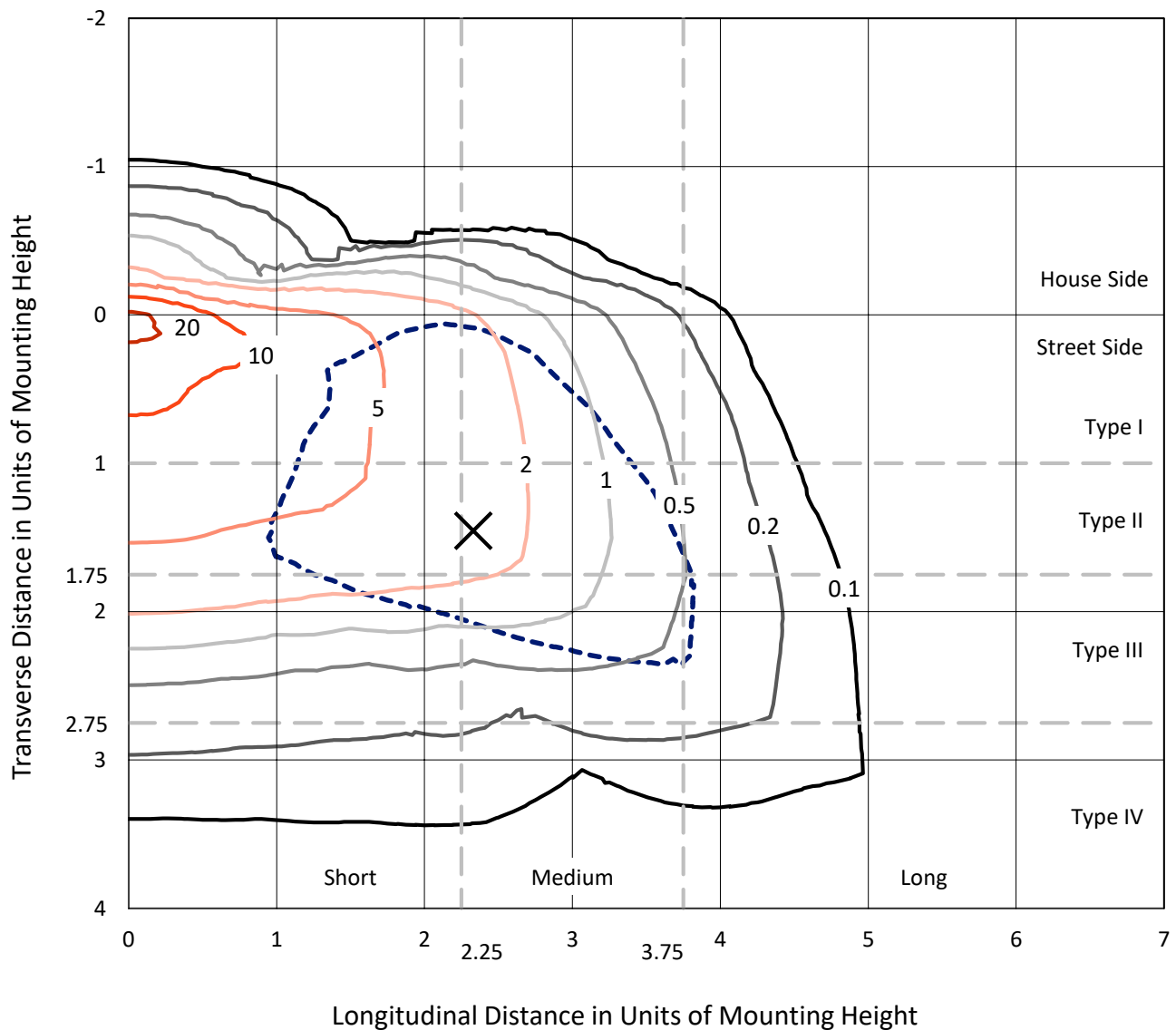
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

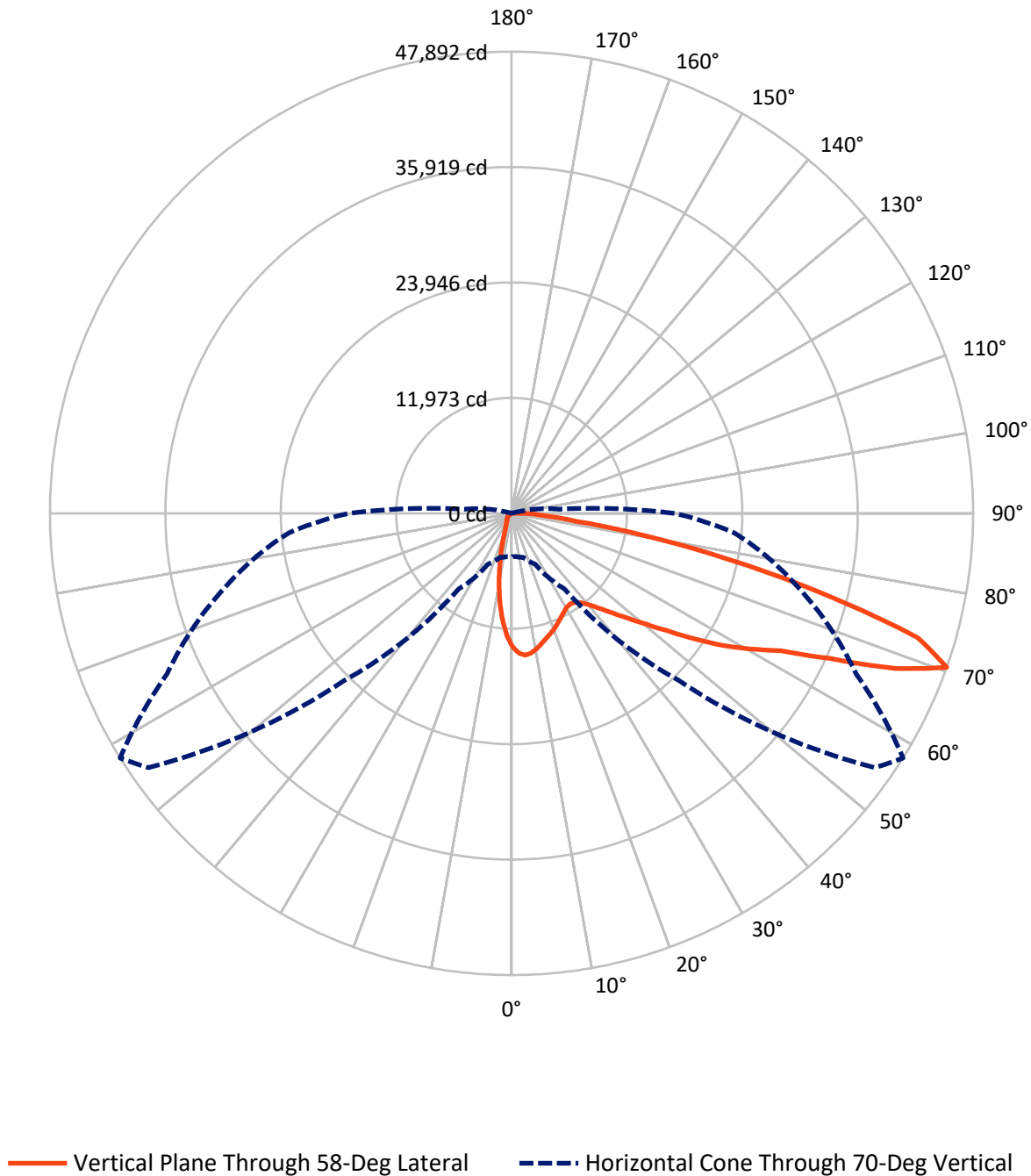
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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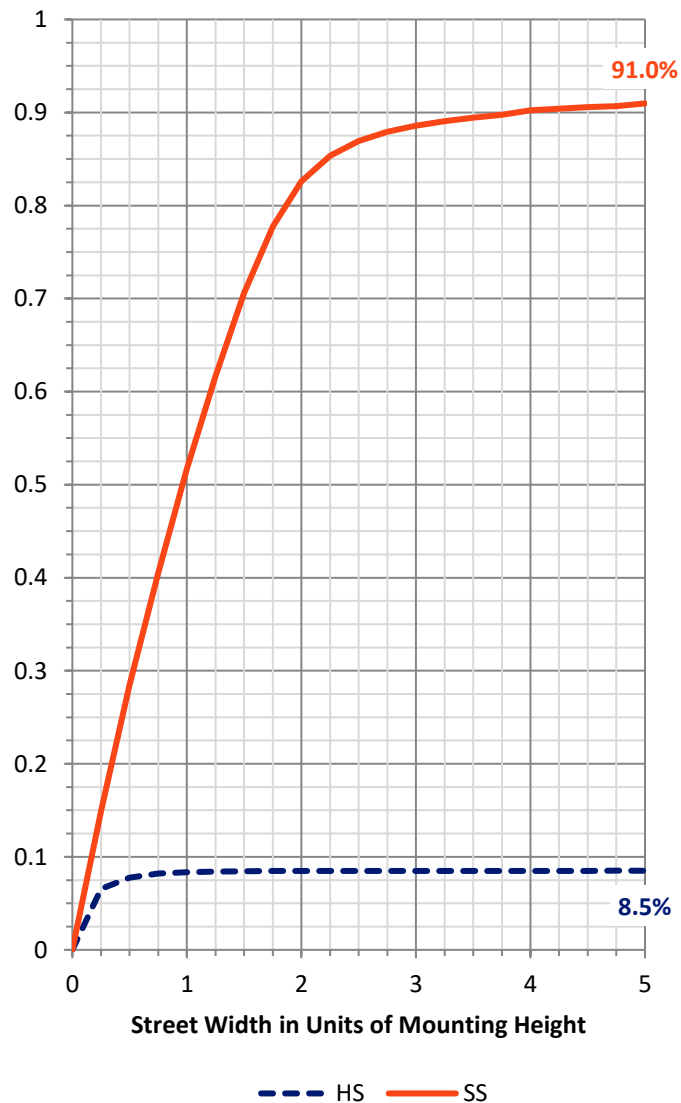
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4012.4	0.0	4012.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	42873.6	0.0	42873.6
	% Fixture	91.4	0.0	91.4
Total	Lumens	46886.0	0.0	46886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1132.6	2.4
10°-20°	2377.0	5.1
20°-30°	3124.9	6.7
30°-40°	4138.6	8.8
40°-50°	6186.0	13.2
50°-60°	9909.7	21.1
60°-70°	12491.0	26.6
70°-80°	6737.6	14.4
80°-90°	788.7	1.7
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°	46886.0	100.0
0°-180°	46886.0	100.0

Coefficient of Utilization



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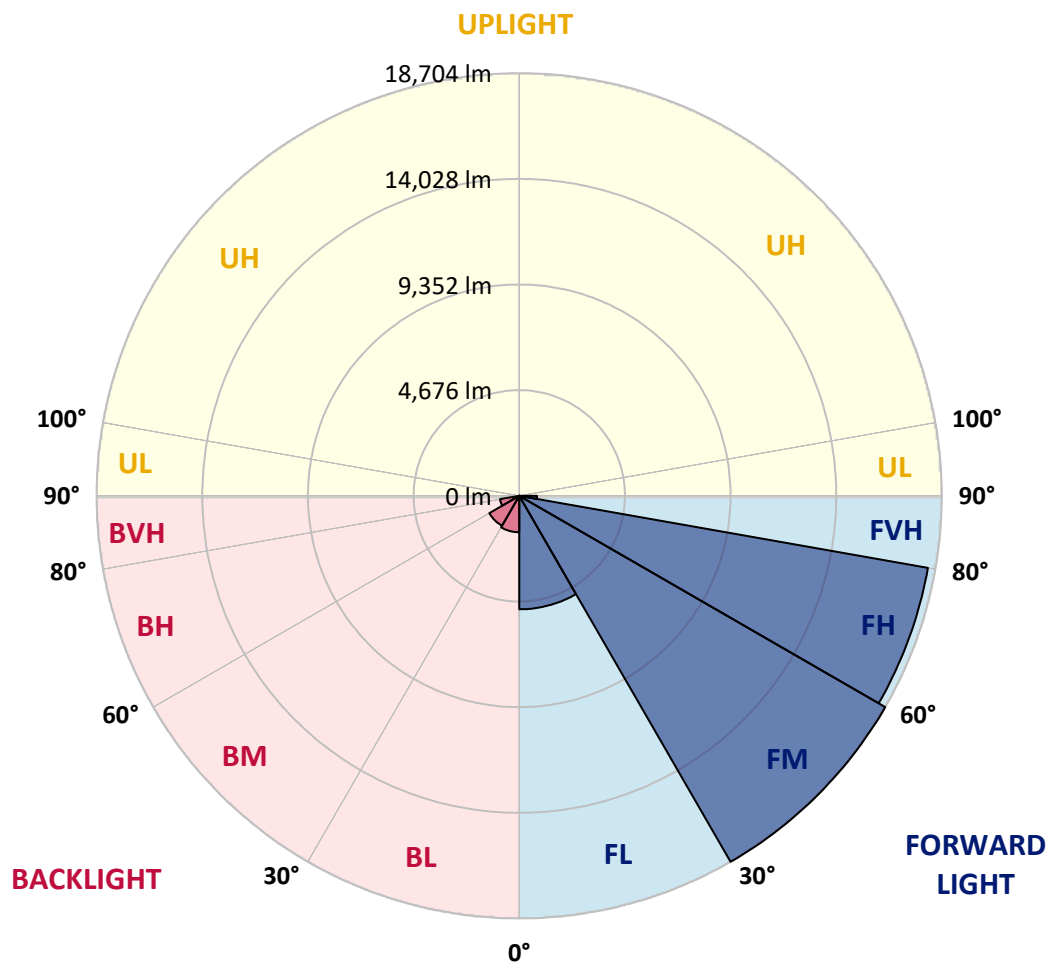
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5022.5	10.7			
FM	(30°-60°)	18703.5	39.9			
FH	(60°-80°)	18365.7	39.2			G5
FVH	(80°-90°)	781.9	1.7			G5
BL	(0°-30°)	1612.0	3.4	B3/2500		
BM	(30°-60°)	1530.7	3.3	B2/2500		
BH	(60°-80°)	862.9	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.8	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9
2.5°	14998.2	14961.2	14947.5	14924.1	14834.4	14746.7	14573.2	14524.5	14415.3	14156.0	13881.1
5°	15009.9	15008.0	15048.9	15039.2	15008.0	14967.0	14842.2	14777.9	14592.7	14222.3	13719.3
7.5°	14286.6	14323.7	14415.3	14489.4	14575.2	14686.3	14701.9	14639.5	14487.4	14087.8	13421.0
10°	13315.7	13374.2	13502.9	13649.1	13873.3	14095.6	14294.4	14286.6	14234.0	13840.2	13062.3
12.5°	12342.9	12411.1	12559.3	12775.7	13093.5	13456.1	13810.9	13859.7	13947.4	13617.9	12730.8
15°	11490.9	11549.4	11695.6	11960.7	12354.6	12842.0	13362.5	13452.2	13678.3	13444.4	12454.0
17.5°	10767.6	10804.6	10911.9	11206.3	11662.5	12253.2	12929.7	13105.2	13442.4	13307.9	12214.2
20°	10262.7	10268.5	10338.7	10545.3	11001.5	11662.5	12481.3	12732.8	13192.9	13190.9	11966.6
22.5°	10013.1	9993.6	10007.3	10126.2	10461.5	11099.0	12032.9	12331.2	12968.7	13091.5	11715.1
25°	9966.3	9950.7	9911.7	9927.3	10130.1	10605.8	11580.6	11925.7	12771.8	13031.1	11496.7
27.5°	10112.5	10128.1	10061.8	9991.7	10007.3	10286.0	11179.0	11578.6	12611.9	13031.1	11342.7
30°	10406.9	10414.7	10366.0	10274.4	10151.5	10196.4	10900.2	11299.8	12532.0	13120.8	11245.2
32.5°	10732.5	10775.4	10769.5	10695.5	10520.0	10338.7	10833.9	11198.5	12526.1	13319.6	11235.5
35°	11136.1	11184.8	11266.7	11251.1	11067.8	10769.5	11060.0	11346.6	12641.2	13647.1	11340.8
37.5°	11565.0	11639.1	11814.5	11898.4	11779.4	11442.2	11566.9	11771.6	12949.2	14177.4	11607.9
40°	11980.2	12064.1	12383.8	12713.3	12623.6	12276.6	12335.1	12498.8	13497.0	14939.7	12114.8
42.5°	12387.7	12512.5	12982.3	13524.3	13631.5	13354.7	13385.9	13516.5	14310.0	15988.6	12943.3
45°	12875.1	13015.5	13711.5	14380.2	14666.8	14545.9	14678.5	14764.3	15372.5	17374.8	14060.5
47.5°	13590.6	13752.4	14606.3	15368.6	15871.6	15949.6	16216.7	16273.2	16715.8	18989.0	15516.8
50°	14986.5	15031.4	15803.4	16495.5	17220.7	17688.6	17992.8	18035.7	18341.8	20753.4	17335.8
52.5°	16743.1	16772.3	17209.0	17673.1	18497.7	19453.0	20164.6	20225.1	20289.4	22472.9	19131.3
55°	18488.0	18484.1	18772.6	19045.6	19989.2	21377.3	22921.4	22958.4	22496.3	24104.8	20503.9
57.5°	19577.8	19683.1	20121.7	20472.7	21790.6	23570.6	25713.2	25849.6	24814.4	25313.5	21860.8
60°	19230.8	19281.5	20254.3	21552.7	24034.6	26688.0	28538.1	28573.2	26557.3	26520.3	23576.4
62.5°	16384.4	16411.7	17940.1	20616.9	25171.2	30731.4	31946.0	31374.8	28561.5	28195.0	25629.3
65°	11229.7	11407.1	12684.0	15992.5	23083.2	33267.8	37221.6	36276.1	31616.5	30608.6	27485.3
67.5°	6613.0	6576.0	7207.6	9644.6	16953.7	31583.4	43895.1	42955.4	35782.8	32224.8	26941.4
70°	4517.2	4491.9	4733.6	5839.0	9570.5	24500.5	45994.8	47891.7	39461.7	31136.9	23186.5
72.5°	3224.6	3238.3	3595.0	4536.7	6008.6	14274.9	39553.3	44043.2	38309.5	27144.2	17624.3
75°	2189.4	2226.4	2737.2	3721.8	5267.8	7262.2	28068.3	33480.3	31195.4	19727.9	10130.1
77.5°	1177.6	1218.5	1820.9	2998.5	4762.9	5045.5	18055.2	23042.2	19595.4	8868.7	2936.1
80°	491.3	514.7	852.0	2179.6	4115.6	4431.4	10623.3	13972.7	8350.1	1748.8	655.1
82.5°	212.5	224.2	354.8	1300.4	3076.5	3741.3	5624.6	6722.2	2530.6	384.1	329.5
85°	40.9	42.9	146.2	688.2	1963.2	2111.4	3645.7	3573.6	1136.6	165.7	239.8
87.5°	0.0	0.0	35.1	216.4	577.1	1150.3	2224.5	2197.2	386.0	79.9	89.7
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°	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9	13849.9
2.5°	13740.7	13606.2	13323.5	12974.5	12707.4	12413.1	12179.1	11882.8	11754.1	11759.9	11689.8
5°	13432.7	13155.8	12530.0	11740.4	11132.2	10504.4	9964.4	9426.3	9108.5	9005.2	8907.7
7.5°	12992.1	12553.4	11555.2	10338.7	9309.3	8303.3	7427.9	6657.9	6170.5	5932.6	5844.9
10°	12494.9	11878.9	10434.2	8831.7	7361.7	6000.8	4866.2	3879.7	3485.9	3218.8	3150.5
12.5°	12058.2	11223.8	9338.5	7285.6	5540.7	3899.2	2817.2	2203.0	1935.9	1830.7	1813.1
15°	11646.9	10611.6	8283.8	5885.8	3836.8	2399.9	1791.7	1583.1	1520.7	1503.1	1503.1
17.5°	11258.9	10028.7	7252.5	4507.5	2538.4	1682.5	1483.6	1436.8	1417.4	1415.4	1417.4
20°	10853.4	9445.8	6238.7	3302.6	1772.2	1425.2	1370.6	1345.2	1339.4	1339.4	1339.4
22.5°	10465.4	8862.8	5252.2	2359.0	1421.3	1300.4	1273.1	1255.5	1249.7	1247.7	1243.8
25°	10093.0	8309.2	4289.1	1666.9	1247.7	1191.2	1167.8	1144.4	1126.9	1117.1	1111.3
27.5°	9787.0	7815.9	3392.3	1337.4	1126.9	1078.1	1048.9	1013.8	970.9	951.4	943.6
30°	9543.3	7365.6	2614.4	1128.8	1013.8	965.0	920.2	859.8	797.4	764.2	762.3
32.5°	9352.2	6923.0	1984.7	998.2	912.4	852.0	787.6	711.6	639.5	602.4	600.5
35°	9258.6	6533.1	1516.8	902.7	822.7	746.7	666.8	582.9	512.7	477.7	473.8
37.5°	9321.0	6203.6	1183.4	822.7	746.7	659.0	565.4	477.7	415.3	384.1	382.1
40°	9549.1	5993.0	961.1	754.5	682.4	575.1	473.8	391.9	339.2	313.9	311.9
42.5°	10034.6	5915.1	820.8	698.0	620.0	497.1	393.8	323.6	274.9	257.3	253.4
45°	10845.6	6030.1	725.2	643.4	555.6	423.1	325.6	265.1	222.3	208.6	206.7
47.5°	11925.7	6332.3	657.0	590.7	497.1	356.8	271.0	214.5	181.3	167.7	165.7
50°	13317.7	6811.9	600.5	538.1	442.6	302.2	224.2	169.6	140.4	130.6	130.6
52.5°	14832.5	7383.1	549.8	489.3	388.0	251.5	181.3	130.6	111.1	99.4	99.4
55°	16084.1	7882.2	495.2	452.3	321.7	208.6	138.4	99.4	81.9	76.0	76.0
57.5°	17333.8	8414.4	432.8	388.0	257.3	169.6	105.3	74.1	60.4	56.5	56.5
60°	18953.9	9065.6	372.4	315.8	202.8	128.7	78.0	52.6	44.8	42.9	42.9
62.5°	20735.9	9447.7	317.8	253.4	157.9	95.5	56.5	35.1	33.1	33.1	31.2
65°	21825.7	8907.7	267.1	202.8	122.8	72.1	37.0	25.3	29.2	27.3	23.4
67.5°	20435.6	6973.7	218.4	157.9	95.5	54.6	23.4	17.5	31.2	25.3	19.5
70°	16920.5	4881.8	169.6	111.1	76.0	46.8	15.6	11.7	33.1	25.3	15.6
72.5°	12662.6	3267.5	134.5	74.1	56.5	40.9	13.6	5.8	29.2	21.4	13.6
75°	6919.1	1316.0	107.2	46.8	35.1	29.2	9.7	3.9	19.5	15.6	9.7
77.5°	1820.9	347.0	78.0	31.2	19.5	11.7	5.8	1.9	9.7	7.8	3.9
80°	464.0	134.5	50.7	21.4	13.6	5.8	0.0	0.0	1.9	0.0	0.0
82.5°	247.6	56.5	31.2	15.6	7.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	187.2	37.0	17.5	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	72.1	11.7	5.8	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)