

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: P319921

Luminaire Tested: **GAN-SA7B-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319921
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-SA7B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 32120 lumens
Efficiency: N/A
Efficacy: 108.9 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): 295
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

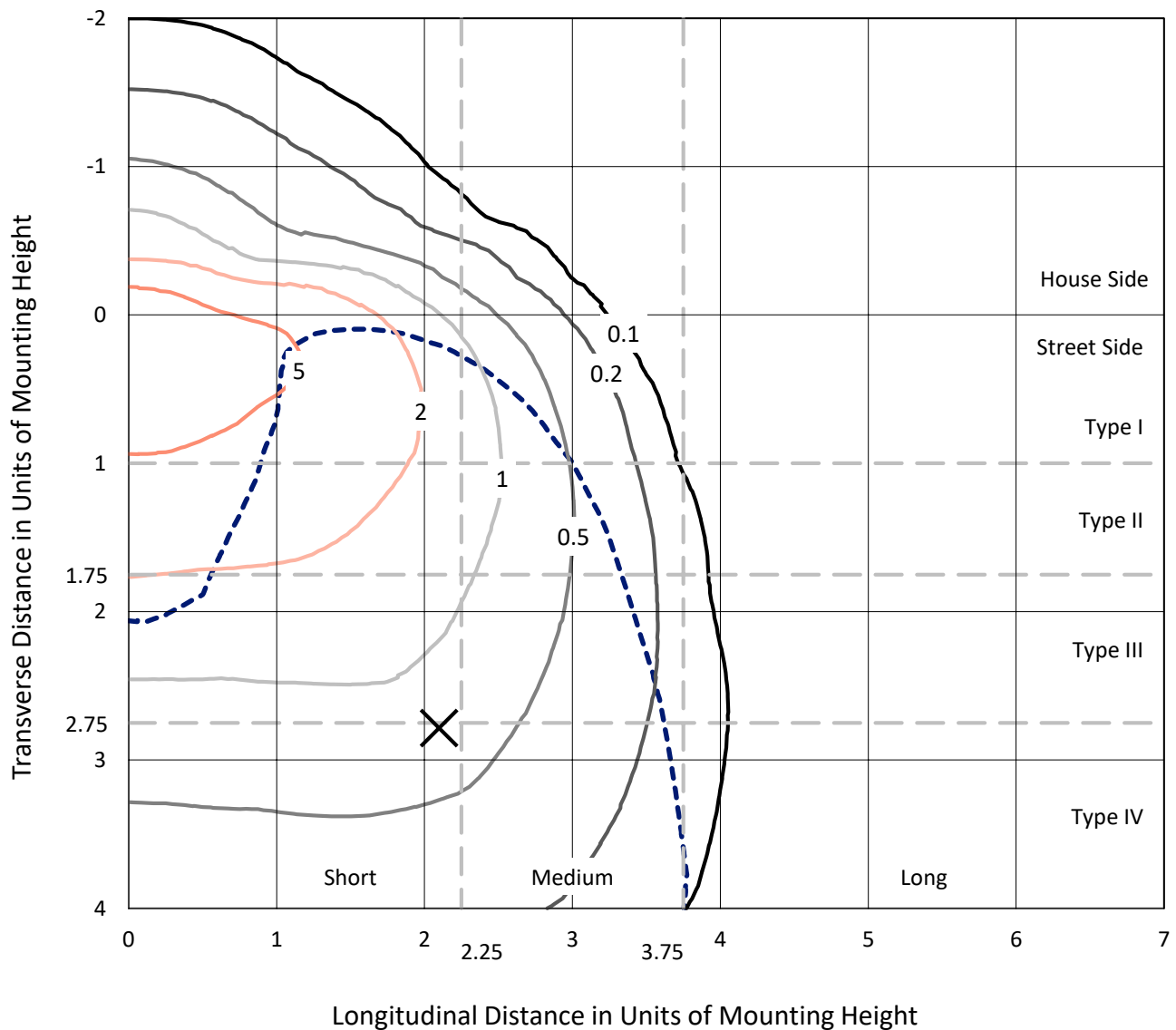


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Iso-Footcandle Lines of Horizontal Illumination

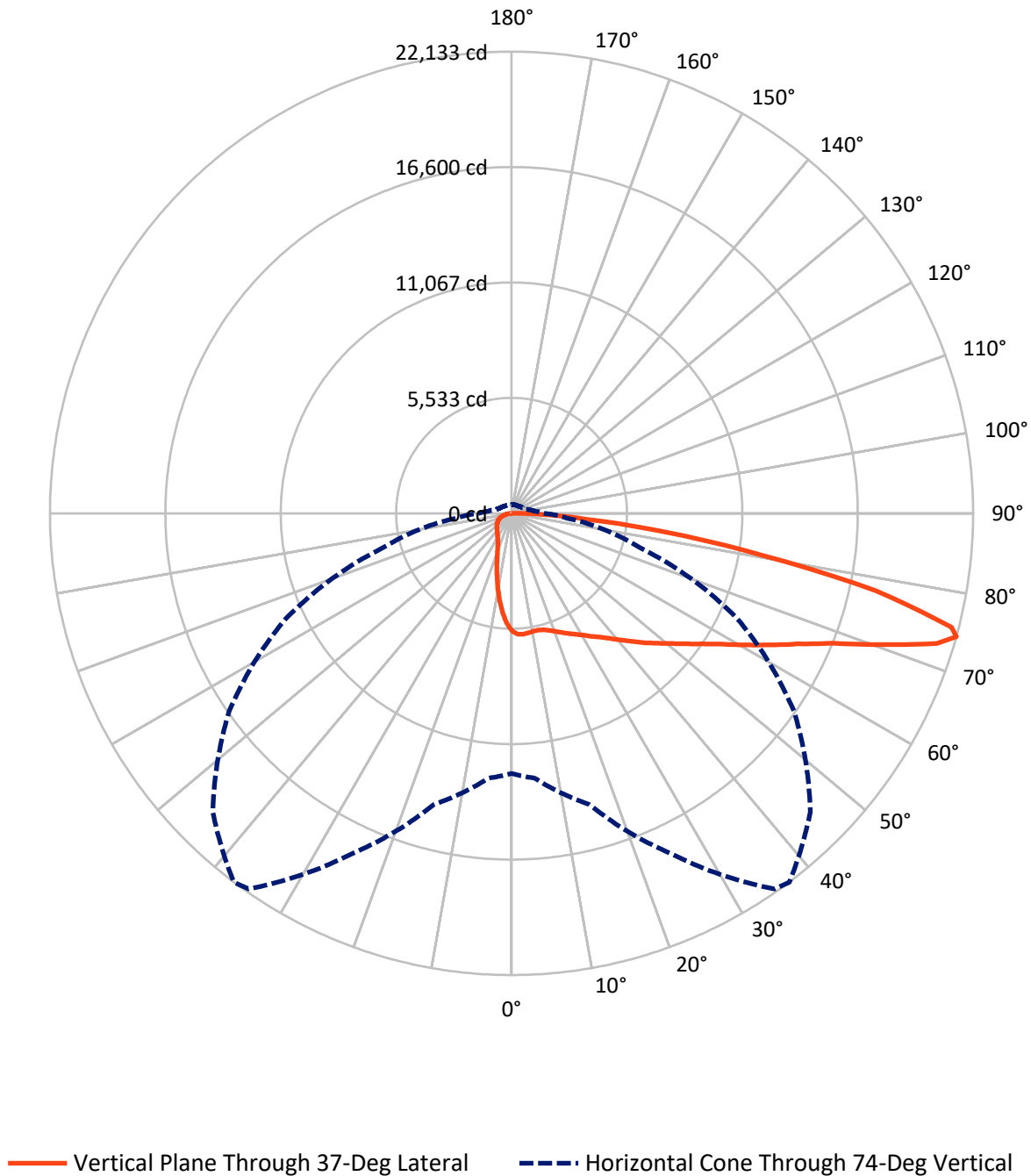
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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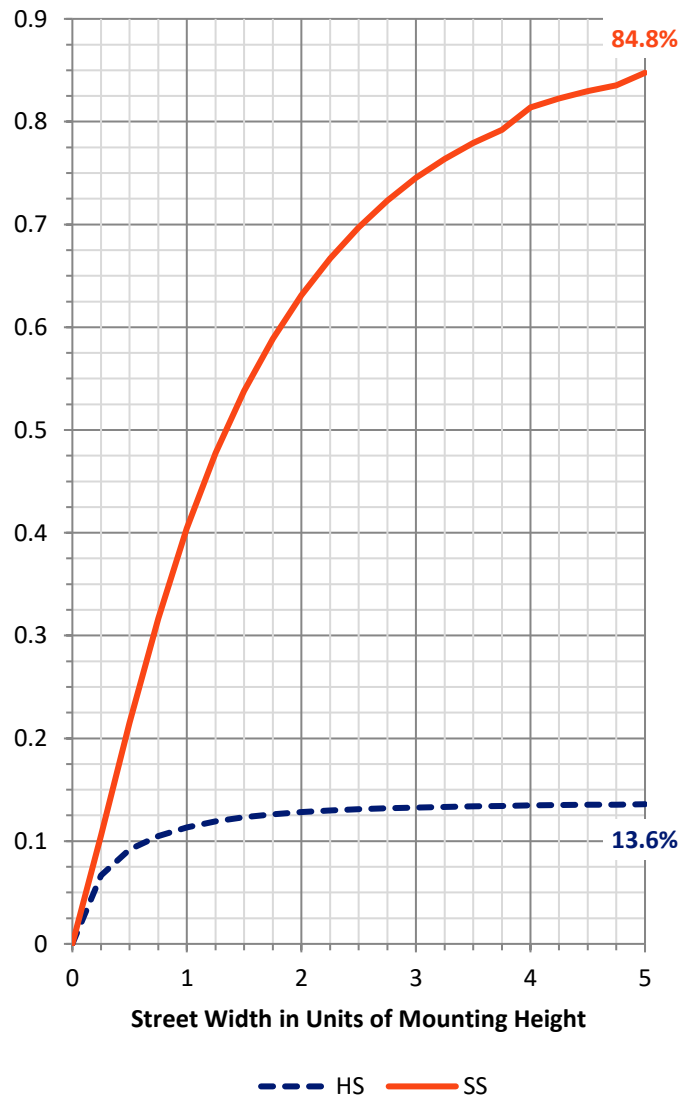
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4419.5	0.0	4419.5
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	27700.5	0.0	27700.5
	% Fixture	86.2	0.0	86.2
Total	Lumens	32120.0	0.0	32120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.4	1.6
10°-20°	1277.5	4.0
20°-30°	1968.3	6.1
30°-40°	2862.2	8.9
40°-50°	4212.7	13.1
50°-60°	5916.0	18.4
60°-70°	7487.9	23.3
70°-80°	6593.3	20.5
80°-90°	1303.6	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°	32120.0	100.0
0°-180°	32120.0	100.0

Coefficient of Utilization



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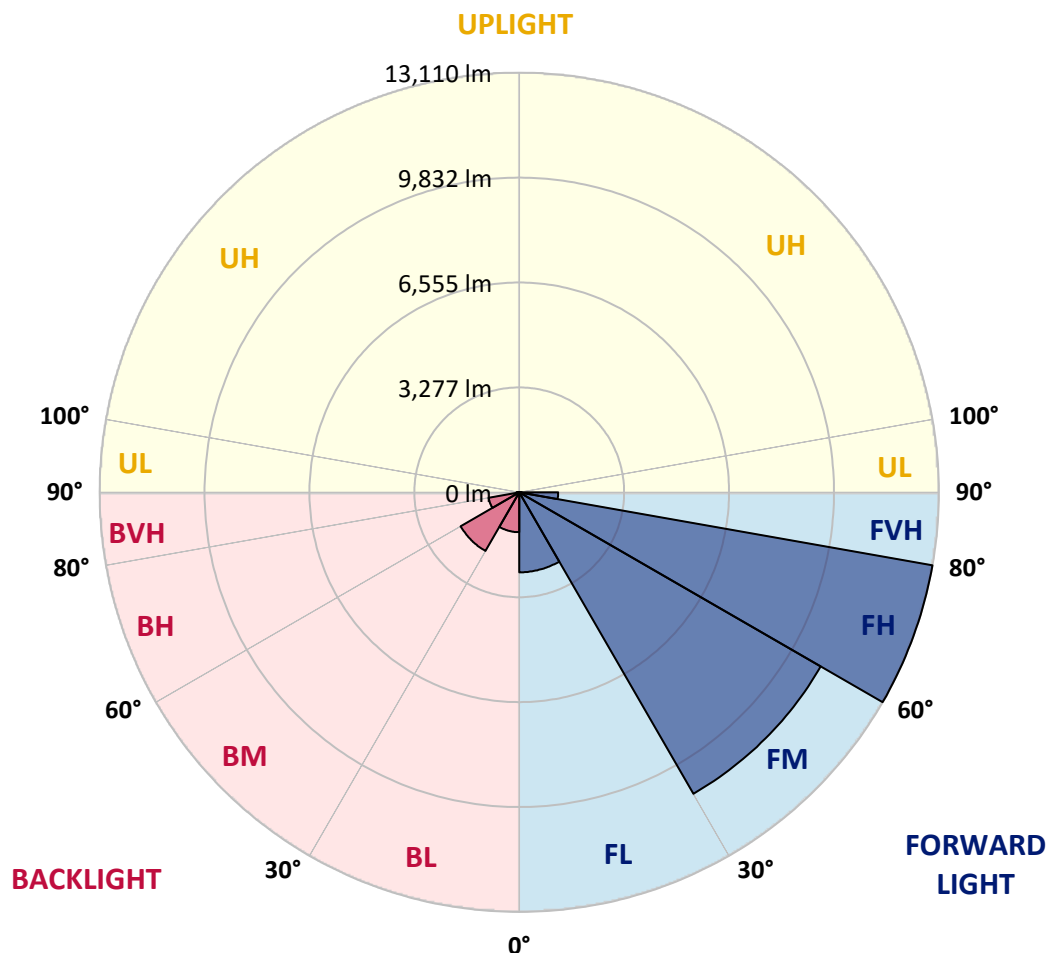
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2499.3	7.8			
FM	(30°-60°)	10876.1	33.9			
FH	(60°-80°)	13109.7	40.8			G5
FVH	(80°-90°)	1215.4	3.8			G5
BL	(0°-30°)	1244.9	3.9	B3/2500		
BM	(30°-60°)	2114.9	6.6	B2/2500		
BH	(60°-80°)	971.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	88.3	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°	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4
2.5°	5852.9	5854.0	5852.9	5843.8	5822.3	5804.2	5789.5	5768.0	5720.5	5684.3	5630.0
5°	5908.3	5901.5	5897.0	5880.0	5846.1	5825.7	5797.5	5756.7	5678.7	5606.2	5518.0
7.5°	5882.3	5874.4	5864.2	5843.8	5805.4	5788.4	5748.8	5695.6	5601.7	5506.7	5380.0
10°	5802.0	5799.7	5795.2	5790.7	5757.9	5744.3	5708.1	5651.5	5558.7	5443.3	5295.1
12.5°	5712.6	5718.3	5736.4	5760.1	5745.4	5738.6	5716.0	5677.5	5582.5	5458.0	5279.3
15°	5656.0	5671.9	5720.5	5782.7	5795.2	5792.9	5787.3	5762.4	5661.7	5523.6	5315.5
17.5°	5636.8	5662.8	5755.6	5858.6	5894.8	5902.7	5904.9	5861.9	5749.9	5604.0	5352.8
20°	5671.9	5704.7	5840.4	5981.9	6039.6	6044.1	6033.9	5959.2	5833.7	5673.0	5373.2
22.5°	5778.2	5807.6	5977.4	6136.9	6202.5	6209.3	6178.7	6065.6	5921.9	5754.5	5401.5
25°	5983.0	6019.2	6188.9	6348.5	6382.4	6383.5	6339.4	6199.1	6037.3	5868.7	5462.6
27.5°	6250.0	6286.2	6439.0	6595.1	6577.0	6566.8	6506.9	6366.6	6187.8	6026.0	5571.2
30°	6547.6	6587.2	6732.0	6842.9	6799.9	6779.5	6730.9	6549.9	6397.1	6241.0	5737.5
32.5°	6855.3	6891.5	7018.3	7094.1	7039.8	7030.7	6957.2	6792.0	6669.8	6569.1	6006.8
35°	7171.0	7197.0	7321.5	7364.5	7292.1	7289.8	7269.4	7117.8	7040.9	7088.4	6398.2
37.5°	7493.5	7500.3	7606.6	7608.9	7587.4	7596.4	7617.9	7522.9	7544.4	7692.6	6907.4
40°	7780.9	7799.0	7875.9	7899.7	7937.0	7968.7	8076.2	8013.9	8180.2	8442.7	7541.0
42.5°	7993.6	8028.6	8152.0	8213.1	8334.1	8383.9	8535.5	8593.2	8928.1	9321.9	8294.5
45°	8173.5	8227.8	8425.8	8551.4	8756.1	8843.3	9060.5	9254.0	9773.3	10275.7	9087.7
47.5°	8368.1	8437.1	8684.9	8924.7	9203.1	9301.5	9696.4	9986.0	10675.1	11235.1	9835.5
50°	8654.3	8707.5	8949.6	9326.4	9673.7	9800.5	10346.9	10762.2	11591.5	12149.3	10483.8
52.5°	9053.7	9033.3	9238.1	9766.5	10232.7	10388.8	11041.6	11588.1	12520.4	12976.4	11031.5
55°	9455.4	9421.4	9565.1	10227.0	10884.4	11048.4	11806.5	12417.5	13404.1	13720.9	11451.2
57.5°	9902.3	9837.8	9958.9	10746.3	11626.6	11822.3	12663.0	13298.8	14273.0	14322.8	11718.2
60°	10362.8	10275.7	10411.4	11390.1	12569.1	12799.9	13665.4	14158.7	15092.2	14804.8	11804.2
62.5°	10765.6	10704.5	10913.8	12108.6	13631.5	13884.9	14649.8	15072.9	15900.0	15005.0	11494.2
65°	11117.4	11127.6	11489.7	12916.4	14816.1	15086.5	15778.9	16199.8	16535.9	14886.2	10769.0
67.5°	11537.2	11594.9	12212.7	13980.0	16307.3	16603.8	17421.8	17428.6	16891.1	14189.3	9341.1
70°	12149.3	12268.1	13207.2	15455.4	18427.6	18834.9	19466.3	18150.4	16392.2	12299.8	7349.8
72.5°	12692.4	12914.2	14265.1	17143.4	21011.8	21320.7	20662.2	17734.1	14306.9	9217.8	4578.9
74°	12471.8	12746.7	14457.4	17975.0	21984.8	22133.1	20258.3	16518.9	11928.7	6383.5	2661.1
75°	11996.6	12295.3	14176.8	17967.1	21861.5	21778.9	19283.0	15130.6	9824.2	4353.7	1770.7
77.5°	9681.7	9997.3	11945.7	15398.8	17925.3	17847.2	14812.7	10150.1	4302.8	1427.9	899.5
80°	5628.9	5869.9	7415.4	9779.0	12087.1	12228.5	9741.6	5022.4	1692.6	802.2	609.8
82.5°	2500.5	2666.8	3582.1	4991.9	7294.3	7476.5	5101.6	2631.7	1045.4	487.6	366.6
85°	1640.6	1763.9	2174.6	2377.1	3473.5	3598.0	2497.1	2049.0	690.2	268.1	269.3
87.5°	1180.1	1298.9	1615.7	1410.9	1594.2	1509.3	1358.8	1896.3	277.2	152.7	90.5
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°	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4	5659.4
2.5°	5606.2	5588.1	5547.4	5470.5	5427.5	5391.3	5331.3	5296.2	5280.4	5279.3	5286.0
5°	5467.1	5425.2	5320.0	5191.0	5088.0	4994.1	4877.6	4807.5	4757.7	4728.3	4736.2
7.5°	5305.3	5239.7	5074.5	4868.5	4703.4	4521.2	4341.3	4233.8	4150.1	4087.9	4099.2
10°	5194.4	5103.9	4862.9	4566.5	4291.5	4026.8	3779.0	3630.8	3513.1	3422.6	3429.4
12.5°	5157.1	5034.9	4701.1	4305.1	3919.3	3557.2	3233.6	3006.2	2885.1	2782.2	2790.1
15°	5162.7	4998.7	4565.3	4069.8	3584.4	3128.4	2735.8	2469.9	2305.9	2234.6	2235.7
17.5°	5167.2	4956.8	4422.8	3817.4	3252.9	2727.9	2301.3	2032.1	1877.0	1811.4	1812.6
20°	5152.5	4888.9	4246.3	3527.8	2906.6	2360.2	1947.2	1718.6	1601.0	1550.1	1550.1
22.5°	5133.3	4808.6	4047.1	3237.0	2565.0	2041.1	1693.8	1519.5	1451.6	1417.7	1416.6
25°	5142.4	4748.6	3843.5	2938.3	2250.4	1786.5	1525.2	1409.8	1364.5	1343.0	1341.9
27.5°	5191.0	4720.3	3655.7	2640.8	1975.5	1595.3	1412.0	1330.6	1301.1	1287.6	1287.6
30°	5279.3	4720.3	3459.9	2387.3	1746.9	1453.9	1324.9	1269.5	1249.1	1240.0	1240.0
32.5°	5433.1	4746.4	3271.0	2136.1	1564.8	1343.0	1252.5	1215.2	1199.3	1194.8	1194.8
35°	5697.9	4834.6	3086.5	1898.5	1417.7	1252.5	1183.5	1162.0	1150.7	1149.5	1152.9
37.5°	6070.1	5014.5	2913.4	1723.2	1313.6	1179.0	1125.8	1108.8	1102.0	1107.7	1112.2
40°	6538.5	5258.9	2756.2	1564.8	1234.4	1120.1	1072.6	1061.3	1057.9	1065.8	1072.6
42.5°	7104.3	5589.3	2627.2	1450.5	1173.3	1070.3	1027.3	1013.8	1010.4	1019.4	1028.5
45°	7716.4	5944.5	2536.7	1365.6	1125.8	1033.0	987.7	973.0	966.2	970.8	981.0
47.5°	8273.0	6280.6	2500.5	1305.7	1080.5	1001.3	952.7	934.6	923.2	921.0	928.9
50°	8742.6	6530.6	2517.4	1269.5	1044.3	966.2	918.7	898.4	881.4	871.2	876.9
52.5°	9084.3	6687.9	2533.3	1253.6	1016.0	927.8	881.4	862.2	839.5	822.6	822.6
55°	9332.0	6724.1	2498.2	1241.2	994.5	885.9	839.5	821.4	798.8	779.6	777.3
57.5°	9429.3	6622.3	2368.1	1223.1	979.8	846.3	795.4	781.8	762.6	740.0	738.8
60°	9298.1	6307.7	2116.9	1184.6	960.6	813.5	751.3	742.2	733.2	711.7	710.5
62.5°	8770.9	5617.6	1792.2	1106.5	922.1	778.4	710.5	715.1	716.2	701.5	699.2
65°	7814.8	4669.4	1475.4	1004.7	864.4	736.6	668.7	690.2	702.6	700.4	697.0
67.5°	6425.4	3634.2	1250.2	897.2	788.6	678.9	623.4	648.3	658.5	666.4	664.2
70°	4769.0	2562.7	1034.1	784.1	697.0	611.0	564.6	577.0	570.2	579.3	582.7
72.5°	2658.9	1537.6	842.9	670.9	601.9	531.8	499.0	496.7	482.0	482.0	482.0
74°	1595.3	1128.0	741.1	600.8	544.2	479.7	451.4	441.3	427.7	428.8	427.7
75°	1283.0	969.6	680.0	554.4	503.5	449.2	420.9	407.3	397.1	397.1	396.0
77.5°	810.1	736.6	547.6	441.3	402.8	370.0	350.7	332.6	332.6	331.5	330.4
80°	612.1	586.1	426.5	333.8	308.9	284.0	271.5	263.6	263.6	267.0	265.9
82.5°	419.8	441.3	299.8	233.1	220.6	202.5	200.3	201.4	198.0	193.5	192.3
85°	306.6	331.5	202.5	147.1	134.6	123.3	132.4	136.9	131.2	121.1	116.5
87.5°	117.7	217.2	108.6	61.1	56.6	48.7	56.6	58.8	63.4	49.8	50.9
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)