

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: P319302

Luminaire Tested: **GAN-SA8D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50947 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

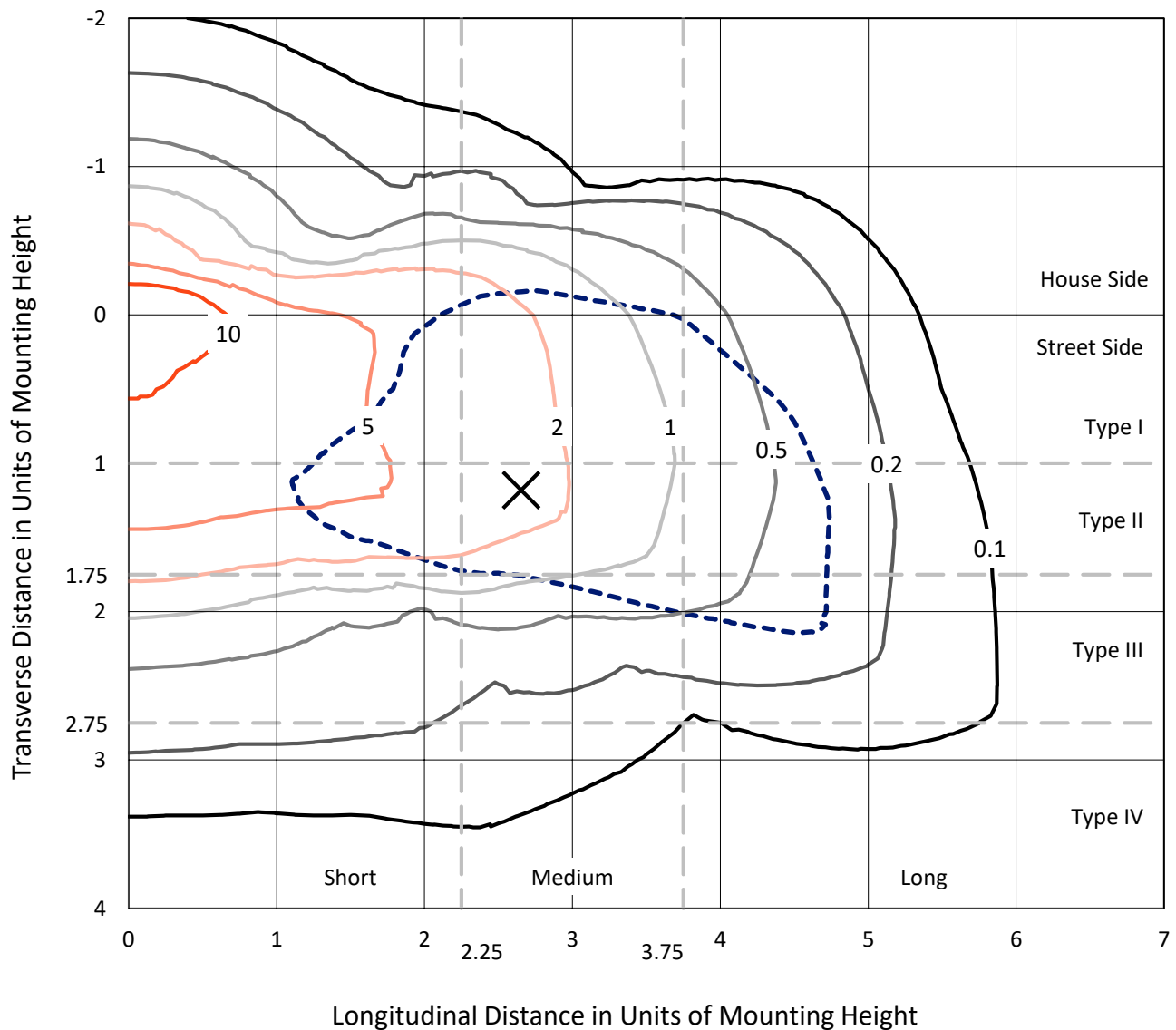
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

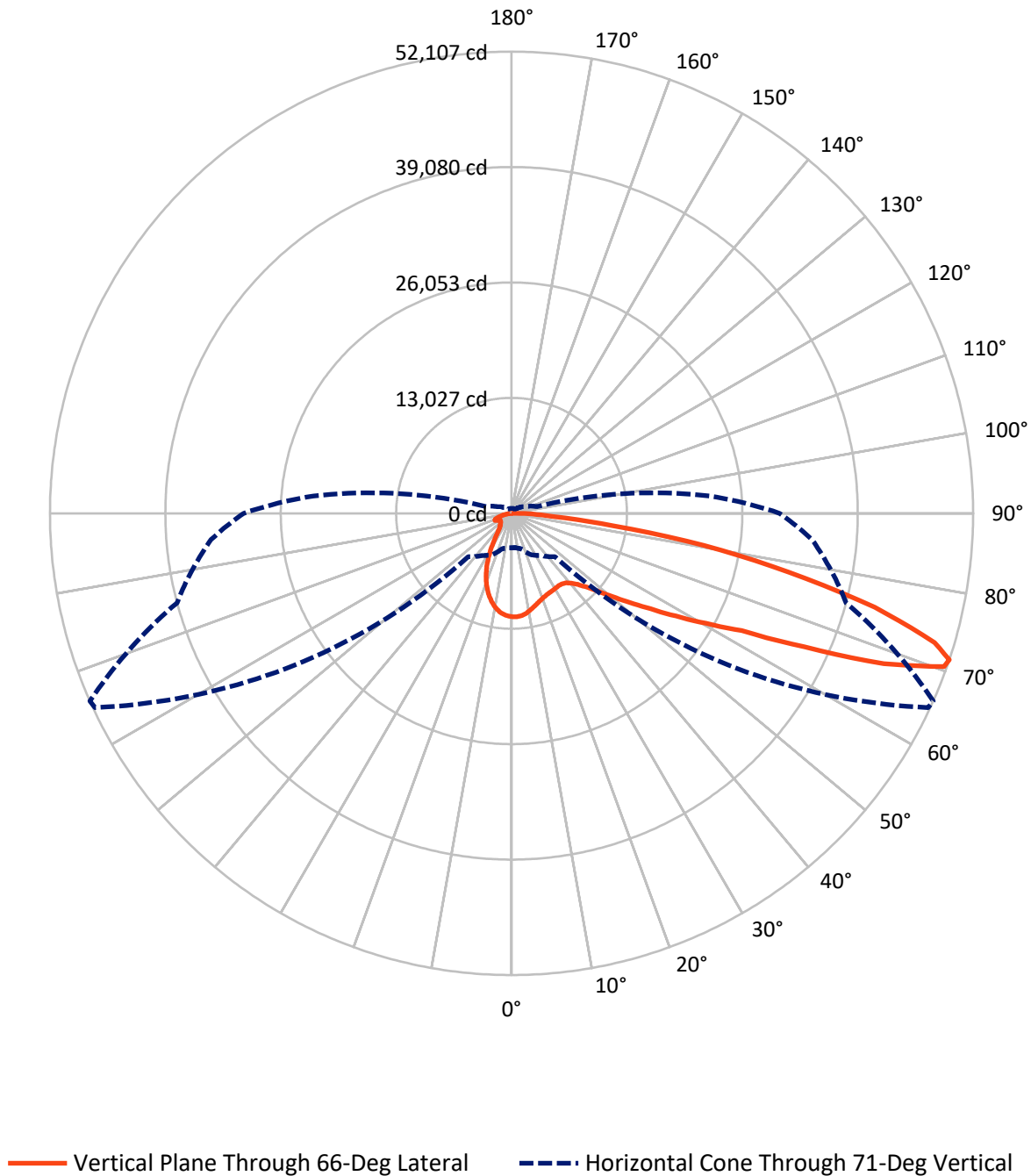
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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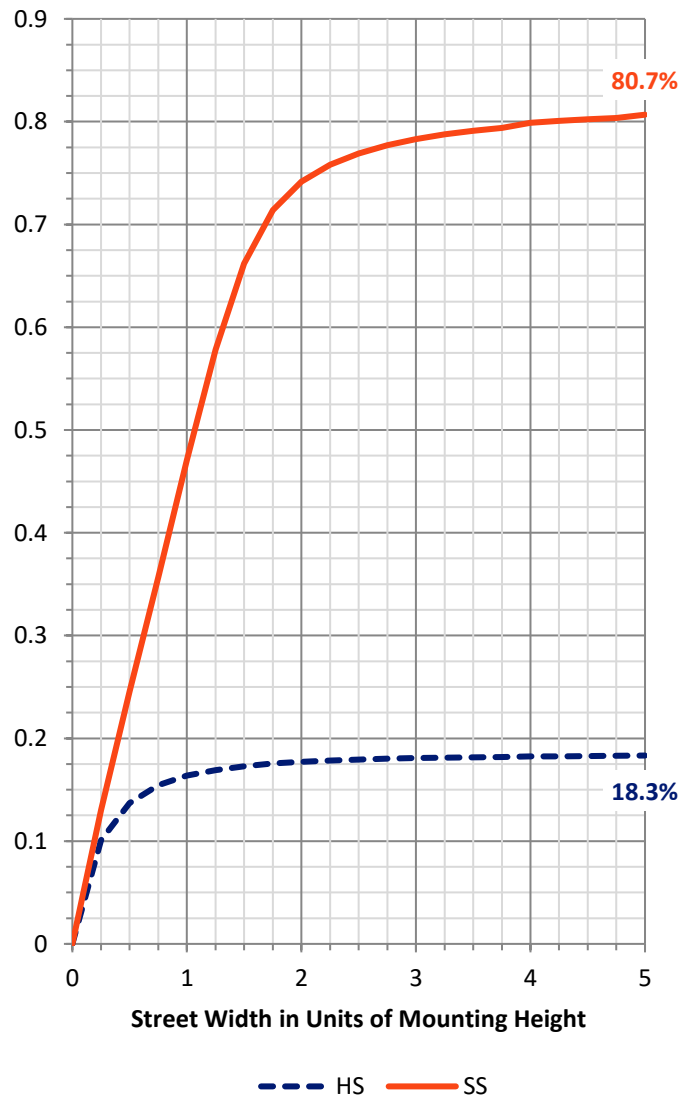
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9441.9	0.0	9441.9
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	41505.1	0.0	41505.1
	% Fixture	81.5	0.0	81.5
Total	Lumens	50947.0	0.0	50947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1027.3	2.0
10°-20°	2464.0	4.8
20°-30°	3309.7	6.5
30°-40°	4353.9	8.5
40°-50°	6333.8	12.4
50°-60°	9894.0	19.4
60°-70°	12393.9	24.3
70°-80°	9453.7	18.6
80°-90°	1716.7	3.4
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°	50947.0	100.0
0°-180°	50947.0	100.0

Coefficient of Utilization



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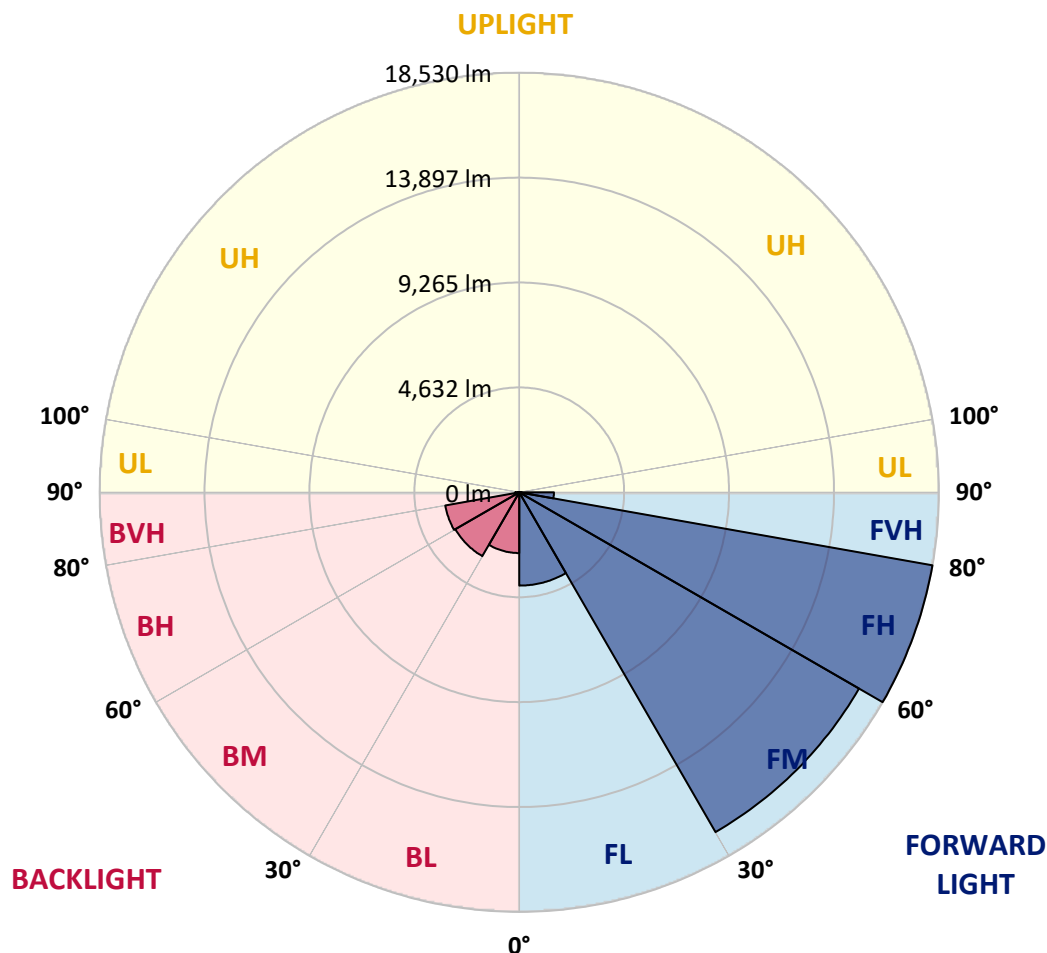
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4119.8	8.1			
FM	(30°-60°)	17324.5	34.0			
FH	(60°-80°)	18530.0	36.4			G5
FVH	(80°-90°)	1530.9	3.0			G5
BL	(0°-30°)	2681.2	5.3	B4/5000		
BM	(30°-60°)	3257.1	6.4	B3/5000		
BH	(60°-80°)	3317.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	185.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0
2.5°	11454.6	11437.0	11489.8	11544.3	11565.4	11600.6	11653.4	11683.3	11681.5	11686.8	11669.2
5°	10694.7	10671.9	10777.4	10863.6	11028.9	11215.4	11442.3	11604.1	11607.6	11699.1	11723.7
7.5°	9975.3	9959.5	10080.8	10219.8	10411.5	10696.5	11064.1	11412.4	11433.5	11681.5	11767.7
10°	9398.3	9394.8	9512.7	9664.0	9887.3	10205.7	10627.9	11138.0	11169.7	11597.1	11774.8
12.5°	8948.0	8955.1	9057.1	9229.5	9465.2	9797.6	10255.0	10830.2	10881.2	11463.4	11734.3
15°	8615.6	8643.7	8726.4	8900.5	9132.7	9470.5	9940.1	10545.2	10622.6	11313.9	11711.4
17.5°	8425.6	8457.3	8515.3	8659.6	8877.7	9203.1	9648.1	10311.3	10381.6	11199.6	11713.2
20°	8369.3	8395.7	8429.1	8517.1	8701.8	8997.3	9417.7	10100.2	10175.8	11108.1	11730.8
22.5°	8480.1	8499.5	8503.0	8496.0	8608.6	8849.5	9250.6	9945.4	10026.3	11048.3	11743.1
25°	8717.6	8744.0	8724.6	8659.6	8622.6	8770.4	9164.4	9843.4	9924.3	11004.3	11718.5
27.5°	9074.7	9078.2	9062.4	8977.9	8803.8	8779.2	9138.0	9783.6	9861.0	10953.3	11667.5
30°	9560.2	9583.0	9554.9	9440.6	9155.6	8919.9	9169.7	9725.5	9795.9	10888.2	11584.8
32.5°	10128.3	10184.6	10182.9	10063.2	9655.2	9234.8	9299.8	9690.3	9744.9	10819.6	11484.5
35°	10717.6	10795.0	10939.2	10888.2	10383.4	9732.6	9549.6	9746.6	9783.6	10810.8	11414.2
37.5°	11329.7	11407.1	11704.4	11841.6	11250.6	10444.9	9943.6	9945.4	9963.0	10918.1	11408.9
40°	11970.0	12052.7	12499.5	12856.5	12374.6	11347.3	10578.6	10360.5	10341.2	11182.0	11512.7
42.5°	12867.1	12941.0	13477.5	13933.0	13621.7	12503.0	11456.4	11000.8	10960.3	11699.1	11845.1
45°	14001.6	14065.0	14634.9	15122.1	14962.1	13822.2	12559.3	11882.1	11875.0	12561.0	12518.8
47.5°	15350.8	15400.1	15911.9	16383.3	16441.4	15340.2	13945.4	13241.8	13127.4	13743.1	13561.9
50°	16756.2	16810.8	17159.1	17665.6	18096.6	17371.9	15729.0	14907.5	14754.5	15303.3	15039.5
52.5°	17686.8	17758.9	18061.4	18703.5	19957.6	19598.8	17838.0	16926.9	16694.7	17194.2	16991.9
55°	17271.6	17433.5	17896.1	18925.1	21445.7	23000.7	20439.6	19282.2	19020.1	19435.2	19315.6
57.5°	15384.2	15605.9	16237.3	17825.7	21655.1	25998.0	24372.7	22056.1	21871.4	21751.8	21806.3
60°	11934.8	12147.7	12930.4	15000.8	20196.8	28186.2	30291.8	25475.6	25208.2	24077.2	24126.5
62.5°	8446.7	8339.4	8875.9	10390.4	16411.5	28443.0	37027.0	30049.0	29169.5	26532.8	26316.4
65°	6441.5	6416.8	6657.8	7139.8	9940.1	25370.1	41039.3	37735.8	36362.1	29421.1	28910.9
67.5°	5292.8	5248.9	5486.3	6188.2	6401.0	16367.5	41127.2	46654.0	45304.8	33016.4	31911.8
70°	4351.8	4302.5	4524.2	5430.0	5915.5	8300.7	34613.6	51876.5	51804.3	37568.7	34177.4
71°	3901.5	3866.3	4131.9	5138.0	5811.7	6918.2	29885.4	51890.5	52106.9	39109.6	34043.7
72.5°	3176.8	3189.1	3470.5	4573.4	5734.3	6109.0	21964.6	49471.9	49929.2	40578.4	32828.2
75°	2110.8	2121.4	2490.7	3518.0	5560.2	5977.1	12072.0	41512.4	42353.2	39698.9	29955.8
77.5°	1417.8	1414.2	1665.8	2413.3	4844.3	5977.1	7078.2	31048.1	31971.6	31588.1	23093.9
80°	976.2	969.2	1146.9	1665.8	3667.5	6049.2	5472.3	21758.8	22038.5	17058.8	9386.0
82.5°	598.1	603.3	749.3	1176.8	2496.0	5444.1	5166.2	11864.5	11560.2	4784.5	2344.7
85°	343.0	341.2	478.4	796.8	1602.4	4594.5	5037.8	5106.4	4684.2	1440.6	847.8
87.5°	123.1	131.9	256.8	441.5	918.2	3199.6	4274.4	2656.1	2394.0	650.8	383.5
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°	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0	11671.0
2.5°	11656.9	11667.5	11655.1	11584.8	11525.0	11428.2	11373.7	11298.1	11275.2	11264.6	11292.8
5°	11700.9	11704.4	11600.6	11415.9	11208.4	10963.9	10788.0	10571.6	10469.6	10425.6	10453.7
7.5°	11741.3	11725.5	11498.6	11145.0	10761.6	10335.9	9957.7	9611.2	9408.9	9326.2	9333.3
10°	11746.6	11679.8	11315.7	10768.6	10174.1	9549.6	8969.1	8434.4	8096.7	7876.8	7943.6
12.5°	11692.1	11579.5	11046.5	10281.4	9456.4	8605.0	7820.5	7018.4	6536.4	6313.1	6320.1
15°	11649.9	11445.8	10715.8	9707.9	8599.8	7472.2	6401.0	5458.2	4944.6	4715.9	4608.6
17.5°	11614.7	11301.6	10332.4	9062.4	7588.3	6158.3	4870.7	4029.9	3748.4	3681.6	3653.4
20°	11565.4	11148.5	9904.9	8314.8	6436.2	4687.7	3556.7	3141.6	3143.3	3220.7	3231.3
22.5°	11496.8	10974.4	9449.4	7475.8	5199.6	3414.2	2788.0	2668.4	2789.8	2937.5	2963.9
25°	11394.8	10768.6	8942.8	6548.8	3964.8	2624.4	2381.7	2376.4	2524.2	2679.0	2701.8
27.5°	11250.6	10499.5	8379.9	5553.2	2921.7	2230.4	2133.7	2170.6	2279.7	2392.2	2401.0
30°	11057.1	10186.4	7759.0	4503.0	2290.2	1985.9	1975.4	2008.8	2075.6	2154.8	2161.8
32.5°	10844.2	9868.0	7095.8	3486.3	1961.3	1854.0	1864.5	1880.4	1912.0	1943.7	1950.7
35°	10650.8	9542.6	6416.8	2649.1	1804.7	1767.8	1760.8	1757.2	1760.8	1750.2	1752.0
37.5°	10525.9	9273.5	5709.7	2109.0	1715.0	1692.2	1671.1	1644.7	1614.8	1597.2	1600.7
40°	10480.1	9072.9	4993.8	1822.3	1641.1	1625.3	1584.9	1528.6	1493.4	1482.8	1482.8
42.5°	10603.3	8969.1	4302.5	1678.1	1579.6	1553.2	1486.4	1421.3	1394.9	1393.1	1391.4
45°	10979.7	9011.4	3644.6	1598.9	1523.3	1472.3	1384.3	1329.8	1312.2	1315.7	1314.0
47.5°	11655.1	9277.0	3081.8	1546.2	1467.0	1400.2	1301.7	1257.7	1236.6	1236.6	1238.3
50°	12803.8	9897.9	2633.2	1502.2	1419.5	1333.3	1241.9	1187.3	1159.2	1157.4	1157.4
52.5°	14476.6	11009.6	2353.5	1465.2	1366.7	1273.5	1182.0	1113.4	1080.0	1073.0	1069.5
55°	16573.3	12603.2	2276.1	1440.6	1296.4	1208.4	1109.9	1041.3	1004.4	988.6	986.8
57.5°	18918.1	14541.7	2429.2	1410.7	1224.3	1131.0	1030.8	965.7	927.0	907.6	905.9
60°	21290.9	16657.7	3053.6	1368.5	1164.5	1046.6	949.9	890.1	851.4	830.2	826.7
62.5°	23667.4	18888.2	4328.9	1365.0	1122.2	965.7	867.2	816.2	779.2	756.4	751.1
65°	26348.1	21329.6	5778.3	1458.2	1108.2	891.8	782.8	742.3	710.6	689.5	687.8
67.5°	29426.3	24086.0	5639.4	1649.9	1155.7	825.0	703.6	671.9	649.1	631.5	629.7
70°	30870.5	23655.0	3505.7	1785.4	1222.5	759.9	628.0	605.1	587.5	575.2	569.9
71°	30265.4	22460.7	2939.3	1769.6	1215.5	731.7	598.1	580.5	562.9	552.3	547.0
72.5°	28615.4	20483.6	2452.0	1646.4	1136.3	680.7	559.4	541.8	525.9	513.6	510.1
75°	25677.9	18293.6	1963.0	1315.7	905.9	575.2	490.8	471.4	459.1	452.1	445.0
77.5°	18875.8	13055.3	1518.0	1039.6	666.7	469.7	418.6	404.6	392.3	381.7	376.4
80°	7231.3	5057.1	1022.0	775.7	489.0	371.1	337.7	330.7	318.4	311.3	311.3
82.5°	1947.2	1511.0	545.3	469.7	327.2	270.9	258.6	255.1	244.5	230.4	232.2
85°	788.0	666.7	306.1	258.6	200.5	160.1	174.1	175.9	163.6	146.0	147.8
87.5°	346.5	283.2	170.6	114.3	88.0	61.6	79.2	79.2	72.1	59.8	54.5
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)