

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: P319912

Luminaire Tested: **GAN-SA8A-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29679 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 257
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

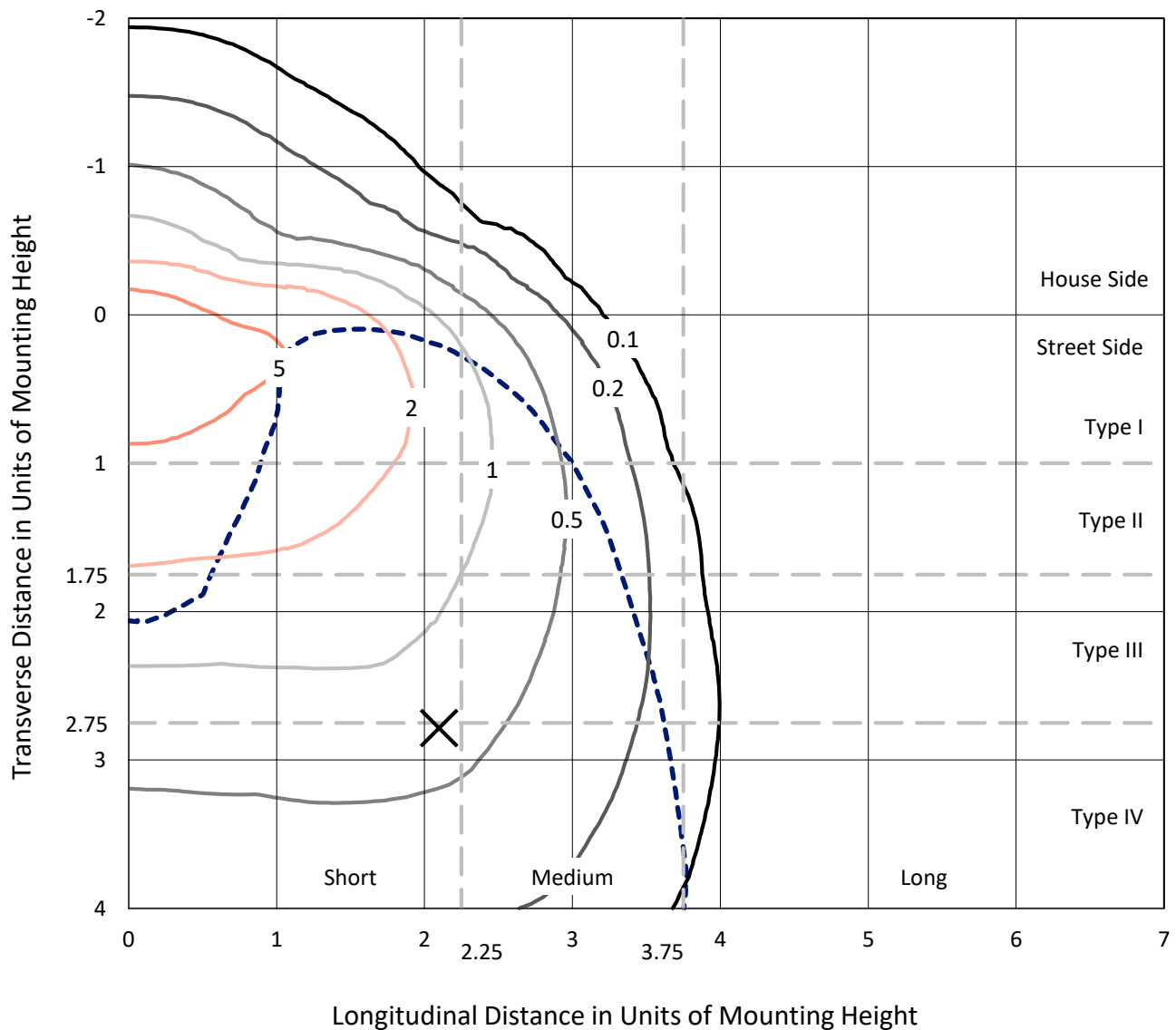


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Iso-Footcandle Lines of Horizontal Illumination

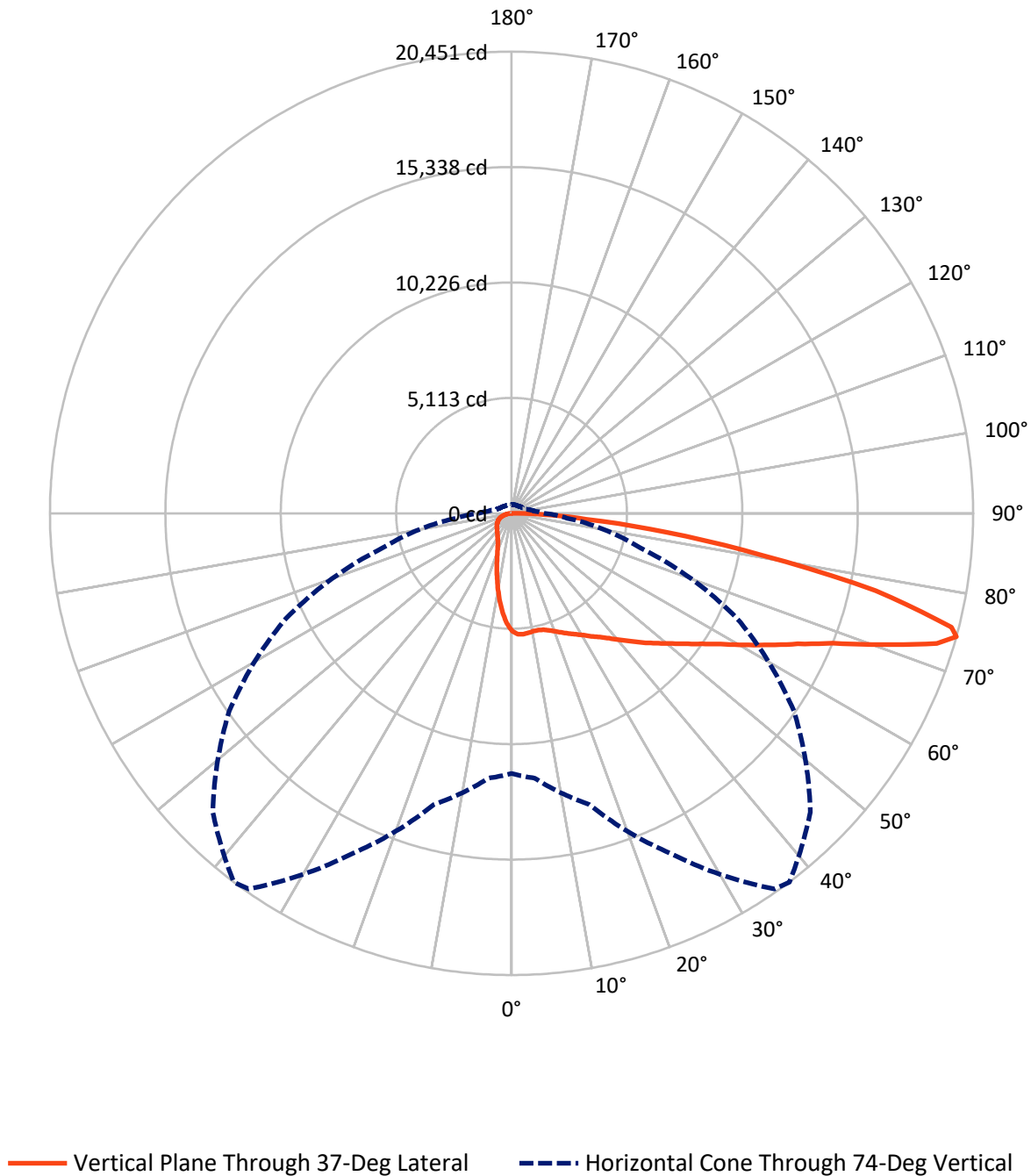
× Max cd
- - - 1/2 Max cd



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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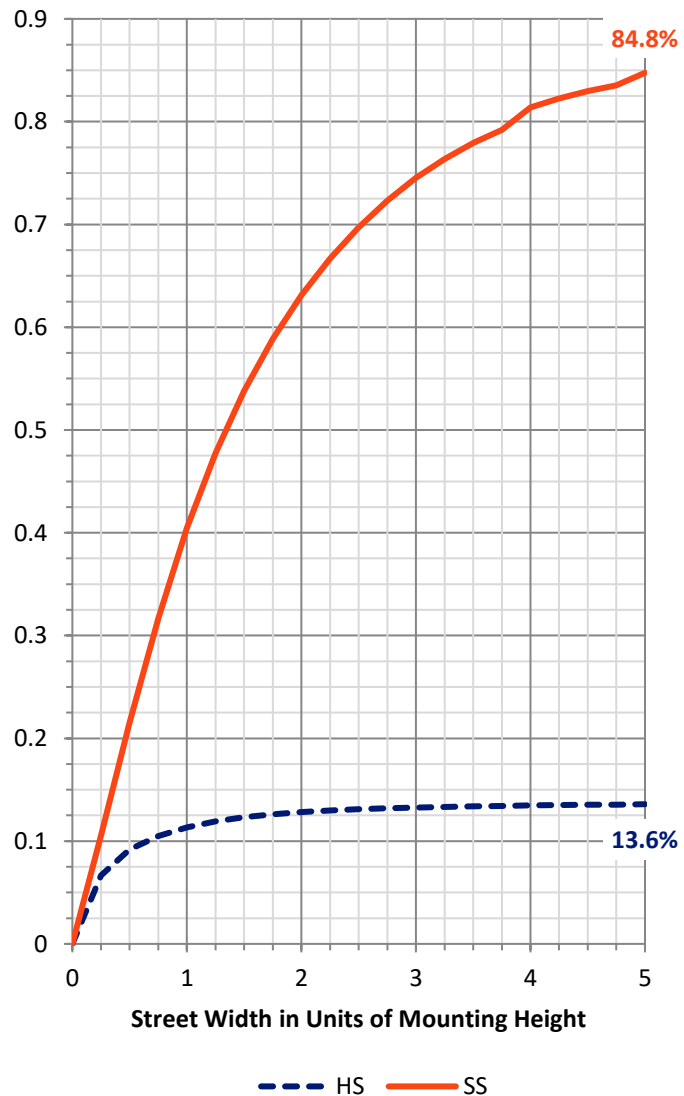
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4083.6	0.0	4083.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	25595.4	0.0	25595.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	29679.0	0.0	29679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.5	1.6
10°-20°	1180.4	4.0
20°-30°	1818.7	6.1
30°-40°	2644.7	8.9
40°-50°	3892.6	13.1
50°-60°	5466.4	18.4
60°-70°	6918.8	23.3
70°-80°	6092.3	20.5
80°-90°	1204.6	4.1
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°	29679.0	100.0
0°-180°	29679.0	100.0

Coefficient of Utilization



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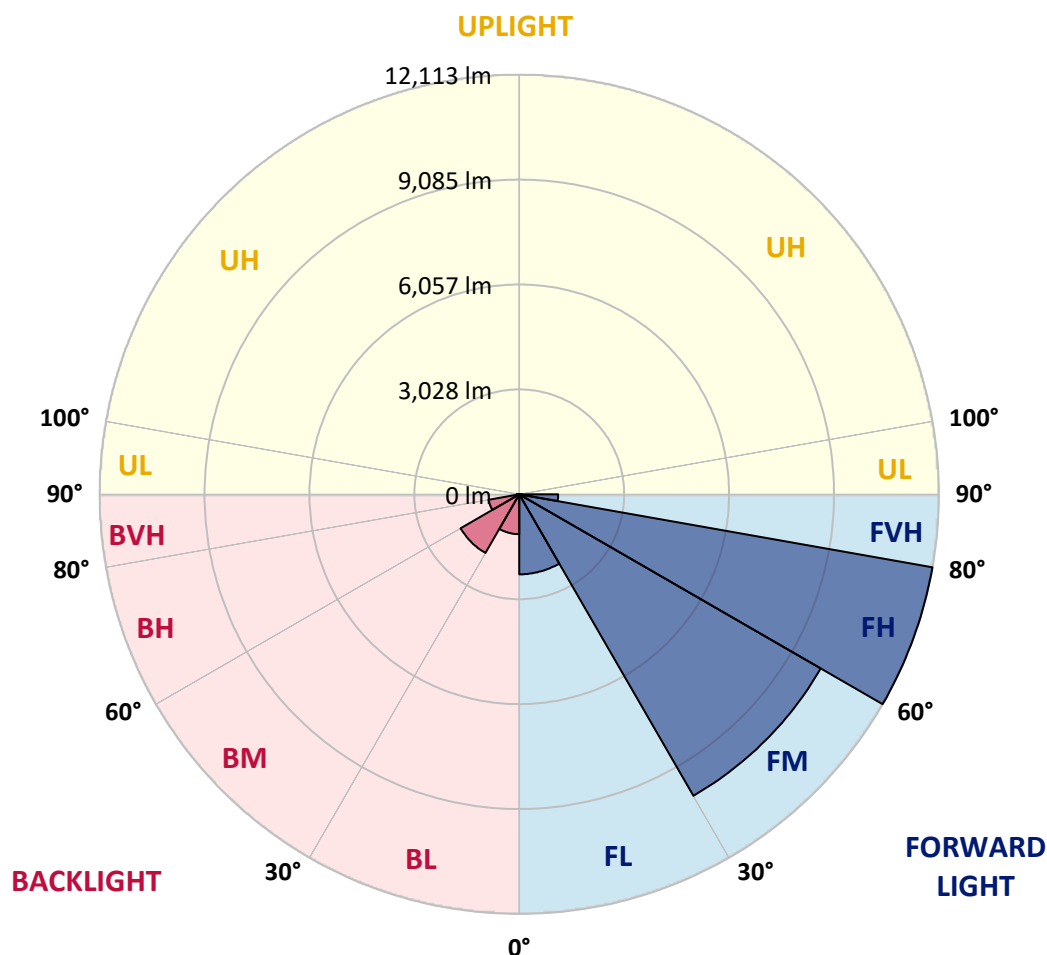
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2309.4	7.8			
FM	(30°-60°)	10049.5	33.9			
FH	(60°-80°)	12113.4	40.8			G5
FVH	(80°-90°)	1123.0	3.8			G5
BL	(0°-30°)	1150.3	3.9	B3/2500		
BM	(30°-60°)	1954.2	6.6	B2/2500		
BH	(60°-80°)	897.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	81.6	0.3			G1/100
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°	35°	37°	45°	55°	65°	75°	85°
0°	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3
2.5°	5408.1	5409.1	5408.1	5399.7	5379.9	5363.1	5349.6	5329.7	5285.8	5252.3	5202.1
5°	5459.3	5453.1	5448.9	5433.2	5401.8	5383.0	5356.9	5319.2	5247.1	5180.2	5098.6
7.5°	5435.3	5428.0	5418.6	5399.7	5364.2	5348.5	5311.9	5262.8	5176.0	5088.2	4971.1
10°	5361.1	5359.0	5354.8	5350.6	5320.3	5307.7	5274.3	5222.0	5136.3	5029.6	4892.7
12.5°	5278.5	5283.7	5300.4	5322.4	5308.8	5302.5	5281.6	5246.1	5158.2	5043.2	4878.1
15°	5226.2	5240.8	5285.8	5343.3	5354.8	5352.7	5347.5	5324.5	5231.4	5103.9	4911.5
17.5°	5208.4	5232.5	5318.2	5413.3	5446.8	5454.1	5456.2	5416.5	5313.0	5178.1	4946.0
20°	5240.8	5271.1	5396.6	5527.3	5580.6	5584.8	5575.4	5506.4	5390.3	5241.9	4964.8
22.5°	5339.1	5366.3	5523.1	5670.5	5731.1	5737.4	5709.2	5604.6	5471.9	5317.1	4991.0
25°	5528.3	5561.8	5718.6	5866.0	5897.4	5898.4	5857.6	5728.0	5578.5	5422.7	5047.4
27.5°	5775.0	5808.5	5949.6	6093.9	6077.2	6067.8	6012.4	5882.7	5717.5	5568.0	5147.8
30°	6050.0	6086.6	6220.4	6322.9	6283.1	6264.3	6219.4	6052.1	5911.0	5766.7	5301.5
32.5°	6334.4	6367.8	6484.9	6555.0	6504.8	6496.4	6428.5	6275.8	6162.9	6069.9	5550.3
35°	6626.0	6650.1	6765.1	6804.8	6737.9	6735.8	6717.0	6576.9	6505.8	6549.7	5912.0
37.5°	6924.0	6930.3	7028.5	7030.6	7010.8	7019.1	7039.0	6951.2	6971.0	7108.0	6382.5
40°	7189.5	7206.3	7277.4	7299.3	7333.8	7363.1	7462.4	7404.9	7558.6	7801.1	6967.9
42.5°	7386.1	7418.5	7532.4	7588.9	7700.8	7746.8	7886.9	7940.2	8249.6	8613.4	7664.2
45°	7552.3	7602.5	7785.4	7901.5	8090.7	8171.2	8371.9	8550.7	9030.6	9494.7	8397.0
47.5°	7732.1	7795.9	8024.8	8246.5	8503.7	8594.6	8959.5	9227.1	9863.8	10381.3	9088.1
50°	7996.6	8045.8	8269.5	8617.6	8938.6	9055.7	9560.6	9944.3	10710.6	11226.0	9687.1
52.5°	8365.7	8346.8	8536.1	9024.3	9455.0	9599.3	10202.5	10707.5	11568.9	11990.2	10193.1
55°	8736.8	8705.4	8838.2	9449.8	10057.2	10208.8	10909.2	11473.8	12385.4	12678.1	10581.0
57.5°	9149.8	9090.2	9202.0	9929.7	10743.0	10923.9	11700.6	12288.2	13188.3	13234.3	10827.7
60°	9575.2	9494.7	9620.2	10524.5	11613.9	11827.1	12626.9	13082.7	13945.2	13679.7	10907.1
62.5°	9947.4	9891.0	10084.4	11188.4	12595.5	12829.7	13536.4	13927.4	14691.7	13864.7	10620.7
65°	10272.6	10282.0	10616.5	11934.8	13690.1	13940.0	14579.8	14968.7	15279.2	13754.9	9950.6
67.5°	10660.4	10713.7	11284.6	12917.5	15068.0	15341.9	16097.8	16104.1	15607.5	13110.9	8631.2
70°	11226.0	11335.8	12203.5	14280.8	17027.2	17403.6	17986.9	16771.1	15146.4	11365.1	6791.2
72.5°	11727.8	11932.7	13181.0	15840.6	19415.0	19700.4	19091.9	16386.3	13219.7	8517.3	4230.9
74°	11524.0	11778.0	13358.7	16609.0	20314.1	20451.0	18718.7	15263.5	11022.1	5898.4	2458.9
75°	11084.9	11360.9	13099.4	16601.7	20200.1	20123.8	17817.5	13980.8	9077.6	4022.9	1636.1
77.5°	8945.9	9237.6	11037.8	14228.5	16563.0	16490.9	13687.0	9378.7	3975.8	1319.4	831.1
80°	5201.1	5423.8	6851.9	9035.8	11168.5	11299.2	9001.3	4640.7	1564.0	741.2	563.5
82.5°	2310.4	2464.1	3309.9	4612.5	6740.0	6908.3	4713.9	2431.7	966.0	450.6	338.7
85°	1515.9	1629.9	2009.3	2196.5	3209.5	3324.5	2307.3	1893.3	637.7	247.8	248.8
87.5°	1090.4	1200.2	1492.9	1303.7	1473.0	1394.6	1255.6	1752.2	256.1	141.1	83.6
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°	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3	5229.3
2.5°	5180.2	5163.5	5125.8	5054.7	5015.0	4981.6	4926.1	4893.7	4879.1	4878.1	4884.3
5°	5051.6	5012.9	4915.7	4796.5	4701.4	4614.6	4506.9	4442.1	4396.1	4368.9	4376.2
7.5°	4902.1	4841.5	4688.8	4498.6	4345.9	4177.6	4011.4	3912.1	3834.7	3777.2	3787.7
10°	4799.6	4716.0	4493.3	4219.4	3965.4	3720.7	3491.8	3354.8	3246.1	3162.5	3168.7
12.5°	4765.1	4652.2	4343.8	3977.9	3621.4	3286.9	2987.9	2777.8	2665.9	2570.8	2578.1
15°	4770.4	4618.8	4218.4	3760.5	3312.0	2890.7	2527.9	2282.2	2130.6	2064.8	2065.8
17.5°	4774.6	4580.1	4086.7	3527.3	3005.7	2520.6	2126.4	1877.6	1734.4	1673.8	1674.8
20°	4761.0	4517.4	3923.6	3259.7	2685.8	2180.8	1799.2	1588.0	1479.3	1432.3	1432.3
22.5°	4743.2	4443.1	3739.6	2991.0	2370.0	1886.0	1565.0	1404.0	1341.3	1309.9	1308.9
25°	4751.6	4387.7	3551.4	2715.0	2079.4	1650.8	1409.3	1302.6	1260.8	1240.9	1239.9
27.5°	4796.5	4361.6	3377.8	2440.1	1825.4	1474.1	1304.7	1229.4	1202.3	1189.7	1189.7
30°	4878.1	4361.6	3197.0	2205.9	1614.2	1343.4	1224.2	1173.0	1154.2	1145.8	1145.8
32.5°	5020.2	4385.6	3022.4	1973.8	1445.9	1240.9	1157.3	1122.8	1108.2	1104.0	1104.0
35°	5264.9	4467.2	2852.0	1754.3	1309.9	1157.3	1093.5	1073.7	1063.2	1062.2	1065.3
37.5°	5608.8	4633.4	2692.0	1592.2	1213.8	1089.4	1040.2	1024.5	1018.3	1023.5	1027.7
40°	6041.6	4859.2	2546.7	1445.9	1140.6	1035.0	991.1	980.6	977.5	984.8	991.1
42.5°	6564.4	5164.5	2427.5	1340.3	1084.1	989.0	949.3	936.7	933.6	941.9	950.3
45°	7129.9	5492.8	2343.9	1261.9	1040.2	954.5	912.7	899.1	892.8	897.0	906.4
47.5°	7644.3	5803.3	2310.4	1206.4	998.4	925.2	880.3	863.5	853.1	851.0	858.3
50°	8078.2	6034.3	2326.1	1173.0	964.9	892.8	848.9	830.1	814.4	805.0	810.2
52.5°	8393.9	6179.6	2340.8	1158.4	938.8	857.3	814.4	796.6	775.7	760.0	760.0
55°	8622.8	6213.1	2308.3	1146.9	918.9	818.6	775.7	759.0	738.1	720.3	718.2
57.5°	8712.8	6119.0	2188.1	1130.1	905.4	782.0	734.9	722.4	704.6	683.7	682.7
60°	8591.5	5828.4	1956.0	1094.6	887.6	751.7	694.2	685.8	677.4	657.6	656.5
62.5°	8104.3	5190.6	1656.0	1022.4	852.0	719.3	656.5	660.7	661.8	648.2	646.1
65°	7220.9	4314.6	1363.3	928.4	798.7	680.6	617.9	637.7	649.2	647.1	644.0
67.5°	5937.1	3358.0	1155.2	829.0	728.7	627.3	576.0	599.0	608.5	615.8	613.7
70°	4406.6	2367.9	955.5	724.5	644.0	564.5	521.7	533.2	526.9	535.3	538.4
72.5°	2456.8	1420.8	778.9	619.9	556.2	491.4	461.0	459.0	445.4	445.4	445.4
74°	1474.1	1042.3	684.8	555.1	502.9	443.3	417.1	407.7	395.2	396.2	395.2
75°	1185.5	895.9	628.3	512.3	465.2	415.0	388.9	376.4	367.0	367.0	365.9
77.5°	748.5	680.6	506.0	407.7	372.2	341.9	324.1	307.4	307.4	306.3	305.3
80°	565.6	541.5	394.1	308.4	285.4	262.4	250.9	243.6	243.6	246.7	245.7
82.5°	387.9	407.7	277.0	215.4	203.9	187.1	185.0	186.1	183.0	178.8	177.7
85°	283.3	306.3	187.1	135.9	124.4	114.0	122.3	126.5	121.3	111.9	107.7
87.5°	108.7	200.7	100.4	56.5	52.3	45.0	52.3	54.4	58.5	46.0	47.0
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)