

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: P319273

Luminaire Tested: **GAN-SA9A-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319273
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-SA9A-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 34132 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 290
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

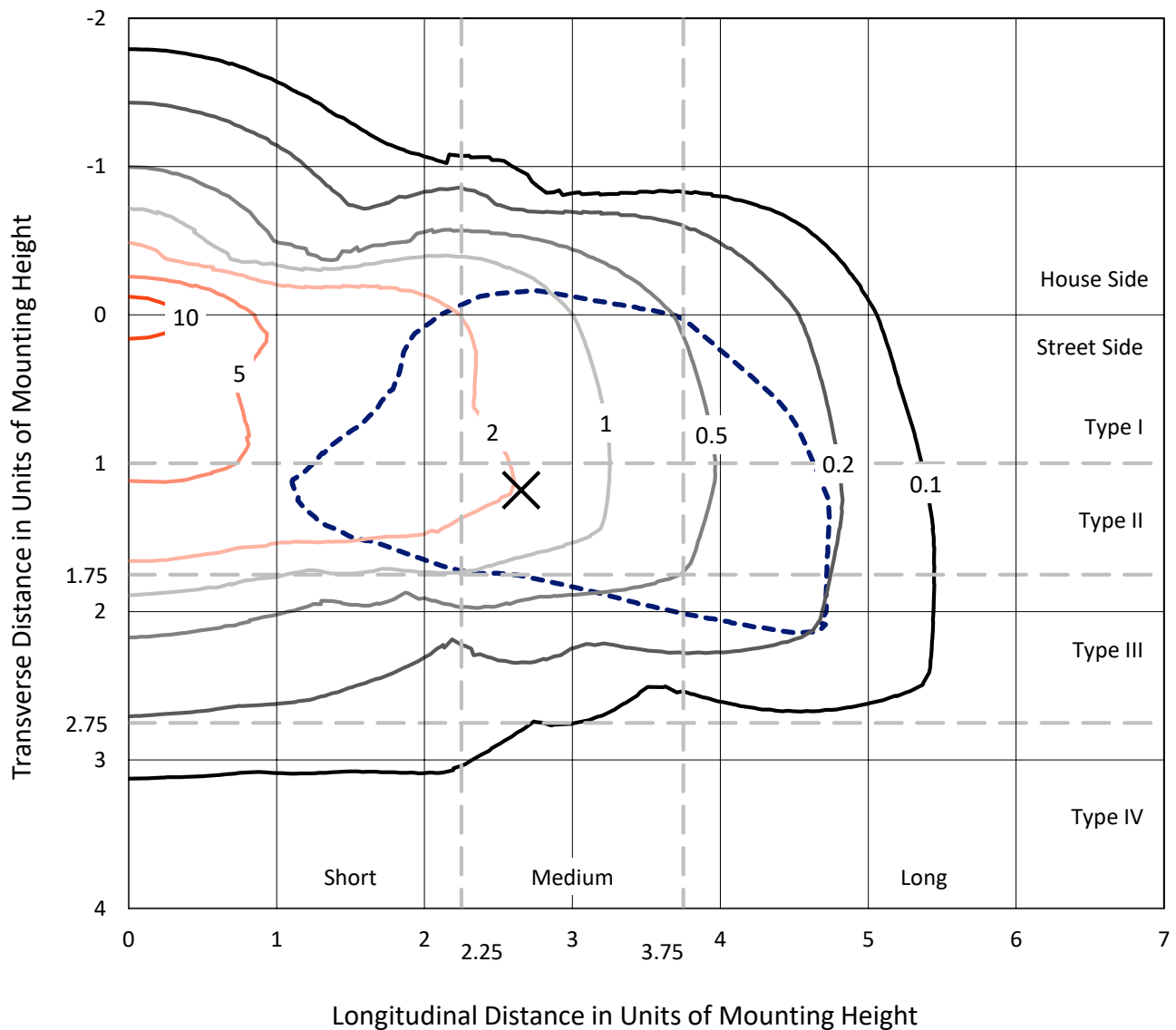


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Iso-Footcandle Lines of Horizontal Illumination

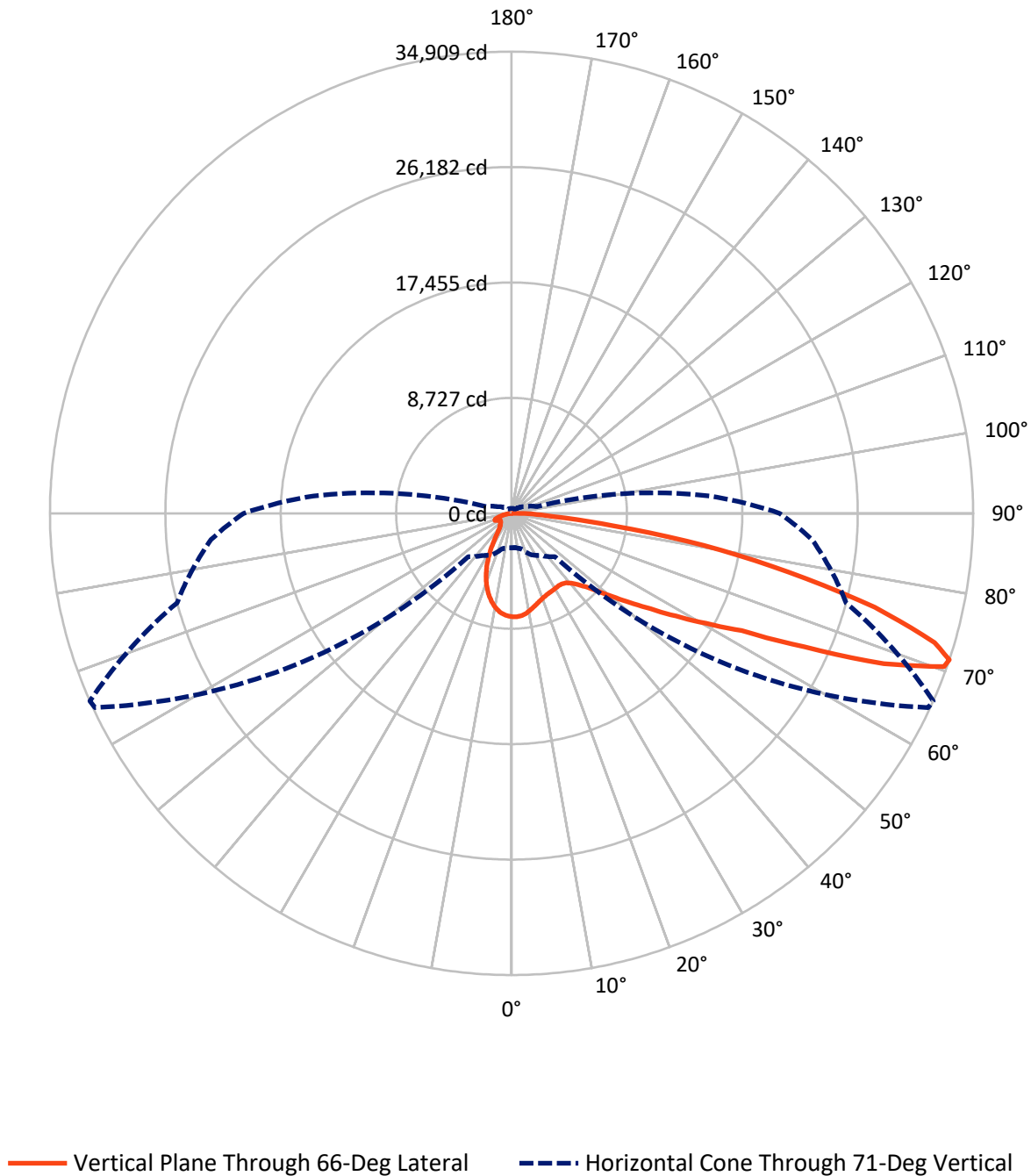
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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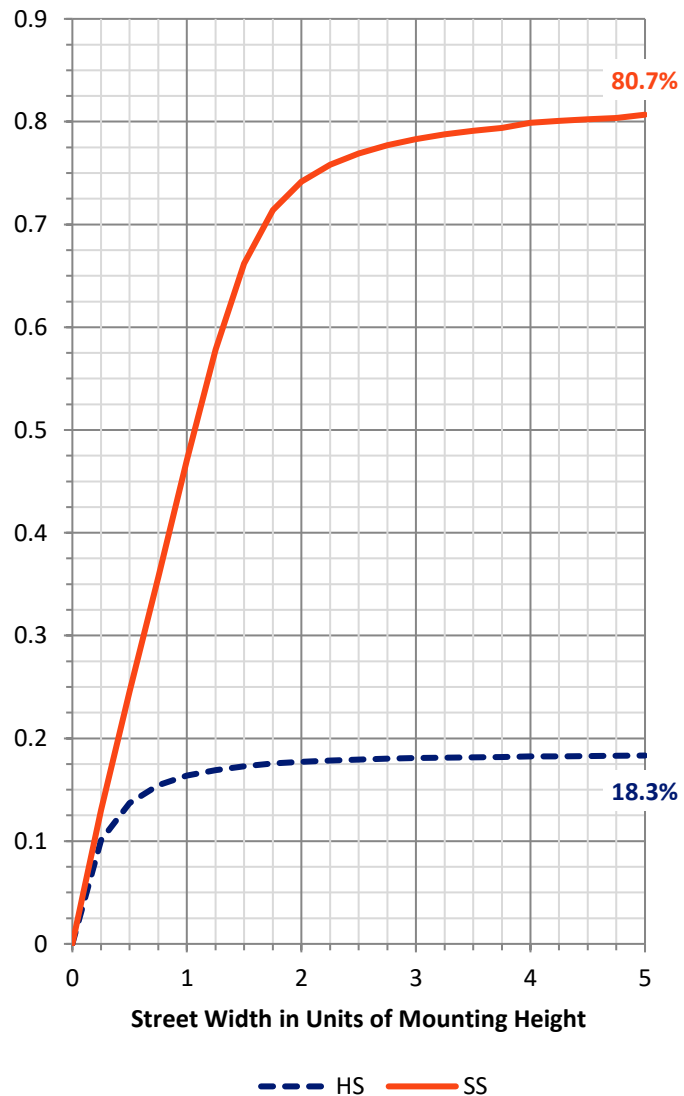
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6325.6	0.0	6325.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	27806.4	0.0	27806.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	34132.0	0.0	34132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.3	2.0
10°-20°	1650.7	4.8
20°-30°	2217.4	6.5
30°-40°	2916.9	8.5
40°-50°	4243.3	12.4
50°-60°	6628.5	19.4
60°-70°	8303.3	24.3
70°-80°	6333.6	18.6
80°-90°	1150.1	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°	34132.0	100.0
0°-180°	34132.0	100.0

Coefficient of Utilization



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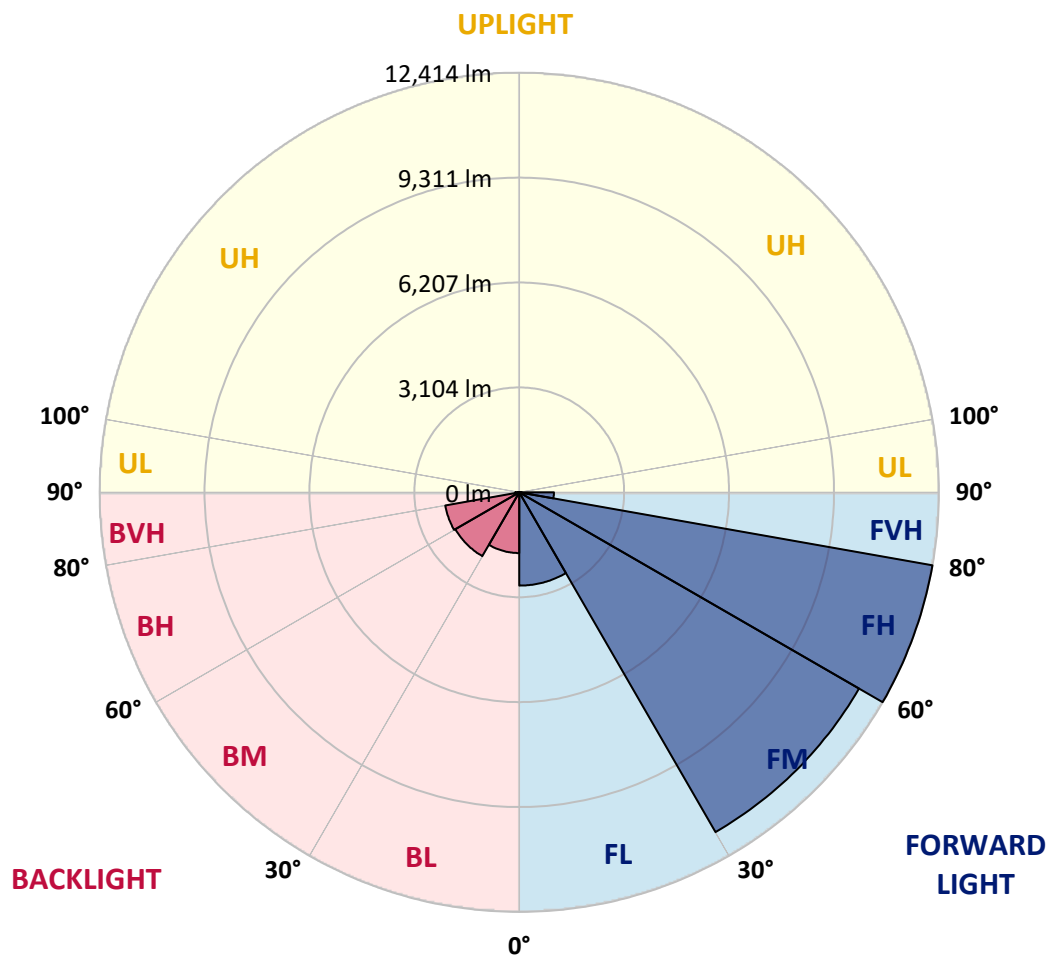
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2760.0	8.1			
FM	(30°-60°)	11606.6	34.0			
FH	(60°-80°)	12414.2	36.4			G5
FVH	(80°-90°)	1025.6	3.0			G5
BL	(0°-30°)	1796.3	5.3	B3/2500		
BM	(30°-60°)	2182.1	6.4	B2/2500		
BH	(60°-80°)	2222.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	124.5	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°	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0
2.5°	7674.0	7662.2	7697.6	7734.1	7748.3	7771.8	7807.2	7827.2	7826.1	7829.6	7817.8
5°	7164.9	7149.6	7220.3	7278.1	7388.8	7513.8	7665.8	7774.2	7776.6	7837.8	7854.3
7.5°	6683.0	6672.4	6753.7	6846.8	6975.2	7166.1	7412.4	7645.7	7659.9	7826.1	7883.8
10°	6296.4	6294.1	6373.0	6474.4	6624.0	6837.3	7120.2	7461.9	7483.1	7769.5	7888.5
12.5°	5994.7	5999.5	6067.8	6183.3	6341.2	6563.9	6870.3	7255.7	7289.9	7679.9	7861.4
15°	5772.0	5790.9	5846.3	5962.9	6118.5	6344.7	6659.4	7064.8	7116.6	7579.8	7846.1
17.5°	5644.7	5666.0	5704.9	5801.5	5947.6	6165.6	6463.8	6908.0	6955.2	7503.2	7847.3
20°	5607.0	5624.7	5647.1	5706.0	5829.8	6027.7	6309.4	6766.6	6817.3	7441.9	7859.0
22.5°	5681.3	5694.2	5696.6	5691.9	5767.3	5928.8	6197.4	6662.9	6717.1	7401.8	7867.3
25°	5840.4	5858.0	5845.1	5801.5	5776.7	5875.7	6139.7	6594.6	6648.8	7372.3	7850.8
27.5°	6079.6	6082.0	6071.3	6014.8	5898.1	5881.6	6122.0	6554.5	6606.4	7338.2	7816.6
30°	6404.8	6420.2	6401.3	6324.7	6133.8	5975.9	6143.2	6515.6	6562.8	7294.6	7761.2
32.5°	6785.5	6823.2	6822.0	6741.9	6468.5	6186.8	6230.4	6492.1	6528.6	7248.6	7694.1
35°	7180.3	7232.1	7328.7	7294.6	6956.4	6520.3	6397.8	6529.8	6554.5	7242.7	7646.9
37.5°	7590.4	7642.2	7841.4	7933.3	7537.3	6997.6	6661.7	6662.9	6674.7	7314.6	7643.4
40°	8019.3	8074.7	8374.0	8613.3	8290.4	7602.1	7087.2	6941.0	6928.1	7491.4	7712.9
42.5°	8620.3	8669.8	9029.2	9334.5	9125.9	8376.4	7675.2	7370.0	7342.9	7837.8	7935.6
45°	9380.4	9422.8	9804.7	10131.1	10023.9	9260.2	8414.1	7960.4	7955.7	8415.3	8387.0
47.5°	10284.3	10317.3	10660.2	10976.0	11014.9	10277.2	9342.7	8871.3	8794.7	9207.2	9085.8
50°	11225.9	11262.4	11495.7	11835.1	12123.8	11638.3	10537.7	9987.3	9884.8	10252.5	10075.7
52.5°	11849.3	11897.6	12100.3	12530.4	13370.6	13130.2	11950.6	11340.2	11184.6	11519.3	11383.8
55°	11571.1	11679.6	11989.5	12678.9	14367.6	15409.3	13693.5	12918.1	12742.5	13020.6	12940.5
57.5°	10306.7	10455.2	10878.2	11942.4	14507.8	17417.4	16328.5	14776.5	14652.8	14572.6	14609.2
60°	7995.7	8138.3	8662.7	10049.8	13530.9	18883.4	20294.0	17067.4	16888.3	16130.6	16163.5
62.5°	5658.9	5587.0	5946.4	6961.1	10994.9	19055.5	24806.3	20131.4	19542.1	17775.7	17630.7
65°	4315.5	4299.0	4460.4	4783.3	6659.4	16996.7	27494.3	25281.2	24360.8	19710.7	19368.9
67.5°	3545.9	3516.5	3675.6	4145.8	4288.4	10965.4	27553.2	31255.9	30352.0	22119.4	21379.3
70°	2915.5	2882.5	3031.0	3637.9	3963.1	5561.1	23189.4	34754.7	34706.4	25169.2	22897.2
71°	2613.8	2590.2	2768.2	3442.2	3893.6	4634.8	20021.8	34764.1	34909.1	26201.5	22807.6
72.5°	2128.3	2136.5	2325.1	3064.0	3841.7	4092.7	14715.2	33143.8	33450.2	27185.5	21993.3
75°	1414.1	1421.2	1668.7	2356.9	3725.1	4004.4	8087.7	27811.3	28374.6	26596.3	20068.9
77.5°	949.8	947.5	1116.0	1616.8	3245.4	4004.4	4742.1	20800.7	21419.4	21162.5	15471.8
80°	654.0	649.3	768.3	1116.0	2457.1	4052.7	3666.1	14577.4	14764.7	11428.6	6288.2
82.5°	400.7	404.2	502.0	788.4	1672.2	3647.3	3461.1	7948.6	7744.7	3205.4	1570.9
85°	229.8	228.6	320.5	533.8	1073.6	3078.1	3375.1	3421.0	3138.2	965.1	568.0
87.5°	82.5	88.4	172.1	295.8	615.1	2143.6	2863.6	1779.5	1603.9	436.0	256.9
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°	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0	7819.0
2.5°	7809.6	7816.6	7808.4	7761.2	7721.2	7656.4	7619.8	7569.2	7553.8	7546.8	7565.6
5°	7839.0	7841.4	7771.8	7648.1	7509.0	7345.2	7227.4	7082.5	7014.1	6984.6	7003.5
7.5°	7866.1	7855.5	7703.5	7466.6	7209.7	6924.5	6671.2	6439.0	6303.5	6248.1	6252.8
10°	7869.7	7824.9	7580.9	7214.4	6816.1	6397.8	6008.9	5650.6	5424.4	5277.1	5321.9
12.5°	7833.1	7757.7	7400.6	6888.0	6335.3	5765.0	5239.4	4702.0	4379.1	4229.4	4234.2
15°	7804.8	7668.1	7179.1	6503.8	5761.4	5006.0	4288.4	3656.7	3312.6	3159.4	3087.5
17.5°	7781.3	7571.5	6922.2	6071.3	5083.8	4125.7	3263.1	2699.8	2511.3	2466.5	2447.6
20°	7748.3	7469.0	6635.8	5570.5	4311.9	3140.6	2382.8	2104.7	2105.9	2157.7	2164.8
22.5°	7702.3	7352.3	6330.6	5008.4	3483.5	2287.4	1867.8	1787.7	1869.0	1968.0	1985.7
25°	7634.0	7214.4	5991.2	4387.3	2656.2	1758.2	1595.6	1592.1	1691.1	1794.8	1810.1
27.5°	7537.3	7034.1	5614.1	3720.3	1957.4	1494.3	1429.5	1454.2	1527.3	1602.7	1608.6
30°	7407.7	6824.4	5198.1	3016.8	1534.3	1330.5	1323.4	1345.8	1390.6	1443.6	1448.3
32.5°	7265.1	6611.1	4753.8	2335.7	1314.0	1242.1	1249.2	1259.8	1281.0	1302.2	1306.9
35°	7135.5	6393.1	4299.0	1774.7	1209.1	1184.3	1179.6	1177.3	1179.6	1172.6	1173.7
37.5°	7051.8	6212.8	3825.2	1413.0	1149.0	1133.7	1119.5	1101.8	1081.8	1070.0	1072.4
40°	7021.2	6078.4	3345.6	1220.9	1099.5	1088.9	1061.8	1024.1	1000.5	993.4	993.4
42.5°	7103.7	6008.9	2882.5	1124.2	1058.2	1040.6	995.8	952.2	934.5	933.3	932.1
45°	7355.9	6037.2	2441.7	1071.2	1020.5	986.4	927.4	890.9	879.1	881.5	880.3
47.5°	7808.4	6215.1	2064.6	1035.9	982.8	938.0	872.0	842.6	828.4	828.4	829.6
50°	8577.9	6631.1	1764.1	1006.4	951.0	893.3	832.0	795.5	776.6	775.4	775.4
52.5°	9698.6	7375.9	1576.8	981.6	915.7	853.2	791.9	746.0	723.6	718.9	716.5
55°	11103.3	8443.6	1524.9	965.1	868.5	809.6	743.6	697.6	672.9	662.3	661.1
57.5°	12674.2	9742.2	1627.4	945.1	820.2	757.7	690.6	647.0	621.0	608.1	606.9
60°	14263.9	11159.9	2045.8	916.8	780.1	701.2	636.4	596.3	570.4	556.2	553.9
62.5°	15856.0	12654.1	2900.2	914.5	751.8	647.0	581.0	546.8	522.1	506.7	503.2
65°	17651.9	14289.8	3871.2	976.9	742.4	597.5	524.4	497.3	476.1	462.0	460.8
67.5°	19714.2	16136.4	3778.1	1105.4	774.2	552.7	471.4	450.2	434.8	423.1	421.9
70°	20681.7	15847.7	2348.6	1196.1	819.0	509.1	420.7	405.4	393.6	385.4	381.8
71°	20276.3	15047.6	1969.2	1185.5	814.3	490.2	400.7	388.9	377.1	370.0	366.5
72.5°	19170.9	13723.0	1642.8	1103.0	761.3	456.1	374.7	363.0	352.4	344.1	341.7
75°	17202.9	12255.8	1315.1	881.5	606.9	385.4	328.8	315.8	307.6	302.9	298.1
77.5°	12645.9	8746.4	1017.0	696.5	446.6	314.6	280.5	271.0	262.8	255.7	252.2
80°	4844.6	3388.0	684.7	519.7	327.6	248.7	226.3	221.5	213.3	208.6	208.6
82.5°	1304.5	1012.3	365.3	314.6	219.2	181.5	173.2	170.9	163.8	154.4	155.6
85°	527.9	446.6	205.0	173.2	134.3	107.2	116.7	117.8	109.6	97.8	99.0
87.5°	232.2	189.7	114.3	76.6	58.9	41.2	53.0	53.0	48.3	40.1	36.5
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)