

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: P319591

Luminaire Tested: **GAN-SA7A-727-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319591
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-SA7A-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 27568 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

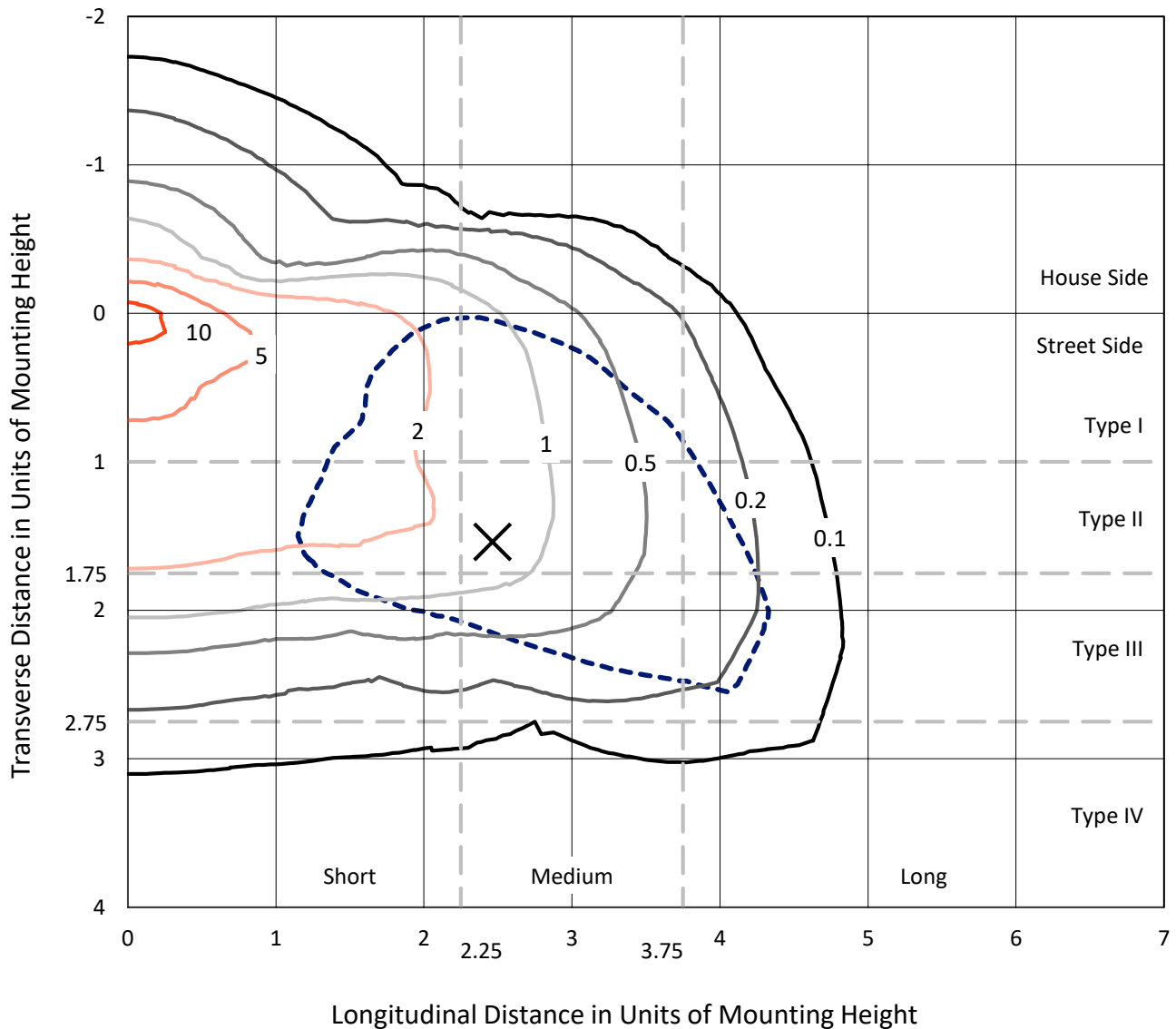
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

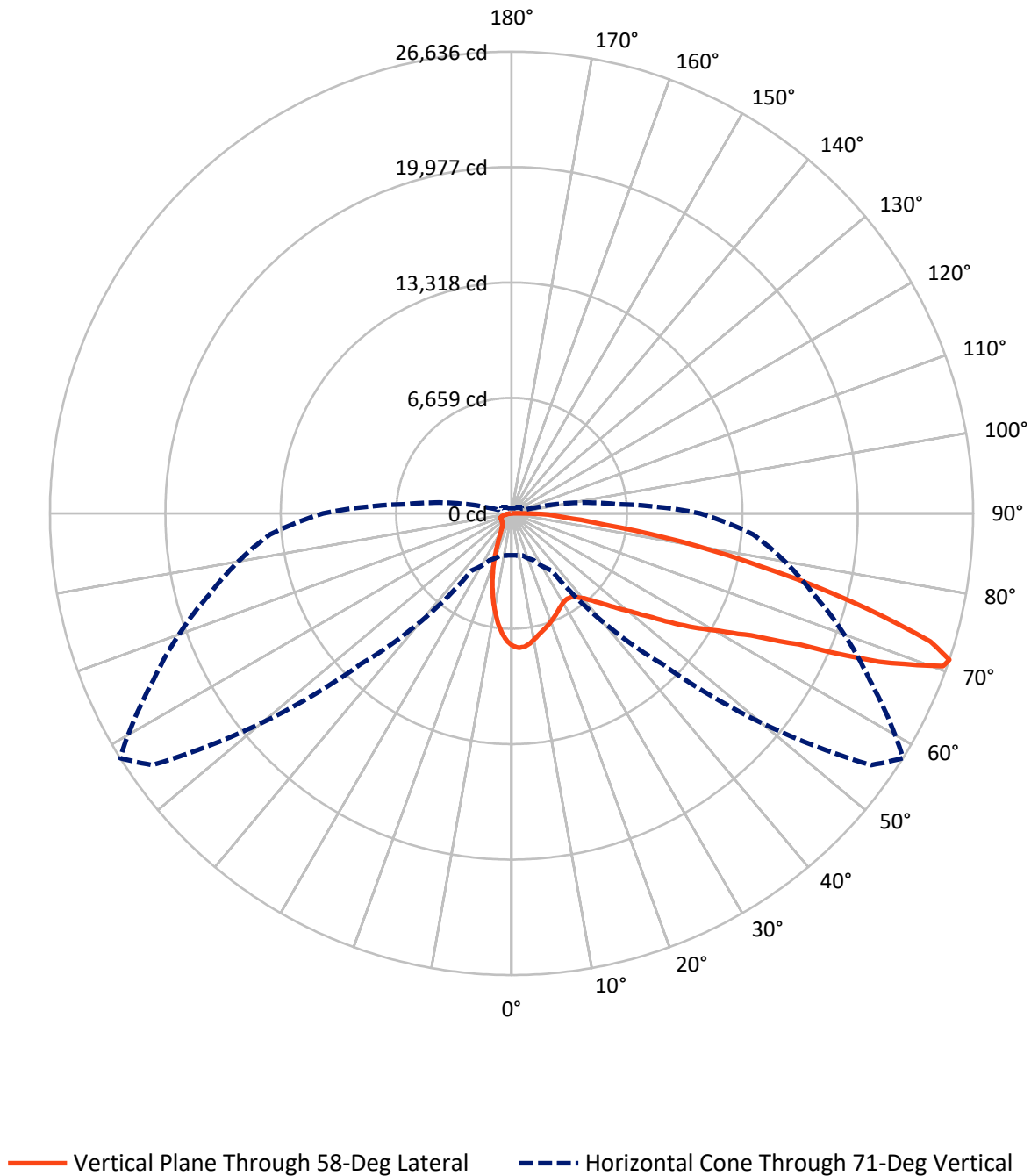
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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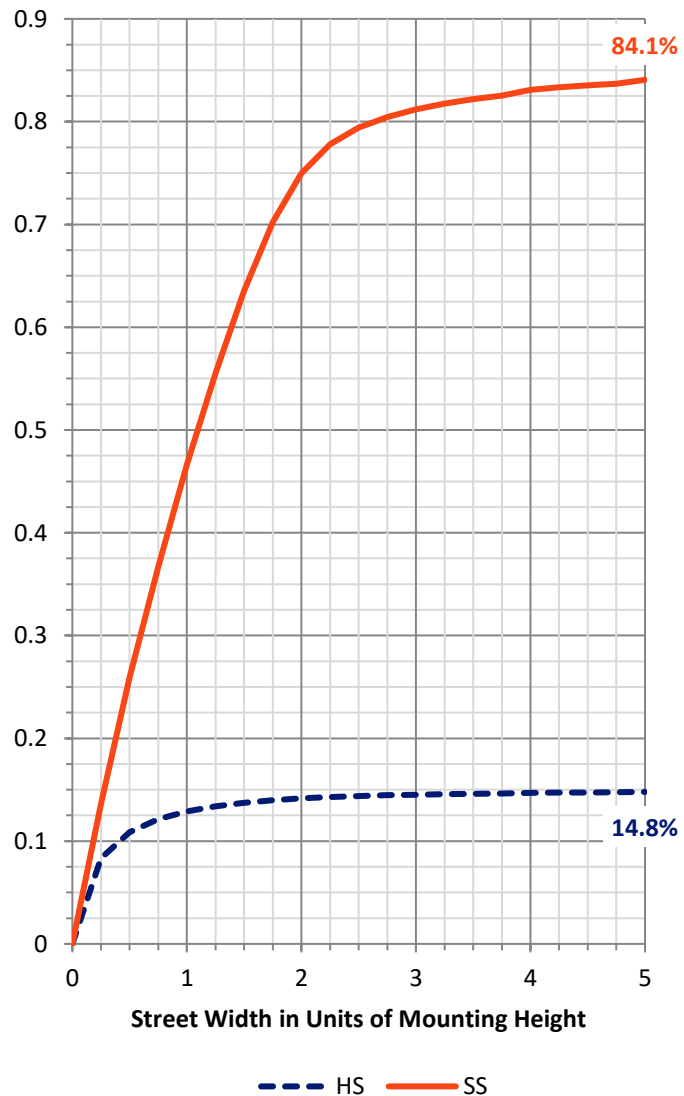
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4121.6	0.0	4121.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	23446.4	0.0	23446.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	27568.0	0.0	27568.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.9	2.4
10°-20°	1465.2	5.3
20°-30°	1862.2	6.8
30°-40°	2372.0	8.6
40°-50°	3363.7	12.2
50°-60°	5205.4	18.9
60°-70°	7086.5	25.7
70°-80°	4727.5	17.1
80°-90°	826.5	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°	27568.0	100.0
0°-180°	27568.0	100.0

Coefficient of Utilization



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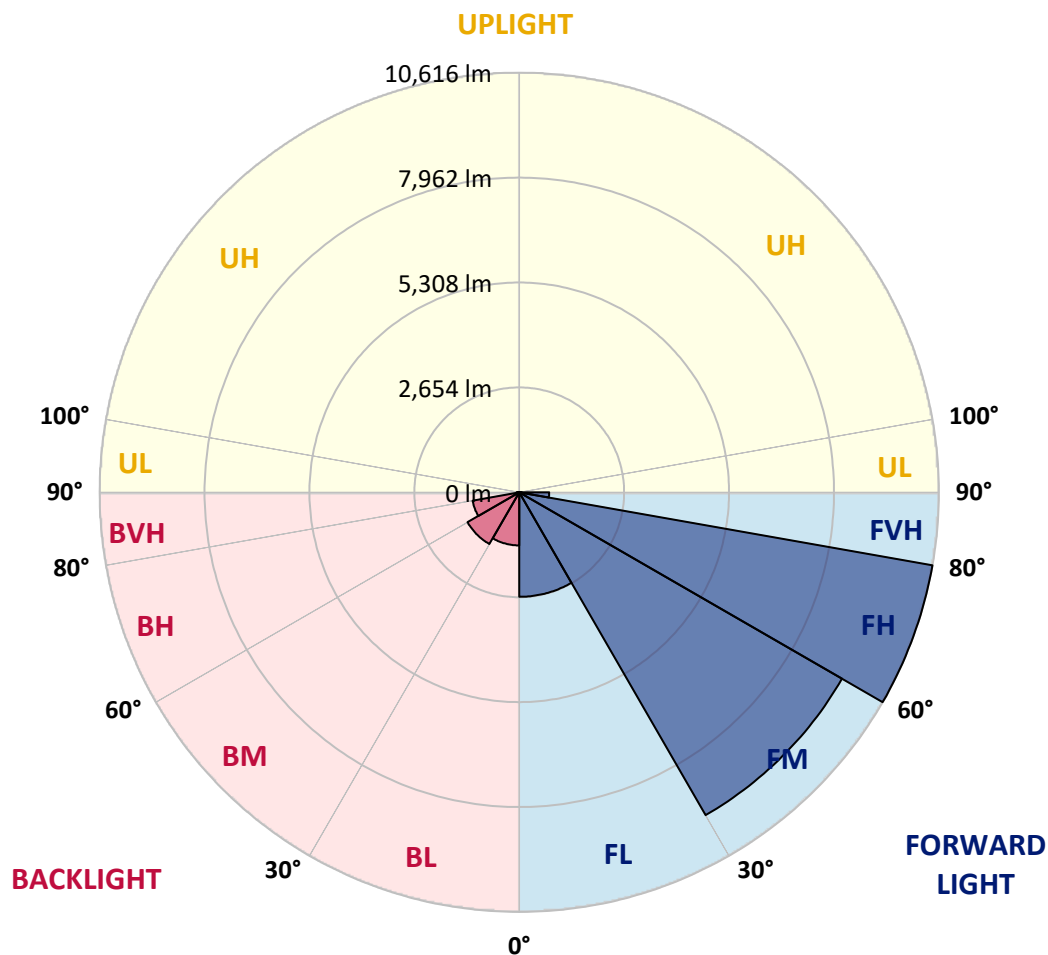
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2642.8	9.6			
FM	(30°-60°)	9429.6	34.2			
FH	(60°-80°)	10616.1	38.5			G4/12000
FVH	(80°-90°)	757.9	2.7			G5
BL	(0°-30°)	1343.5	4.9	B3/2500		
BM	(30°-60°)	1511.5	5.5	B2/2500		
BH	(60°-80°)	1197.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	68.7	0.2			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2
2.5°	7840.8	7830.2	7834.1	7826.4	7808.2	7789.9	7763.0	7767.8	7730.4	7674.7	7605.5
5°	7692.9	7689.1	7717.9	7734.2	7747.7	7737.1	7729.4	7739.0	7684.3	7607.4	7487.4
7.5°	7382.7	7340.5	7377.0	7431.7	7483.6	7522.9	7574.8	7581.5	7547.0	7466.3	7308.8
10°	6942.0	6901.6	6955.4	7040.9	7144.6	7238.7	7343.4	7362.6	7369.3	7296.3	7105.2
12.5°	6484.9	6454.1	6507.9	6627.9	6799.8	6944.8	7111.9	7140.7	7200.3	7151.3	6917.0
15°	6075.8	6064.3	6129.6	6247.7	6445.5	6667.3	6908.4	6961.2	7062.0	7045.7	6770.1
17.5°	5722.4	5719.5	5769.4	5893.3	6112.3	6392.7	6705.7	6795.0	6944.8	6964.1	6649.1
20°	5459.3	5453.5	5488.1	5579.3	5805.0	6122.8	6486.8	6609.7	6825.8	6893.0	6524.2
22.5°	5318.1	5317.1	5318.1	5361.3	5545.7	5841.5	6273.6	6423.4	6709.6	6836.3	6386.0
25°	5294.1	5291.2	5270.1	5265.3	5370.0	5606.2	6062.3	6227.5	6599.1	6797.0	6254.4
27.5°	5356.5	5360.4	5332.5	5287.4	5308.5	5451.6	5878.9	6055.6	6510.8	6789.3	6163.2
30°	5486.2	5484.2	5460.2	5413.2	5371.9	5394.0	5748.3	5925.0	6451.3	6822.9	6100.7
32.5°	5629.2	5639.8	5635.0	5609.1	5547.6	5459.3	5708.9	5881.8	6434.0	6903.6	6073.9
35°	5801.1	5812.7	5847.2	5867.4	5795.4	5653.3	5793.5	5943.3	6483.9	7055.3	6117.1
37.5°	5964.4	5994.2	6091.1	6176.6	6115.2	5956.7	6018.2	6124.8	6638.5	7294.4	6233.3
40°	6152.6	6178.5	6337.0	6518.5	6508.9	6344.7	6380.2	6451.3	6911.2	7637.2	6443.6
42.5°	6337.9	6389.8	6619.3	6876.7	6950.6	6805.6	6862.3	6899.7	7295.4	8091.4	6810.4
45°	6584.7	6640.4	6959.3	7269.4	7442.3	7360.7	7450.9	7465.3	7778.4	8709.9	7343.4
47.5°	6958.3	7021.7	7393.3	7718.8	7982.9	7991.6	8140.4	8134.7	8381.4	9417.6	8014.6
50°	7540.2	7631.5	7935.9	8240.3	8561.0	8739.6	8938.4	8910.6	9104.5	10171.4	8787.7
52.5°	8302.7	8345.0	8570.6	8795.3	9193.9	9594.3	9879.5	9854.5	9924.6	10946.4	9665.4
55°	9093.0	9124.7	9217.9	9340.8	9876.6	10529.6	11132.7	11093.3	10915.7	11751.1	10532.5
57.5°	9803.6	9868.0	9932.3	9983.2	10564.2	11507.2	12414.7	12417.6	11991.2	12619.2	11428.5
60°	9914.1	9970.7	10396.1	10797.5	11740.6	12811.3	13786.9	13758.1	13104.2	13561.3	12427.2
62.5°	8763.6	8891.4	9602.0	10669.8	12873.7	15196.7	15537.6	15502.0	14435.1	14722.3	13590.1
65°	6280.3	6425.3	7282.9	8887.5	12324.4	17825.0	18696.9	18218.7	16250.1	16150.2	14951.8
67.5°	3623.2	3657.8	4029.4	5318.1	9384.0	17962.3	23516.6	22847.3	19068.6	17770.2	15618.2
70°	2679.2	2678.3	2766.6	3272.7	5078.0	14659.8	25808.9	26409.0	22035.9	18303.2	14676.2
71°	2422.8	2425.7	2524.6	2978.8	4021.7	12270.6	25322.0	26635.7	22817.5	18040.1	13994.4
72.5°	2072.3	2081.9	2219.2	2671.5	3383.1	8462.1	23224.7	25275.9	23188.2	17390.9	12927.5
75°	1572.0	1594.1	1784.2	2251.9	3092.1	4291.6	17045.2	20183.5	20599.3	15345.5	9605.8
77.5°	1121.6	1146.6	1361.7	1893.7	2939.5	3234.3	11415.0	14722.3	15159.2	9834.4	4332.8
80°	708.7	738.5	900.8	1506.7	2761.8	3071.0	7173.4	9895.8	8266.2	3146.9	1102.4
82.5°	415.8	438.9	558.9	984.3	2255.7	2957.7	4220.5	5485.2	3217.0	950.7	501.3
85°	241.0	251.6	348.6	627.1	1638.3	2791.6	3100.8	3066.2	1396.3	464.8	237.2
87.5°	112.4	124.8	206.5	327.5	909.4	2023.3	2450.7	2117.4	868.1	218.0	111.4
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°	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2	7638.2
2.5°	7571.9	7555.6	7487.4	7426.9	7363.5	7280.9	7189.7	7178.2	7122.5	7133.1	7113.9
5°	7422.1	7380.8	7216.6	7067.8	6892.0	6734.5	6563.6	6484.9	6371.6	6363.9	6335.1
7.5°	7208.0	7131.1	6876.7	6594.3	6312.0	6043.1	5777.1	5602.4	5423.7	5347.9	5341.2
10°	6966.9	6836.3	6461.8	6044.1	5636.9	5244.2	4863.9	4582.5	4329.0	4209.0	4204.2
12.5°	6738.4	6545.4	6031.6	5463.1	4906.1	4397.2	3875.7	3506.0	3188.2	3081.6	3036.4
15°	6544.4	6272.6	5612.9	4886.0	4209.9	3503.2	2909.7	2520.8	2226.9	2125.1	2105.9
17.5°	6356.2	6006.6	5183.7	4303.1	3485.9	2709.0	2114.6	1825.5	1669.0	1627.7	1626.7
20°	6168.9	5733.0	4735.2	3706.7	2785.8	2026.2	1625.8	1496.1	1443.3	1438.5	1430.8
22.5°	5956.7	5442.9	4263.7	3108.5	2174.1	1593.1	1381.9	1330.0	1323.3	1340.6	1340.6
25°	5757.9	5154.9	3785.5	2522.7	1691.1	1329.0	1234.0	1223.4	1241.7	1272.4	1275.3
27.5°	5572.6	4877.3	3318.8	2002.2	1355.0	1170.6	1131.2	1143.7	1176.4	1211.9	1212.9
30°	5419.9	4615.2	2865.5	1577.8	1144.7	1052.5	1045.8	1070.7	1106.3	1134.1	1140.8
32.5°	5301.8	4391.4	2427.6	1268.5	1007.3	964.1	969.9	991.0	1013.1	1028.5	1039.0
35°	5247.0	4199.4	2023.3	1069.8	920.0	896.0	903.6	915.2	924.8	936.3	944.9
37.5°	5256.6	4050.5	1662.3	945.9	861.4	848.9	848.9	848.9	848.9	854.7	855.6
40°	5346.0	3965.1	1368.4	867.1	822.0	808.6	798.0	788.4	780.7	784.6	782.6
42.5°	5574.5	3957.4	1153.3	817.2	790.3	768.2	747.1	733.7	724.1	727.9	729.8
45°	5962.5	4053.4	1008.3	781.7	760.6	726.9	700.1	685.6	678.9	691.4	693.3
47.5°	6464.7	4262.7	920.0	755.8	732.7	688.5	659.7	646.3	648.2	666.4	671.2
50°	7111.9	4602.7	877.7	739.4	713.5	655.9	626.1	614.6	620.3	646.3	652.0
52.5°	7822.6	5092.4	882.5	734.6	701.0	631.9	600.2	586.7	596.3	620.3	625.2
55°	8642.6	5681.1	962.2	741.3	682.8	616.5	579.1	556.0	563.7	585.8	589.6
57.5°	9554.0	6355.2	1122.6	739.4	659.7	602.1	557.0	522.4	528.2	541.6	545.4
60°	10502.7	7169.6	1371.3	745.2	649.2	584.8	527.2	484.0	482.1	493.6	495.5
62.5°	11641.6	8111.6	1655.5	749.0	655.9	562.7	487.8	445.6	439.8	442.7	444.6
65°	12815.1	8793.4	1549.0	733.7	677.0	544.5	453.3	408.1	397.6	395.6	396.6
67.5°	12851.6	8062.6	1086.1	702.9	685.6	534.9	427.3	376.4	359.1	352.4	351.5
70°	11525.4	6550.2	846.0	670.3	651.1	519.5	403.3	350.5	324.6	314.0	313.1
71°	10878.2	6029.7	801.8	654.0	625.2	504.2	392.8	339.0	312.1	300.6	298.7
72.5°	9863.2	5405.5	748.1	628.0	575.2	464.8	372.6	322.7	294.8	281.4	278.5
75°	7078.3	3534.8	642.4	559.9	476.3	370.7	326.5	290.0	266.0	249.7	247.8
77.5°	2727.2	1406.8	485.9	465.7	364.9	290.0	268.9	250.6	233.4	217.0	216.1
80°	843.1	629.0	354.3	350.5	264.1	216.1	209.3	204.5	197.8	180.5	176.7
82.5°	450.4	361.1	243.9	226.6	172.9	144.0	151.7	153.6	154.6	136.4	134.4
85°	215.1	191.1	137.3	128.7	100.8	80.7	93.1	100.8	101.8	83.5	77.8
87.5°	102.8	99.9	64.3	49.0	37.5	26.9	32.6	40.3	44.2	31.7	27.8
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)