

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: P319299

Luminaire Tested: **GAN-SA5D-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319299
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-SA5D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 31770 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

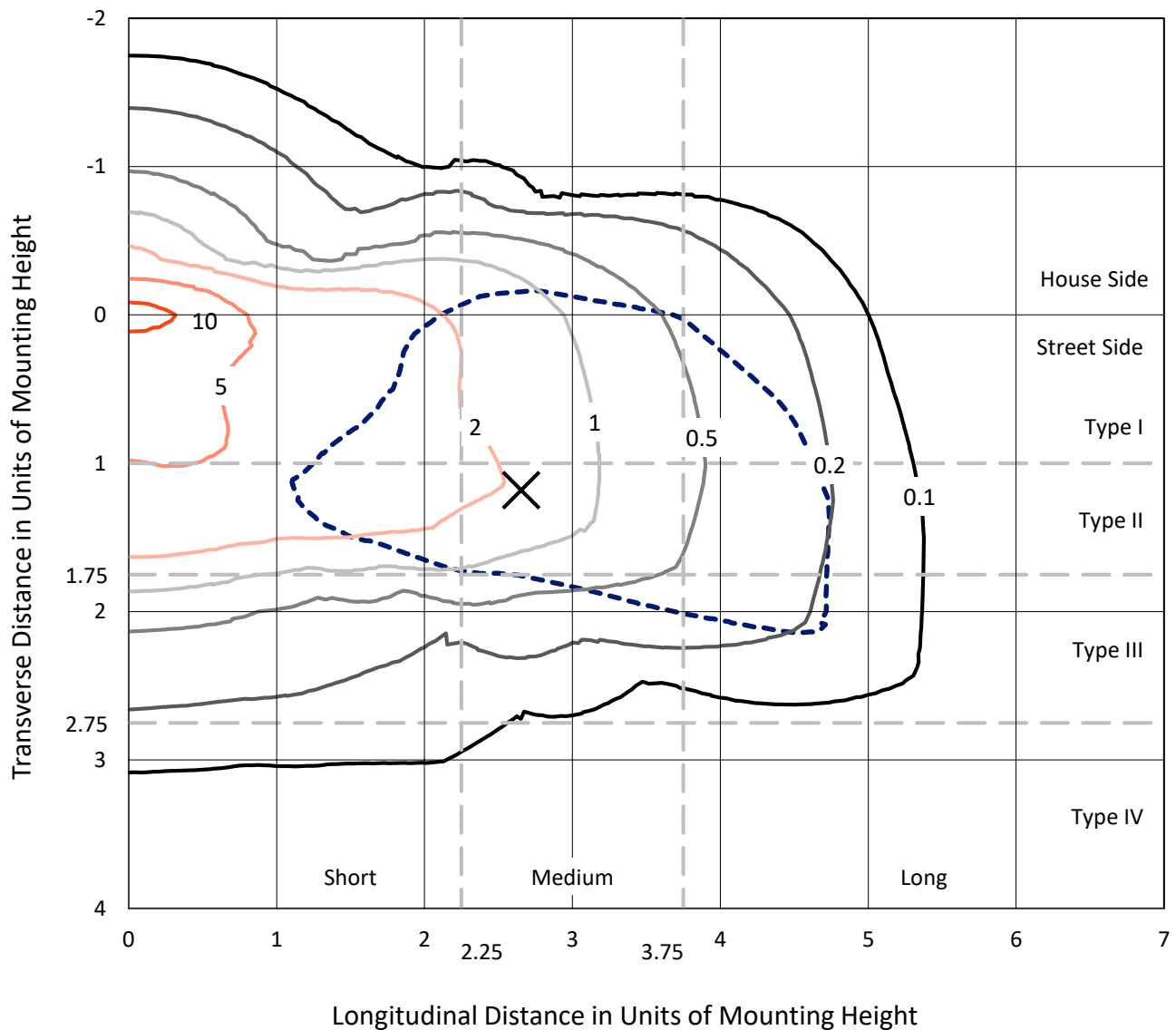


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Iso-Footcandle Lines of Horizontal Illumination

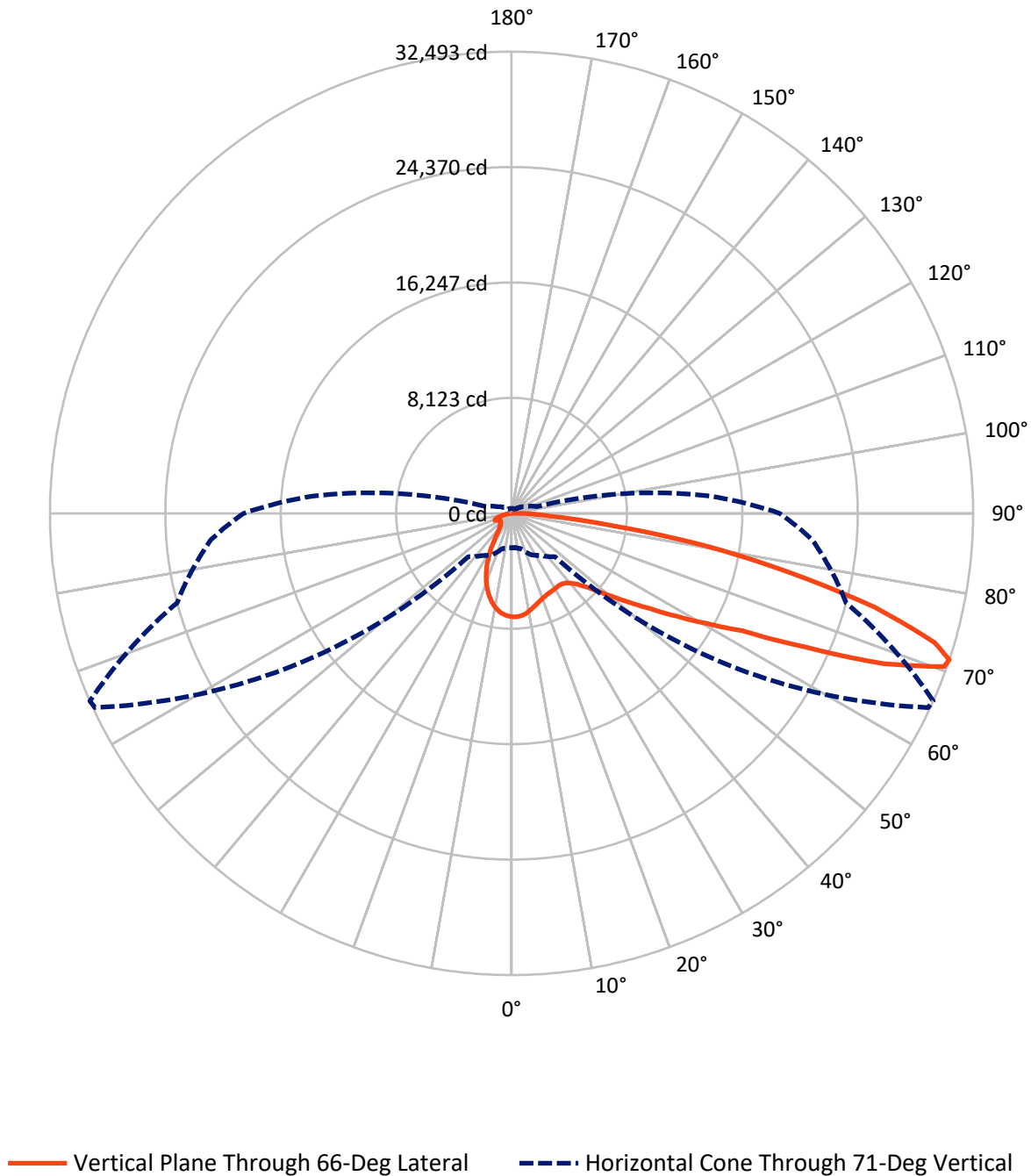
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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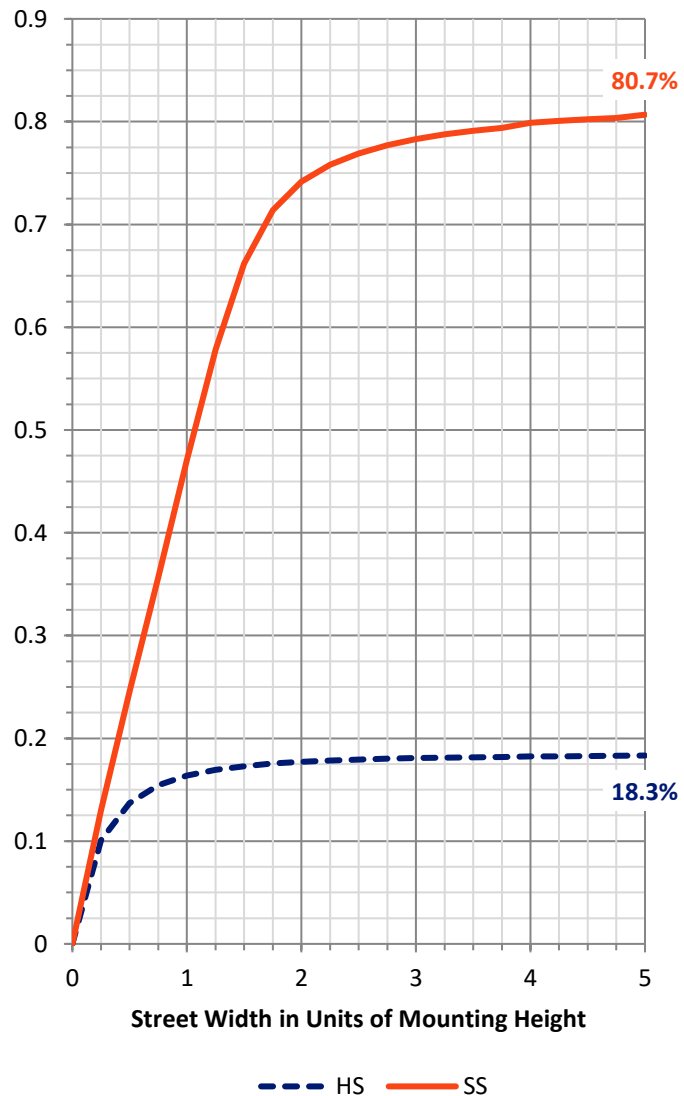
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5887.8	0.0	5887.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	25882.2	0.0	25882.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	31770.0	0.0	31770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.6	2.0
10°-20°	1536.5	4.8
20°-30°	2063.9	6.5
30°-40°	2715.0	8.5
40°-50°	3949.7	12.4
50°-60°	6169.8	19.4
60°-70°	7728.7	24.3
70°-80°	5895.3	18.6
80°-90°	1070.5	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°	31770.0	100.0
0°-180°	31770.0	100.0

Coefficient of Utilization



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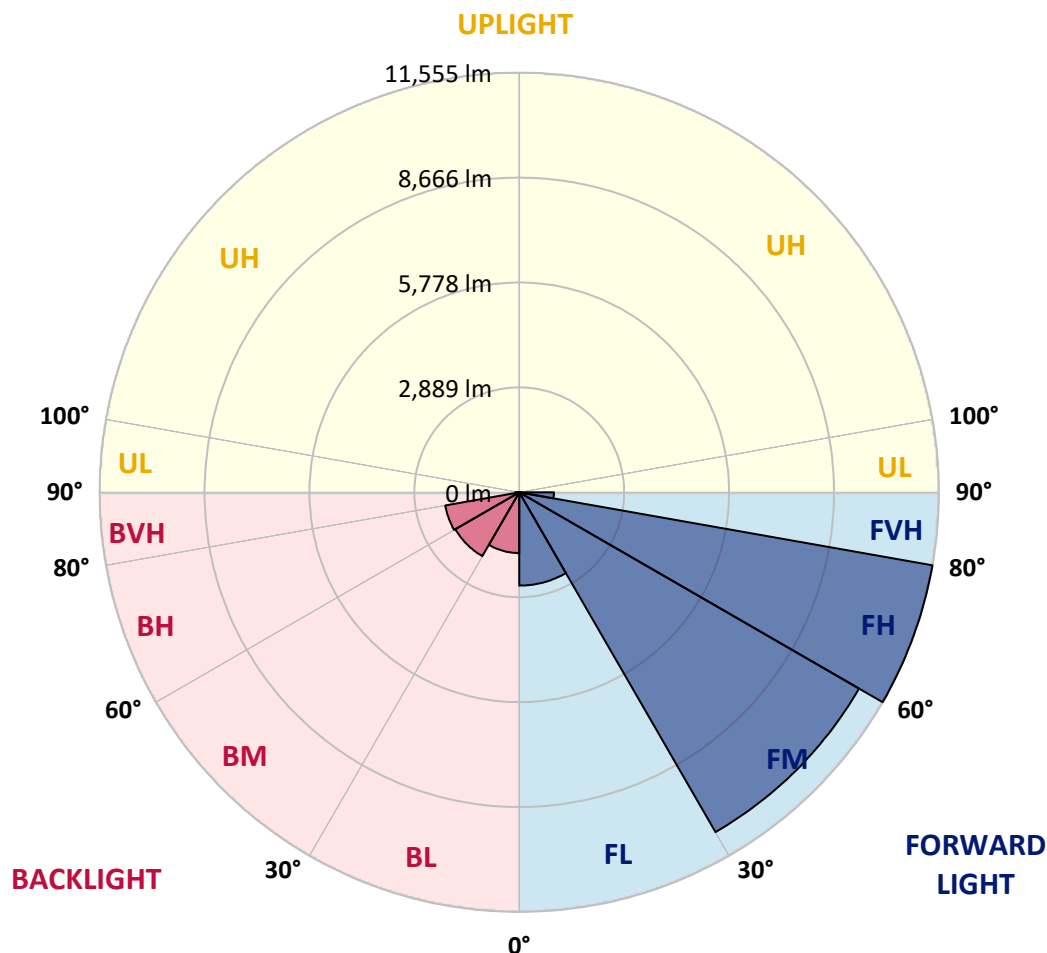
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2569.0	8.1			
FM	(30°-60°)	10803.4	34.0			
FH	(60°-80°)	11555.1	36.4			G4/12000
FVH	(80°-90°)	954.6	3.0			G5
BL	(0°-30°)	1672.0	5.3	B3/2500		
BM	(30°-60°)	2031.1	6.4	B2/2500		
BH	(60°-80°)	2068.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	115.9	0.4			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°	65°	66°	75°	85°
0°	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9
2.5°	7143.0	7132.0	7164.9	7198.9	7212.1	7234.0	7266.9	7285.6	7284.5	7287.8	7276.8
5°	6669.1	6654.9	6720.7	6774.4	6877.5	6993.8	7135.3	7236.2	7238.4	7295.4	7310.8
7.5°	6220.5	6210.6	6286.3	6373.0	6492.5	6670.2	6899.5	7116.6	7129.8	7284.5	7338.2
10°	5860.7	5858.5	5932.0	6026.3	6165.6	6364.2	6627.4	6945.5	6965.3	7231.8	7342.6
12.5°	5579.9	5584.3	5647.9	5755.4	5902.4	6109.7	6394.9	6753.6	6785.4	7148.5	7317.4
15°	5372.6	5390.1	5441.7	5550.3	5695.1	5905.7	6198.5	6575.9	6624.1	7055.2	7303.1
17.5°	5254.1	5273.9	5310.1	5400.0	5536.0	5738.9	6016.5	6430.0	6473.9	6983.9	7304.2
20°	5219.0	5235.5	5256.3	5311.2	5426.3	5610.6	5872.8	6298.4	6345.5	6926.9	7315.2
22.5°	5288.1	5300.2	5302.4	5298.0	5368.2	5518.5	5768.6	6201.8	6252.3	6889.6	7322.9
25°	5436.2	5452.7	5440.6	5400.0	5377.0	5469.1	5714.8	6138.2	6188.7	6862.2	7307.5
27.5°	5658.9	5661.1	5651.2	5598.5	5490.0	5474.6	5698.4	6100.9	6149.2	6830.4	7275.7
30°	5961.6	5975.9	5958.3	5887.0	5709.3	5562.3	5718.1	6064.7	6108.6	6789.8	7224.1
32.5°	6315.9	6351.0	6349.9	6275.3	6020.9	5758.7	5799.3	6042.8	6076.8	6747.0	7161.6
35°	6683.4	6731.6	6821.6	6789.8	6475.0	6069.1	5955.0	6077.9	6100.9	6741.5	7117.7
37.5°	7065.1	7113.4	7298.7	7384.3	7015.7	6513.4	6200.7	6201.8	6212.8	6808.4	7114.5
40°	7464.4	7515.9	7794.5	8017.2	7716.6	7076.1	6596.7	6460.7	6448.6	6973.0	7179.2
42.5°	8023.8	8069.8	8404.4	8688.5	8494.3	7796.7	7144.1	6860.0	6834.7	7295.4	7386.5
45°	8731.3	8770.8	9126.2	9430.0	9330.2	8619.4	7831.8	7409.5	7405.1	7832.9	7806.6
47.5°	9572.6	9603.3	9922.5	10216.5	10252.7	9566.0	8696.2	8257.4	8186.1	8570.0	8457.1
50°	10449.0	10483.0	10700.2	11016.1	11284.8	10832.9	9808.4	9296.2	9200.7	9543.0	9378.4
52.5°	11029.3	11074.2	11262.9	11663.3	12445.4	12221.6	11123.6	10555.4	10410.6	10722.1	10596.0
55°	10770.4	10871.3	11159.8	11801.5	13373.3	14343.0	12745.9	12024.2	11860.7	12119.6	12045.0
57.5°	9593.4	9731.6	10125.4	11115.9	13503.9	16212.1	15198.6	13754.0	13638.8	13564.2	13598.2
60°	7442.4	7575.2	8063.3	9354.3	12594.5	17576.6	18889.6	15886.3	15719.6	15014.3	15045.0
62.5°	5267.3	5200.4	5534.9	6479.4	10234.0	17736.8	23089.6	18738.2	18189.8	16545.5	16410.6
65°	4016.8	4001.5	4151.7	4452.3	6198.5	15820.5	25591.6	23531.7	22675.0	18346.6	18028.6
67.5°	3300.6	3273.1	3421.2	3858.9	3991.6	10206.6	25646.5	29092.9	28251.6	20588.7	19899.9
70°	2713.7	2683.0	2821.2	3386.1	3688.9	5176.2	21584.7	32349.6	32304.6	23427.5	21312.7
71°	2432.9	2411.0	2576.6	3204.0	3624.1	4314.1	18636.2	32358.4	32493.3	24388.3	21229.3
72.5°	1981.0	1988.7	2164.2	2851.9	3575.9	3809.5	13696.9	30850.1	31135.3	25304.2	20471.3
75°	1316.3	1322.9	1553.2	2193.8	3467.3	3727.2	7528.0	25886.7	26411.0	24755.8	18680.1
77.5°	884.1	881.9	1038.8	1504.9	3020.8	3727.2	4413.9	19361.3	19937.1	19698.0	14401.1
80°	608.8	604.4	715.2	1038.8	2287.0	3772.2	3412.4	13568.6	13743.0	10637.7	5853.0
82.5°	372.9	376.2	467.3	733.8	1556.5	3394.9	3221.6	7398.6	7208.8	2983.6	1462.2
85°	213.9	212.8	298.4	496.9	999.3	2865.1	3141.5	3184.3	2921.0	898.4	528.7
87.5°	76.8	82.3	160.1	275.3	572.6	1995.3	2665.5	1656.3	1492.9	405.9	239.1
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°	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9	7277.9
2.5°	7269.1	7275.7	7268.0	7224.1	7186.8	7126.5	7092.5	7045.4	7031.1	7024.5	7042.1
5°	7296.5	7298.7	7234.0	7118.8	6989.4	6836.9	6727.3	6592.3	6528.7	6501.3	6518.8
7.5°	7321.8	7311.9	7170.4	6949.9	6710.8	6445.3	6209.5	5993.4	5867.3	5815.7	5820.1
10°	7325.1	7283.4	7056.3	6715.2	6344.4	5955.0	5593.1	5259.6	5049.0	4911.9	4953.6
12.5°	7291.1	7220.9	6888.5	6411.3	5896.9	5366.0	4876.8	4376.6	4076.1	3936.8	3941.1
15°	7264.7	7137.5	6682.3	6053.8	5362.7	4659.6	3991.6	3403.7	3083.4	2940.8	2873.9
17.5°	7242.8	7047.5	6443.2	5651.2	4732.0	3840.2	3037.3	2513.0	2337.5	2295.8	2278.2
20°	7212.1	6952.1	6176.6	5185.0	4013.5	2923.2	2217.9	1959.1	1960.1	2008.4	2015.0
22.5°	7169.3	6843.5	5892.5	4661.8	3242.4	2129.1	1738.6	1664.0	1739.7	1831.8	1848.3
25°	7105.7	6715.2	5576.6	4083.7	2472.4	1636.6	1485.2	1481.9	1574.0	1670.6	1684.8
27.5°	7015.7	6547.4	5225.6	3462.9	1821.9	1390.9	1330.5	1353.6	1421.6	1491.8	1497.3
30°	6895.1	6352.1	4838.4	2808.0	1428.2	1238.4	1231.8	1252.7	1294.3	1343.7	1348.1
32.5°	6762.4	6153.6	4424.9	2174.0	1223.0	1156.1	1162.7	1172.6	1192.3	1212.1	1216.5
35°	6641.7	5950.7	4001.5	1651.9	1125.4	1102.4	1098.0	1095.8	1098.0	1091.4	1092.5
37.5°	6563.8	5782.8	3560.5	1315.2	1069.5	1055.2	1042.0	1025.6	1006.9	996.0	998.2
40°	6535.3	5657.8	3114.1	1136.4	1023.4	1013.5	988.3	953.2	931.3	924.7	924.7
42.5°	6612.1	5593.1	2683.0	1046.4	985.0	968.6	926.9	886.3	869.8	868.7	867.6
45°	6846.8	5619.4	2272.8	997.1	949.9	918.1	863.3	829.3	818.3	820.5	819.4
47.5°	7268.0	5785.0	1921.8	964.2	914.8	873.1	811.7	784.3	771.1	771.1	772.2
50°	7984.3	6172.2	1642.1	936.7	885.2	831.4	774.4	740.4	722.9	721.8	721.8
52.5°	9027.4	6865.5	1467.6	913.7	852.3	794.2	737.1	694.3	673.5	669.1	666.9
55°	10334.9	7859.2	1419.4	898.4	808.4	753.6	692.1	649.4	626.3	616.5	615.4
57.5°	11797.1	9068.0	1514.8	879.7	763.4	705.3	642.8	602.2	578.1	566.0	564.9
60°	13276.8	10387.6	1904.2	853.4	726.1	652.7	592.3	555.0	530.9	517.7	515.5
62.5°	14758.7	11778.4	2699.5	851.2	699.8	602.2	540.8	509.0	485.9	471.7	468.4
65°	16430.4	13300.9	3603.3	909.3	691.0	556.1	488.1	462.9	443.1	430.0	428.9
67.5°	18349.9	15019.8	3516.6	1028.9	720.7	514.4	438.8	419.0	404.8	393.8	392.7
70°	19250.5	14751.0	2186.1	1113.3	762.3	473.9	391.6	377.3	366.4	358.7	355.4
71°	18873.2	14006.2	1832.9	1103.5	758.0	456.3	372.9	362.0	351.0	344.4	341.1
72.5°	17844.3	12773.3	1529.1	1026.7	708.6	424.5	348.8	337.8	328.0	320.3	318.1
75°	16012.5	11407.7	1224.1	820.5	564.9	358.7	306.0	294.0	286.3	281.9	277.5
77.5°	11770.8	8141.1	946.6	648.3	415.7	292.9	261.1	252.3	244.6	238.0	234.7
80°	4509.3	3153.6	637.3	483.7	304.9	231.4	210.6	206.2	198.5	194.2	194.2
82.5°	1214.3	942.2	340.0	292.9	204.0	168.9	161.2	159.0	152.5	143.7	144.8
85°	491.4	415.7	190.9	161.2	125.0	99.8	108.6	109.7	102.0	91.0	92.1
87.5°	216.1	176.6	106.4	71.3	54.8	38.4	49.4	49.4	45.0	37.3	34.0
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)