

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: P319611

Luminaire Tested: **GAN-SA7C-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41842 lumens
Efficiency: N/A
Efficacy: 107.0 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): 391
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

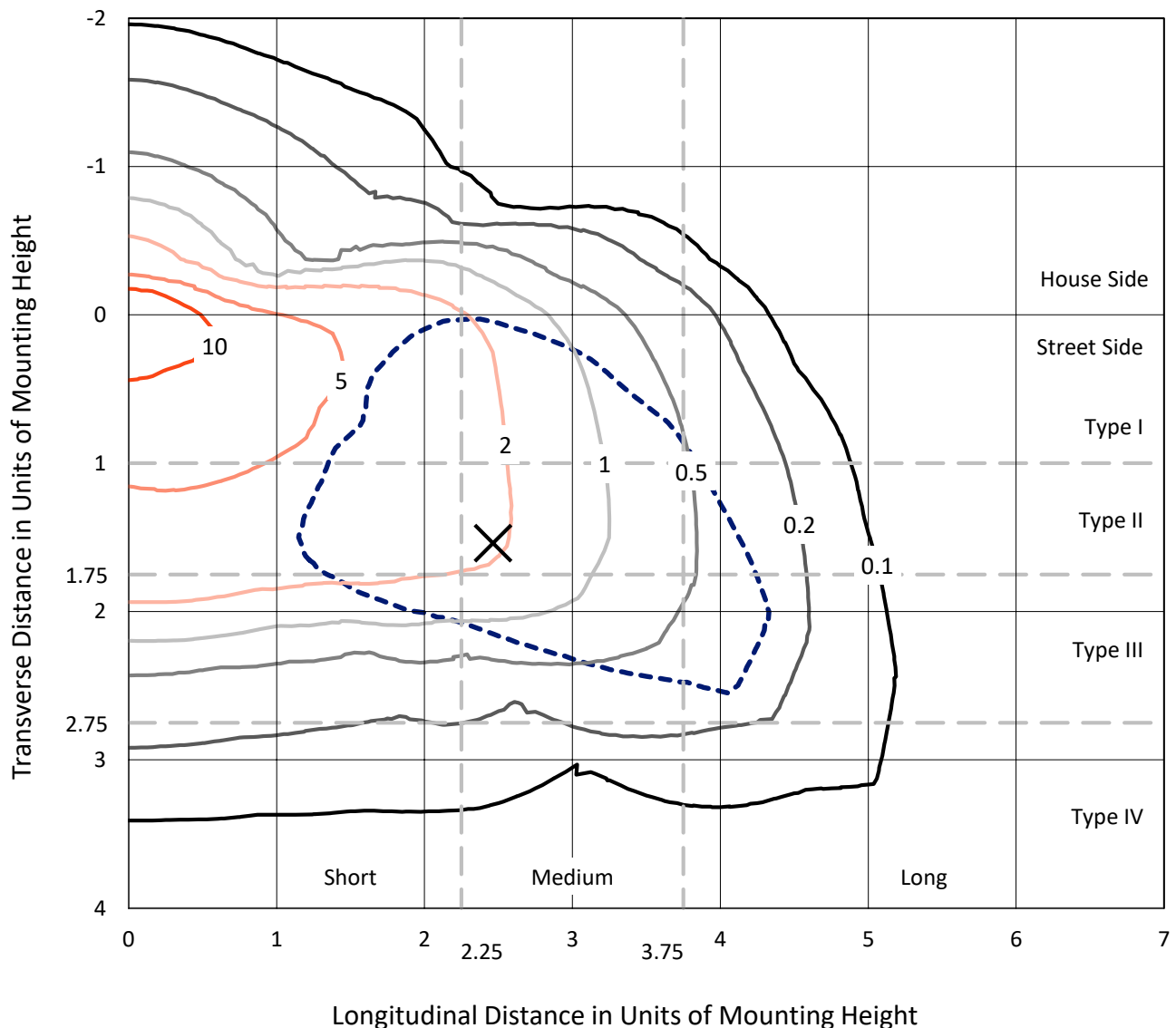


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Iso-Footcandle Lines of Horizontal Illumination

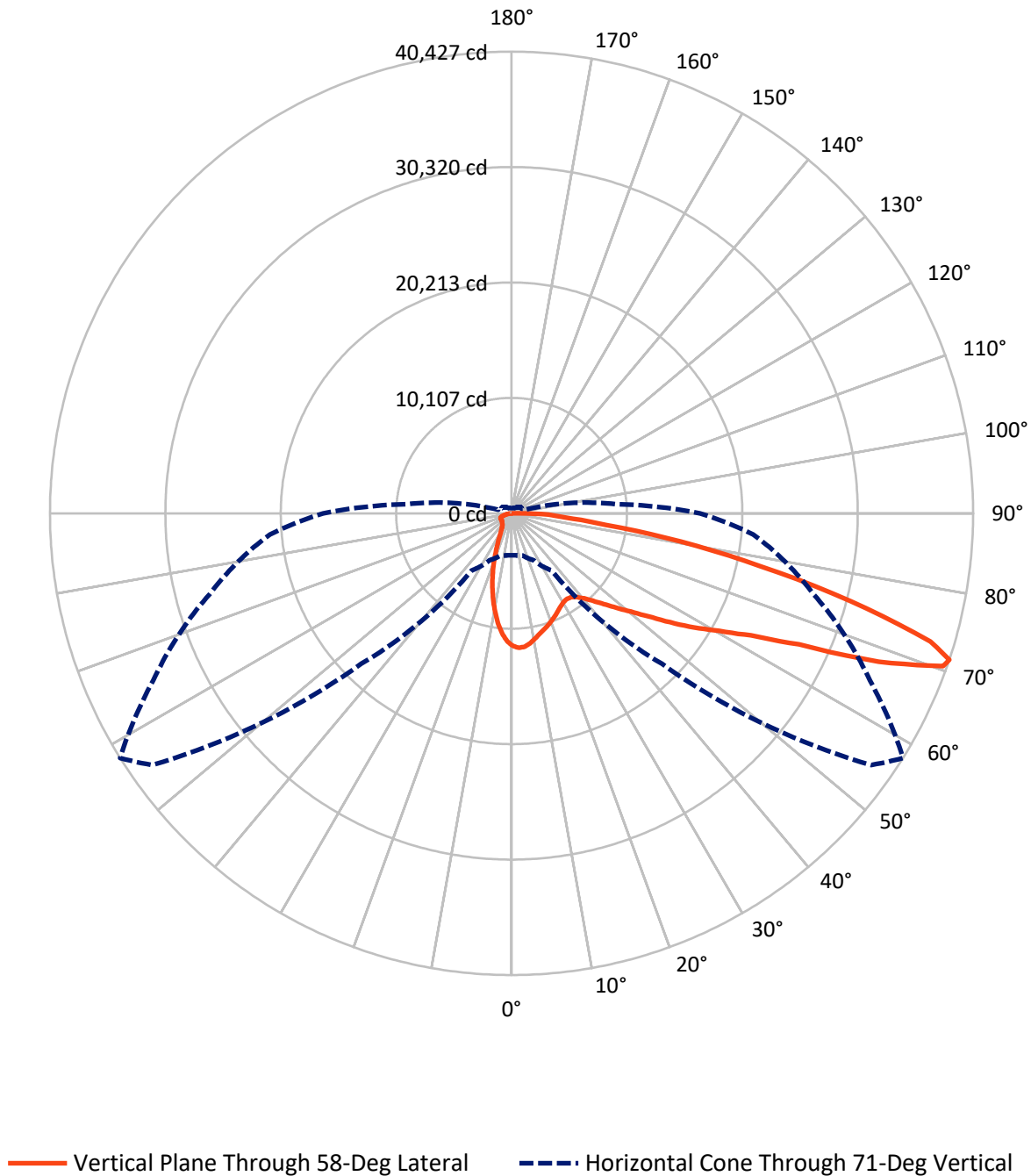
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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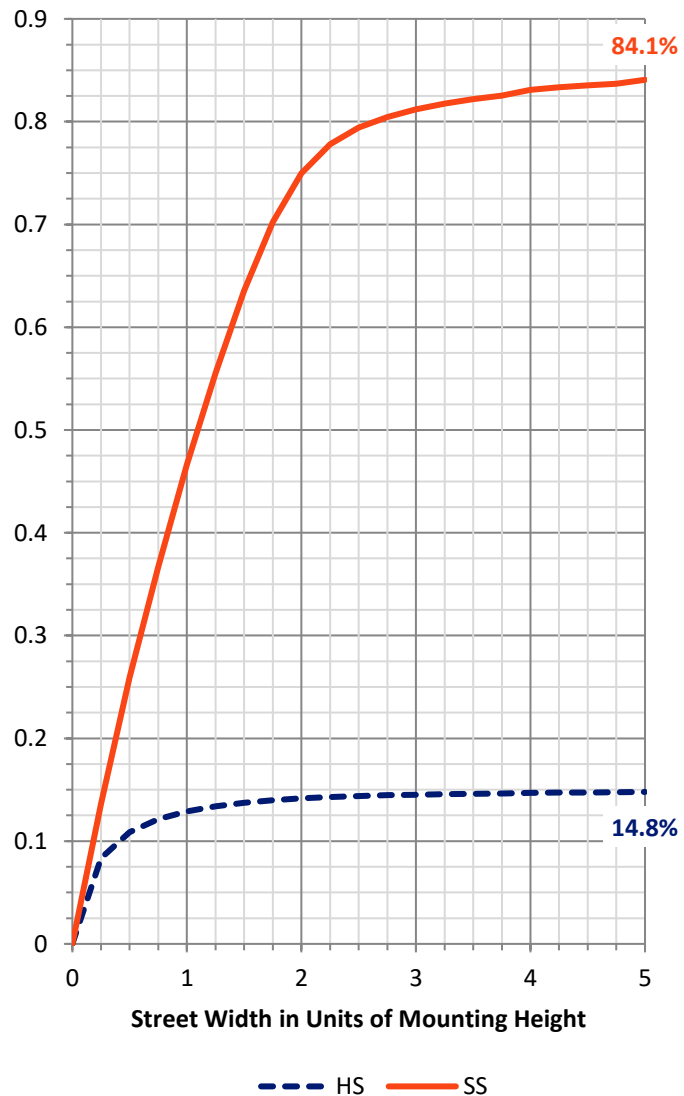
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6255.7	0.0	6255.7
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	35586.3	0.0	35586.3
	% Fixture	85.0	0.0	85.0
Total	Lumens	41842.0	0.0	41842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1000.1	2.4
10°-20°	2223.9	5.3
20°-30°	2826.4	6.8
30°-40°	3600.2	8.6
40°-50°	5105.3	12.2
50°-60°	7900.6	18.9
60°-70°	10755.7	25.7
70°-80°	7175.3	17.1
80°-90°	1254.5	3.0
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°	41842.0	100.0
0°-180°	41842.0	100.0

Coefficient of Utilization



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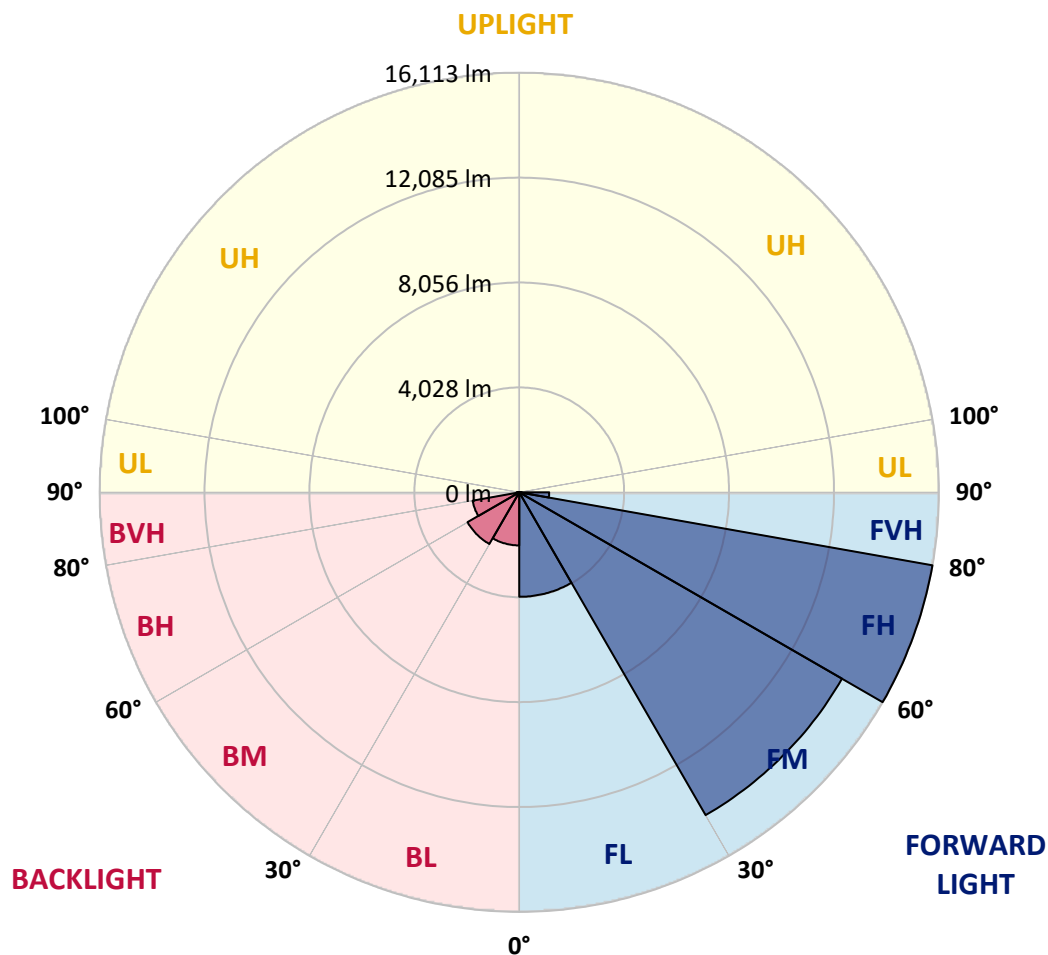
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4011.2	9.6			
FM	(30°-60°)	14312.0	34.2			
FH	(60°-80°)	16112.8	38.5			G5
FVH	(80°-90°)	1150.3	2.7			G5
BL	(0°-30°)	2039.2	4.9	B3/2500		
BM	(30°-60°)	2294.1	5.5	B2/2500		
BH	(60°-80°)	1818.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	104.2	0.2			G2/225
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°	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0
2.5°	11900.6	11884.5	11890.4	11878.7	11851.0	11823.3	11782.5	11789.8	11733.0	11648.4	11543.5
5°	11676.1	11670.3	11714.0	11738.8	11759.2	11743.2	11731.5	11746.1	11663.0	11546.4	11364.2
7.5°	11205.3	11141.2	11196.6	11279.7	11358.4	11418.1	11496.8	11507.0	11454.6	11332.1	11093.1
10°	10536.3	10475.1	10556.7	10686.5	10843.9	10986.7	11145.6	11174.7	11184.9	11074.2	10784.1
12.5°	9842.6	9795.9	9877.5	10059.7	10320.6	10540.7	10794.3	10838.0	10928.4	10854.1	10498.4
15°	9221.7	9204.2	9303.3	9482.6	9782.8	10119.5	10485.3	10565.5	10718.5	10693.7	10275.4
17.5°	8685.3	8680.9	8756.7	8944.7	9277.0	9702.6	10177.8	10313.3	10540.7	10569.9	10091.8
20°	8285.9	8277.2	8329.7	8468.1	8810.6	9293.1	9845.5	10032.0	10360.0	10462.0	9902.3
22.5°	8071.7	8070.2	8071.7	8137.3	8417.1	8866.0	9521.9	9749.3	10183.6	10376.0	9692.4
25°	8035.3	8030.9	7998.8	7991.5	8150.4	8508.9	9201.3	9451.9	10016.0	10316.3	9492.8
27.5°	8130.0	8135.8	8093.6	8025.0	8057.1	8274.3	8922.9	9191.1	9881.9	10304.6	9354.3
30°	8326.8	8323.8	8287.4	8216.0	8153.3	8186.8	8724.7	8992.8	9791.5	10355.6	9259.6
32.5°	8543.9	8560.0	8552.7	8513.3	8420.0	8285.9	8664.9	8927.2	9765.3	10478.0	9218.7
35°	8804.8	8822.3	8874.8	8905.4	8796.1	8580.4	8793.2	9020.5	9841.1	10708.3	9284.3
37.5°	9052.6	9097.8	9245.0	9374.7	9281.4	9040.9	9134.2	9296.0	10075.8	11071.2	9460.7
40°	9338.3	9377.6	9618.1	9893.6	9879.0	9629.8	9683.7	9791.5	10489.7	11591.6	9779.9
42.5°	9619.6	9698.3	10046.6	10437.2	10549.5	10329.4	10415.4	10472.2	11072.7	12281.0	10336.7
45°	9994.1	10078.7	10562.6	11033.3	11295.7	11171.8	11308.8	11330.7	11805.8	13219.6	11145.6
47.5°	10561.1	10657.3	11221.4	11715.5	12116.3	12129.4	12355.3	12346.6	12721.1	14293.8	12164.4
50°	11444.4	11582.8	12044.9	12506.9	12993.7	13264.8	13566.5	13524.2	13818.6	15437.9	13337.7
52.5°	12601.6	12665.8	13008.3	13349.3	13954.2	14562.0	14994.9	14957.0	15063.4	16614.2	14669.8
55°	13801.2	13849.3	13990.6	14177.2	14990.5	15981.6	16896.9	16837.2	16567.5	17835.5	15986.0
57.5°	14879.7	14977.4	15075.0	15152.3	16034.1	17465.3	18842.7	18847.1	18199.9	19153.1	17345.8
60°	15047.3	15133.3	15779.0	16388.2	17819.5	19444.6	20925.5	20881.7	19889.2	20583.0	18861.6
62.5°	13301.2	13495.1	14573.6	16194.4	19539.4	23065.1	23582.5	23528.6	21909.3	22345.1	20626.7
65°	9532.1	9752.2	11053.8	13489.3	18705.7	27054.3	28377.7	27651.9	24664.0	24512.4	22693.4
67.5°	5499.2	5551.7	6115.7	8071.7	14242.8	27262.7	35693.0	34677.1	28941.8	26971.2	23704.9
70°	4066.5	4065.0	4199.1	4967.2	7707.3	22250.3	39172.0	40083.0	33445.5	27780.1	22275.1
71°	3677.3	3681.7	3831.8	4521.2	6104.1	18624.1	38433.1	40426.9	34631.9	27380.8	21240.3
72.5°	3145.3	3159.9	3368.3	4054.8	5134.8	12843.6	35249.9	38363.1	35194.5	26395.5	19621.0
75°	2385.9	2419.5	2708.1	3417.9	4693.2	6513.6	25870.8	30633.9	31265.0	23291.0	14579.5
77.5°	1702.4	1740.3	2066.7	2874.2	4461.4	4908.9	17325.4	22345.1	23008.2	14926.4	6576.3
80°	1075.6	1120.8	1367.1	2286.8	4191.8	4661.1	10887.6	15019.6	12546.2	4776.3	1673.2
82.5°	631.1	666.1	848.3	1493.9	3423.7	4489.1	6405.8	8325.3	4882.7	1442.9	760.8
85°	365.8	381.9	529.1	951.8	2486.5	4237.0	4706.3	4653.8	2119.2	705.4	360.0
87.5°	170.5	189.5	313.4	497.0	1380.3	3071.0	3719.6	3213.8	1317.6	330.9	169.1
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°	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0	11593.0
2.5°	11492.5	11467.7	11364.2	11272.4	11176.2	11050.8	10912.4	10894.9	10810.3	10826.4	10797.2
5°	11265.1	11202.4	10953.2	10727.3	10460.5	10221.5	9962.1	9842.6	9670.6	9658.9	9615.2
7.5°	10940.1	10823.5	10437.2	10008.7	9580.2	9172.1	8768.4	8503.1	8232.0	8116.9	8106.7
10°	10574.2	10376.0	9807.6	9173.6	8555.6	7959.5	7382.3	6955.2	6570.5	6388.3	6381.0
12.5°	10227.3	9934.4	9154.6	8291.8	7446.4	6673.9	5882.5	5321.4	4838.9	4677.1	4608.6
15°	9932.9	9520.5	8519.1	7415.8	6389.7	5317.0	4416.3	3826.0	3380.0	3225.5	3196.3
17.5°	9647.3	9116.7	7867.6	6531.1	5290.8	4111.6	3209.4	2770.7	2533.2	2470.5	2469.0
20°	9363.0	8701.3	7187.0	5626.0	4228.2	3075.3	2467.6	2270.8	2190.6	2183.3	2171.7
22.5°	9040.9	8261.2	6471.3	4718.0	3299.8	2418.0	2097.4	2018.7	2008.4	2034.7	2034.7
25°	8739.2	7823.9	5745.5	3828.9	2566.7	2017.2	1872.9	1856.9	1884.6	1931.2	1935.6
27.5°	8457.9	7402.7	5037.2	3038.9	2056.5	1776.7	1716.9	1735.9	1785.4	1839.4	1840.8
30°	8226.2	7004.8	4349.2	2394.7	1737.4	1597.4	1587.2	1625.1	1679.1	1721.3	1731.5
32.5°	8046.9	6665.2	3684.6	1925.4	1528.9	1463.3	1472.1	1504.1	1537.7	1561.0	1577.0
35°	7963.8	6373.7	3071.0	1623.7	1396.3	1359.9	1371.5	1389.0	1403.6	1421.1	1434.2
37.5°	7978.4	6147.8	2522.9	1435.6	1307.4	1288.4	1288.4	1288.4	1288.4	1297.2	1298.6
40°	8114.0	6018.1	2077.0	1316.1	1247.6	1227.2	1211.2	1196.6	1185.0	1190.8	1187.9
42.5°	8460.8	6006.4	1750.5	1240.3	1199.5	1166.0	1133.9	1113.5	1099.0	1104.8	1107.7
45°	9049.7	6152.1	1530.4	1186.4	1154.3	1103.3	1062.5	1040.7	1030.5	1049.4	1052.3
47.5°	9812.0	6469.9	1396.3	1147.1	1112.1	1045.0	1001.3	980.9	983.8	1011.5	1018.8
50°	10794.3	6985.8	1332.2	1122.3	1082.9	995.5	950.3	932.8	941.6	980.9	989.6
52.5°	11872.9	7729.2	1339.5	1115.0	1064.0	959.0	910.9	890.5	905.1	941.6	948.8
55°	13117.6	8622.6	1460.4	1125.2	1036.3	935.7	878.9	843.9	855.6	889.1	894.9
57.5°	14500.8	9645.8	1703.8	1122.3	1001.3	913.9	845.4	792.9	801.6	822.0	827.9
60°	15940.8	10881.8	2081.3	1131.0	985.3	887.6	800.2	734.6	731.7	749.2	752.1
62.5°	17669.4	12311.6	2512.7	1136.9	995.5	854.1	740.4	676.3	667.5	671.9	674.8
65°	19450.5	13346.4	2351.0	1113.5	1027.5	826.4	687.9	619.4	603.4	600.5	602.0
67.5°	19505.9	12237.3	1648.4	1066.9	1040.7	811.8	648.6	571.3	545.1	534.9	533.4
70°	17493.0	9941.7	1284.1	1017.3	988.2	788.5	612.2	532.0	492.6	476.6	475.1
71°	16510.7	9151.7	1217.0	992.6	948.8	765.2	596.1	514.5	473.7	456.2	453.3
72.5°	14970.1	8204.3	1135.4	953.2	873.0	705.4	565.5	489.7	447.5	427.1	422.7
75°	10743.3	5365.1	975.1	849.7	722.9	562.6	495.6	440.2	403.7	379.0	376.0
77.5°	4139.3	2135.3	737.5	706.9	553.9	440.2	408.1	380.4	354.2	329.4	327.9
80°	1279.7	954.7	537.8	532.0	400.8	327.9	317.7	310.4	300.2	274.0	268.2
82.5°	683.6	548.0	370.2	344.0	262.4	218.6	230.3	233.2	234.7	207.0	204.1
85°	326.5	290.0	208.4	195.3	153.0	122.4	141.4	153.0	154.5	126.8	118.1
87.5°	156.0	151.6	97.7	74.3	56.8	40.8	49.6	61.2	67.0	48.1	42.3
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)