

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: P323761

Luminaire Tested: **GAN-SA7B-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27436 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

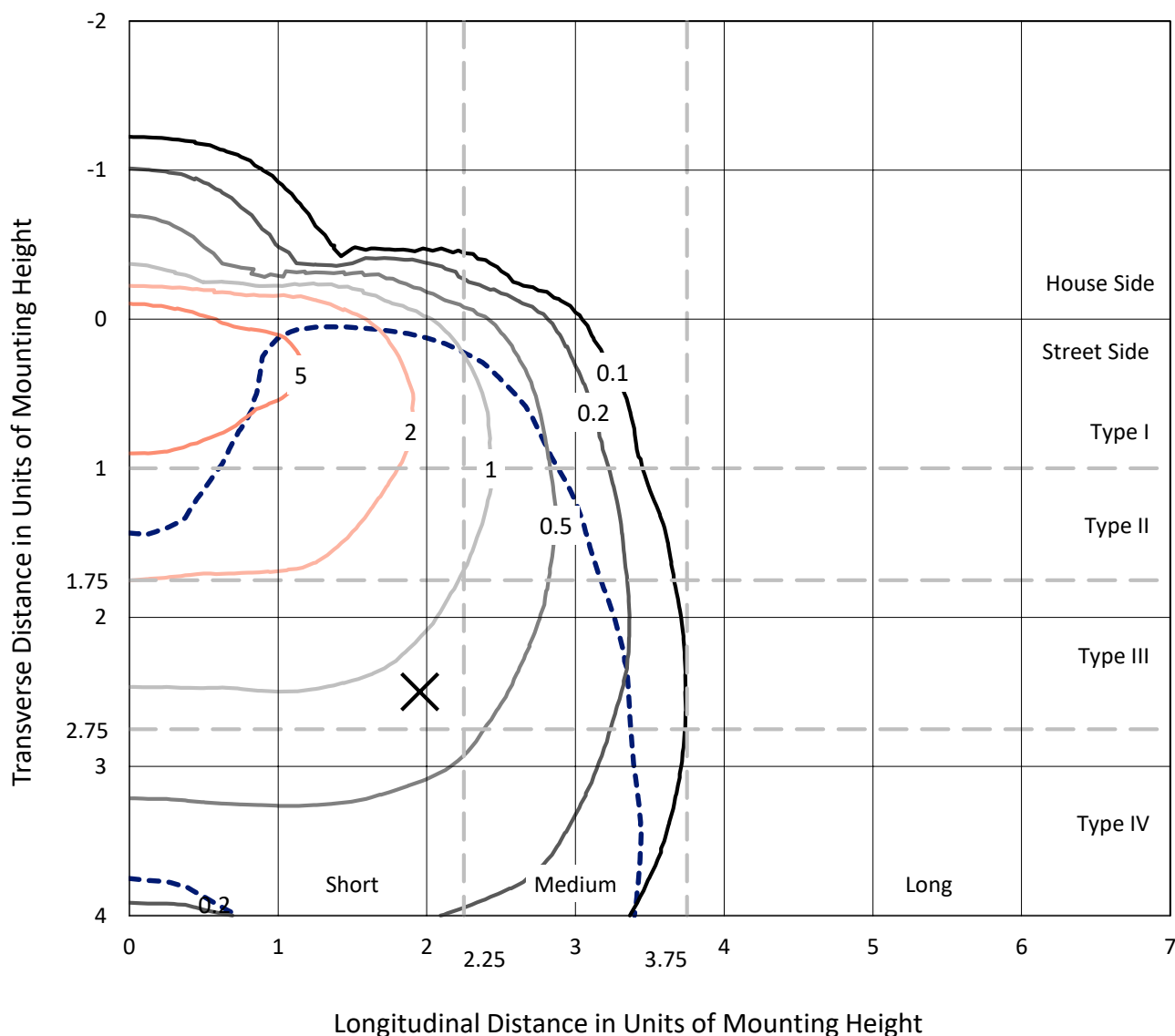
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

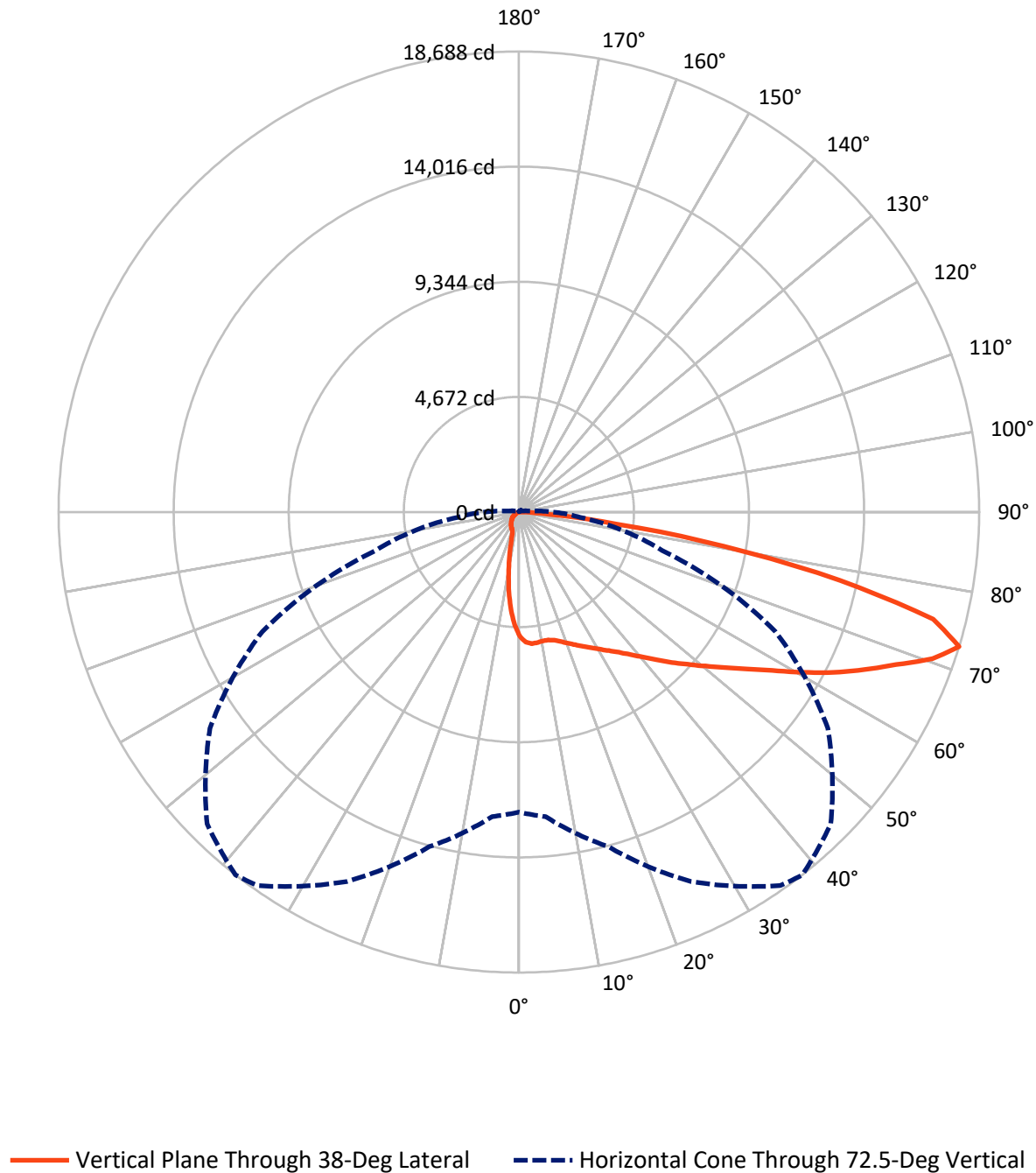
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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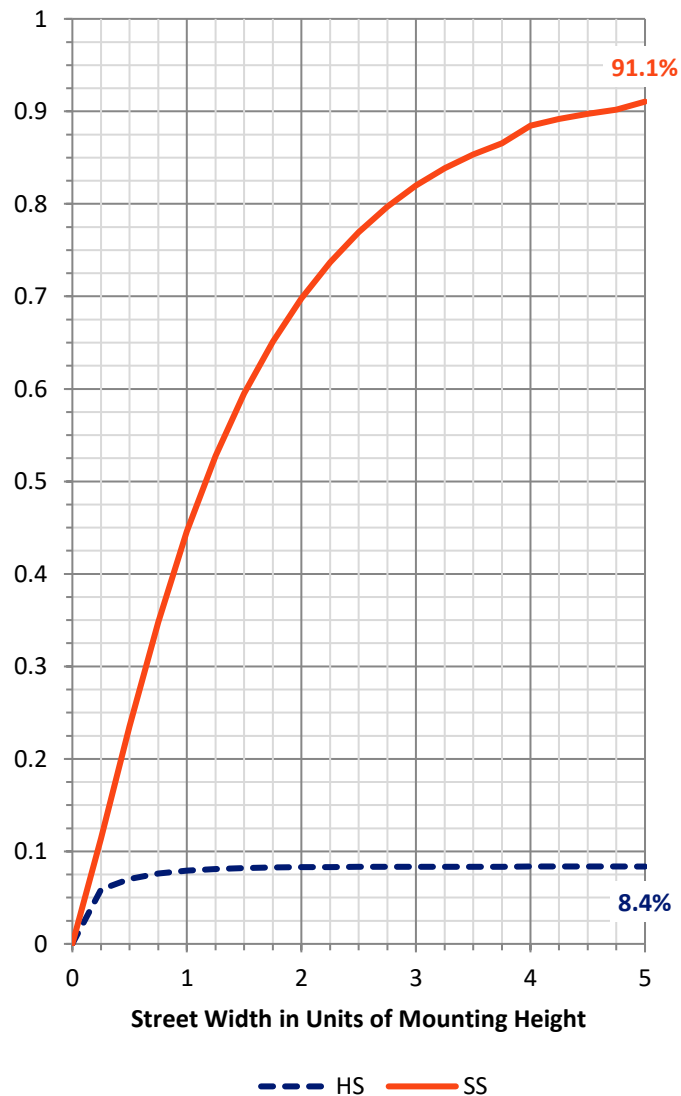
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2308.8	0.0	2308.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	25127.1	0.0	25127.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	27436.0	0.0	27436.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.0	1.6
10°-20°	1051.4	3.8
20°-30°	1672.2	6.1
30°-40°	2513.9	9.2
40°-50°	3835.2	14.0
50°-60°	5420.4	19.8
60°-70°	6799.0	24.8
70°-80°	5083.7	18.5
80°-90°	630.4	2.3
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°	27436.0	100.0
0°-180°	27436.0	100.0

Coefficient of Utilization



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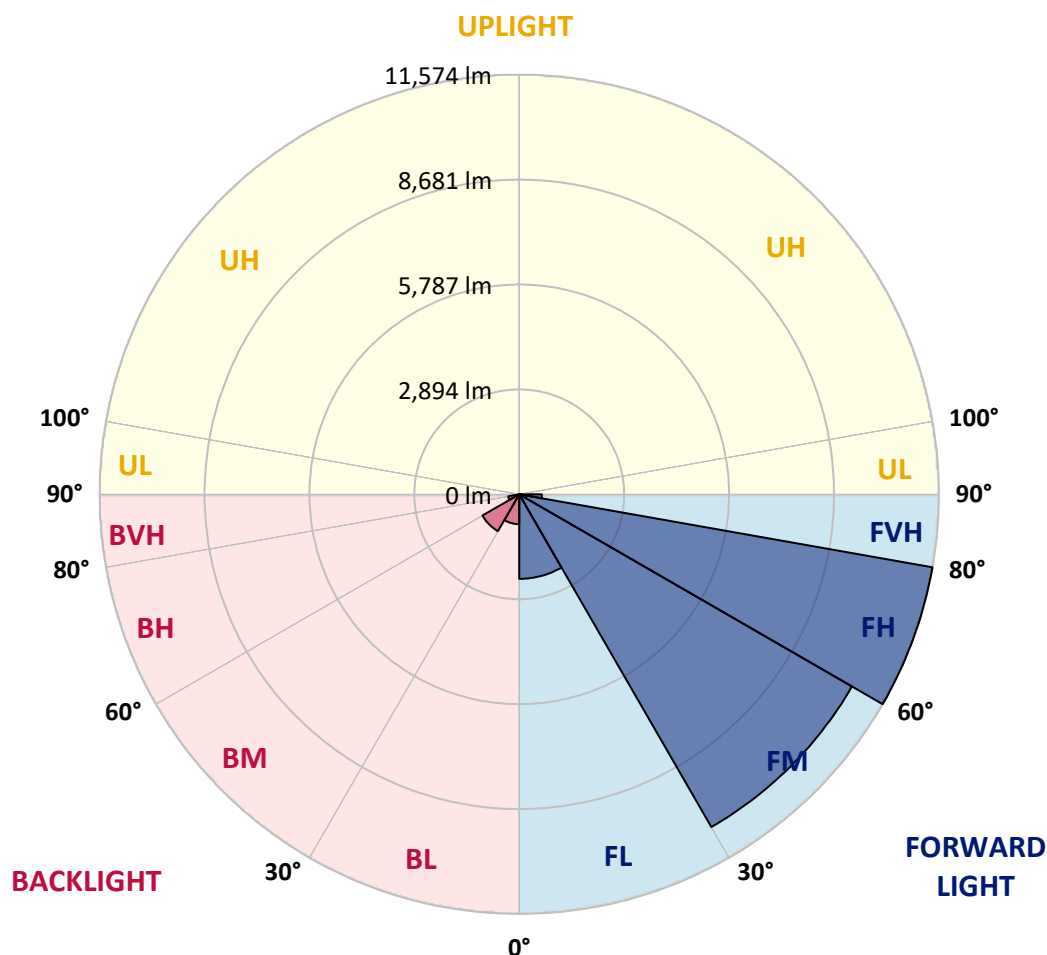
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2331.4	8.5			
FM	(30°-60°)	10597.0	38.6			
FH	(60°-80°)	11574.3	42.2			G4/12000
FVH	(80°-90°)	624.5	2.3			G4/750
BL	(0°-30°)	822.1	3.0	B2/1000		
BM	(30°-60°)	1172.5	4.3	B2/2500		
BH	(60°-80°)	308.4	1.1	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4
2.5°	5355.3	5356.5	5343.9	5323.4	5297.2	5283.5	5260.7	5224.3	5185.5	5116.0	5040.8
5°	5464.7	5464.7	5448.7	5421.4	5379.2	5366.7	5323.4	5265.3	5185.5	5072.7	4946.3
7.5°	5453.3	5455.6	5433.9	5405.4	5363.3	5351.9	5299.5	5234.5	5135.4	4998.7	4836.9
10°	5394.1	5399.8	5382.7	5369.0	5330.2	5317.7	5268.7	5203.8	5104.6	4958.8	4773.1
12.5°	5333.7	5339.4	5345.1	5357.6	5333.7	5329.1	5290.4	5235.7	5141.1	4989.6	4779.9
15°	5294.9	5306.3	5347.3	5396.3	5402.0	5397.5	5372.4	5321.1	5225.4	5068.2	4828.9
17.5°	5294.9	5313.2	5398.6	5492.0	5525.1	5528.5	5506.9	5435.1	5321.1	5152.5	4874.5
20°	5339.4	5364.4	5497.7	5629.9	5684.6	5684.6	5642.5	5542.2	5408.9	5228.8	4905.2
22.5°	5453.3	5486.3	5653.8	5806.5	5864.6	5852.1	5795.1	5649.3	5500.0	5315.4	4944.0
25°	5677.8	5702.8	5877.2	6031.0	6066.3	6037.8	5966.0	5779.2	5616.2	5432.8	5014.6
27.5°	5967.2	5970.6	6150.6	6280.5	6258.9	6239.5	6149.5	5942.1	5783.7	5600.3	5136.5
30°	6285.1	6285.1	6443.5	6542.6	6476.5	6460.6	6370.5	6139.2	5998.0	5828.2	5309.7
32.5°	6592.7	6606.4	6735.2	6797.8	6723.8	6707.8	6620.1	6388.8	6282.8	6175.7	5579.8
35°	6890.1	6900.4	7022.3	7056.5	6985.8	6990.4	6927.7	6731.7	6691.9	6678.2	5986.6
37.5°	7178.4	7180.7	7304.9	7326.5	7291.2	7329.9	7335.6	7162.4	7236.5	7347.0	6559.7
40°	7441.6	7443.9	7566.9	7622.8	7683.2	7733.3	7777.7	7685.4	7930.4	8186.8	7242.2
42.5°	7652.4	7676.3	7832.4	7938.4	8097.9	8193.6	8314.4	8309.9	8756.5	9141.6	8067.2
45°	7838.1	7879.1	8096.8	8282.5	8556.0	8708.7	8897.8	9045.9	9686.3	10204.7	8902.4
47.5°	8083.1	8121.8	8370.2	8674.5	9039.1	9239.6	9553.0	9873.1	10708.4	11248.4	9718.2
50°	8428.4	8411.3	8656.2	9092.6	9560.9	9824.2	10270.8	10750.5	11722.4	12157.7	10197.9
52.5°	8796.4	8789.6	8970.7	9547.3	10176.2	10483.9	11074.1	11657.5	12692.1	12784.4	10417.8
55°	9252.2	9203.2	9355.8	10065.7	10906.6	11237.0	11932.1	12555.4	13464.6	13137.6	10528.3
57.5°	9729.6	9648.7	9794.5	10643.4	11730.4	12121.2	12882.4	13430.4	13978.5	13379.2	10527.2
60°	10223.0	10127.2	10300.4	11365.8	12753.6	13206.0	13912.4	14021.8	14458.2	13501.1	10449.7
62.5°	10635.4	10578.5	10836.0	12138.3	13896.5	14340.8	14690.7	14559.6	14862.7	13595.7	10268.5
65°	11071.8	11075.2	11491.1	13039.6	15111.1	15410.8	15440.4	15256.9	15201.1	13576.3	9655.5
67.5°	11662.1	11716.7	12410.7	14263.4	16292.7	16524.0	16521.7	16012.4	15448.4	12806.0	8296.2
70°	12286.5	12415.2	13470.3	15663.7	17582.5	17817.2	17696.5	16493.2	14545.9	10355.1	5871.5
72.5°	12181.6	12405.0	14059.4	16546.8	18508.9	18687.8	17902.7	15311.6	11496.8	6018.5	2499.9
75°	9398.0	9656.7	12891.5	15671.7	17536.9	17376.3	15382.3	11915.0	6282.8	1679.5	562.9
77.5°	4964.5	5102.4	8516.1	11938.9	13674.3	13338.2	10836.0	6609.8	1915.4	415.9	253.0
80°	2600.2	2632.1	3711.1	6773.9	8439.7	8442.0	6421.8	2903.3	789.6	213.1	169.8
82.5°	1392.4	1419.7	1961.0	3130.0	4422.1	4008.5	2458.9	1597.5	459.2	120.8	162.9
85°	335.0	340.7	1112.1	1430.0	1738.8	1242.0	730.4	1341.1	124.2	70.6	132.2
87.5°	128.8	131.0	412.5	618.7	443.2	287.1	341.8	500.2	16.0	27.3	20.5
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°	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4	5045.4
2.5°	4995.3	4965.6	4892.7	4800.4	4718.4	4659.1	4570.2	4512.1	4473.4	4472.3	4457.4
5°	4868.8	4808.4	4651.1	4464.3	4294.5	4141.8	3961.8	3819.4	3713.4	3696.3	3659.8
7.5°	4733.2	4634.1	4392.5	4100.8	3815.9	3526.5	3190.4	2981.9	2803.0	2717.5	2708.4
10°	4650.0	4511.0	4168.0	3746.4	3299.8	2829.2	2389.4	2085.2	1865.2	1802.6	1755.9
12.5°	4632.9	4449.5	3994.8	3413.7	2775.6	2153.5	1667.0	1343.4	1167.9	1112.1	1097.3
15°	4650.0	4421.0	3849.0	3084.4	2244.7	1528.0	1118.9	930.9	864.8	848.9	847.7
17.5°	4660.3	4386.8	3683.8	2718.7	1729.7	1091.6	856.9	802.2	791.9	790.8	793.0
20°	4659.1	4334.4	3486.7	2310.8	1286.4	858.0	774.8	763.4	761.1	762.3	761.1
22.5°	4651.1	4272.9	3270.2	1890.3	971.9	766.8	739.5	732.7	731.5	731.5	731.5
25°	4666.0	4223.9	3032.0	1488.1	801.0	724.7	707.6	701.9	700.7	700.7	698.5
27.5°	4719.5	4196.5	2771.1	1145.1	723.5	687.1	673.4	672.3	668.8	667.7	670.0
30°	4806.1	4196.5	2485.1	891.0	676.8	648.3	638.1	635.8	634.7	633.5	634.7
32.5°	4958.8	4228.4	2172.9	740.6	632.4	605.0	598.2	601.6	598.2	598.2	598.2
35°	5234.5	4324.1	1845.9	646.1	585.7	562.9	556.0	560.6	558.3	558.3	557.2
37.5°	5636.8	4501.9	1516.6	589.1	544.6	520.7	511.6	518.4	516.2	516.2	515.0
40°	6126.7	4760.5	1203.2	545.8	504.8	479.7	471.7	475.1	469.4	469.4	471.7
42.5°	6731.7	5088.7	929.8	503.6	464.9	441.0	436.4	433.0	422.7	417.0	418.2
45°	7404.0	5430.5	724.7	462.6	427.3	407.9	401.1	392.0	374.9	363.5	364.6
47.5°	8004.5	5693.7	589.1	422.7	393.1	378.3	368.0	350.9	325.9	312.2	313.3
50°	8320.1	5733.6	501.3	382.8	361.2	346.4	331.6	305.4	275.7	260.9	259.8
52.5°	8401.0	5546.7	436.4	346.4	329.3	312.2	292.8	257.5	224.5	208.5	206.2
55°	8430.6	5261.9	378.3	312.2	295.1	275.7	250.7	210.8	180.0	164.1	162.9
57.5°	8332.6	4836.9	332.7	281.4	260.9	237.0	206.2	168.6	139.0	126.5	126.5
60°	8115.0	4261.5	297.4	248.4	225.6	198.3	166.4	131.0	103.7	93.4	93.4
62.5°	7680.9	3516.3	264.3	214.2	192.6	164.1	134.5	99.1	72.9	67.2	68.4
65°	6861.6	2667.4	231.3	183.4	164.1	135.6	104.8	70.6	49.0	49.0	51.3
67.5°	5595.7	1852.7	197.1	156.1	141.3	110.5	79.8	49.0	34.2	38.7	43.3
70°	3704.3	1039.2	168.6	128.8	120.8	87.7	59.3	33.0	27.3	36.5	44.4
72.5°	1398.1	404.5	141.3	103.7	104.8	67.2	42.2	25.1	25.1	39.9	52.4
75°	389.7	198.3	101.4	76.3	82.0	49.0	30.8	21.6	23.9	45.6	61.5
77.5°	229.0	145.8	66.1	44.4	55.8	34.2	20.5	17.1	20.5	38.7	59.3
80°	184.6	77.5	38.7	22.8	30.8	19.4	13.7	10.3	5.7	14.8	30.8
82.5°	184.6	46.7	18.2	16.0	16.0	10.3	6.8	4.6	1.1	0.0	8.0
85°	124.2	19.4	11.4	10.3	8.0	3.4	2.3	1.1	0.0	0.0	0.0
87.5°	20.5	8.0	4.6	2.3	1.1	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)