

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: P320081

Luminaire Tested: **GAN-SA7B-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320081
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-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 38408 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

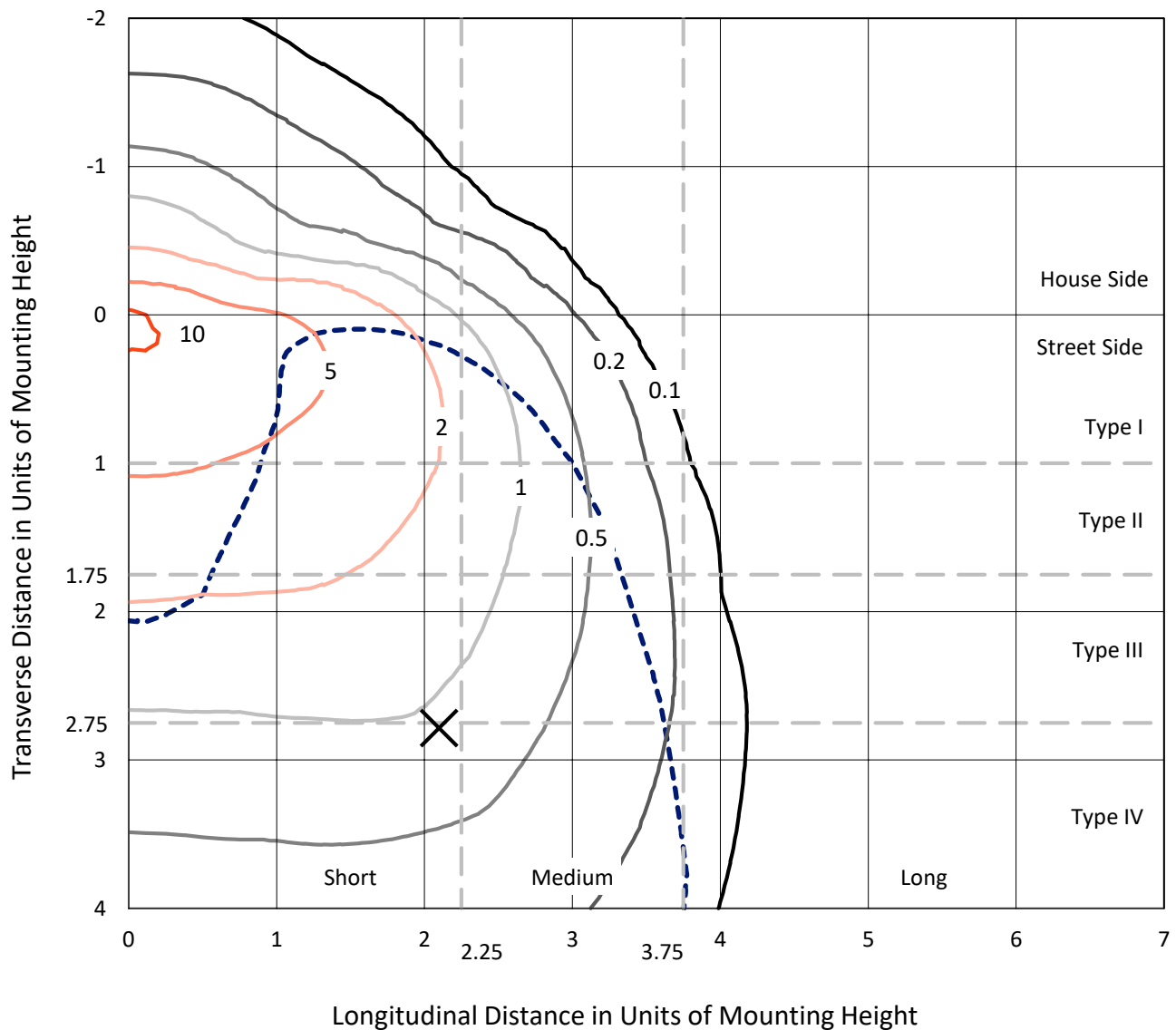
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

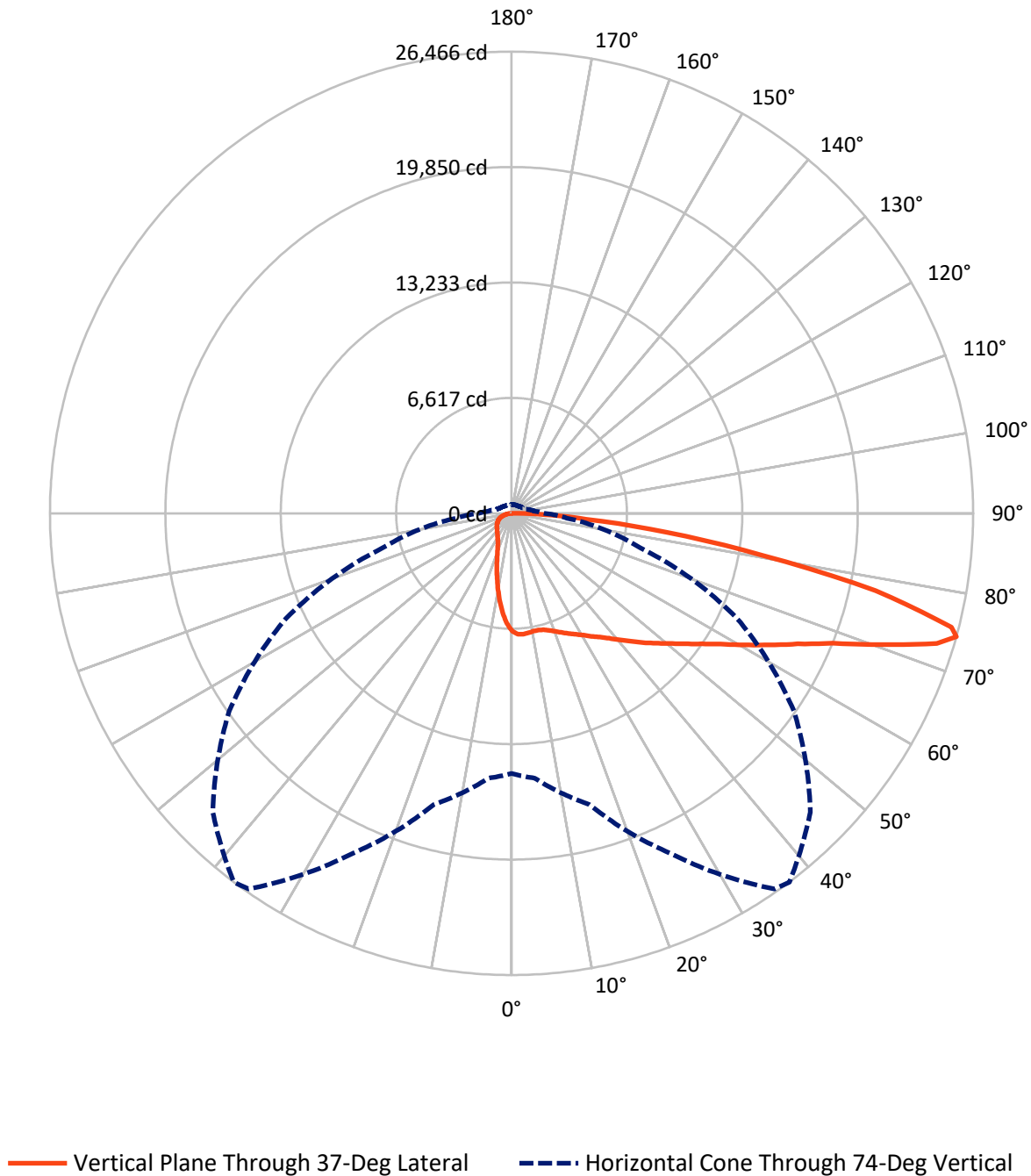
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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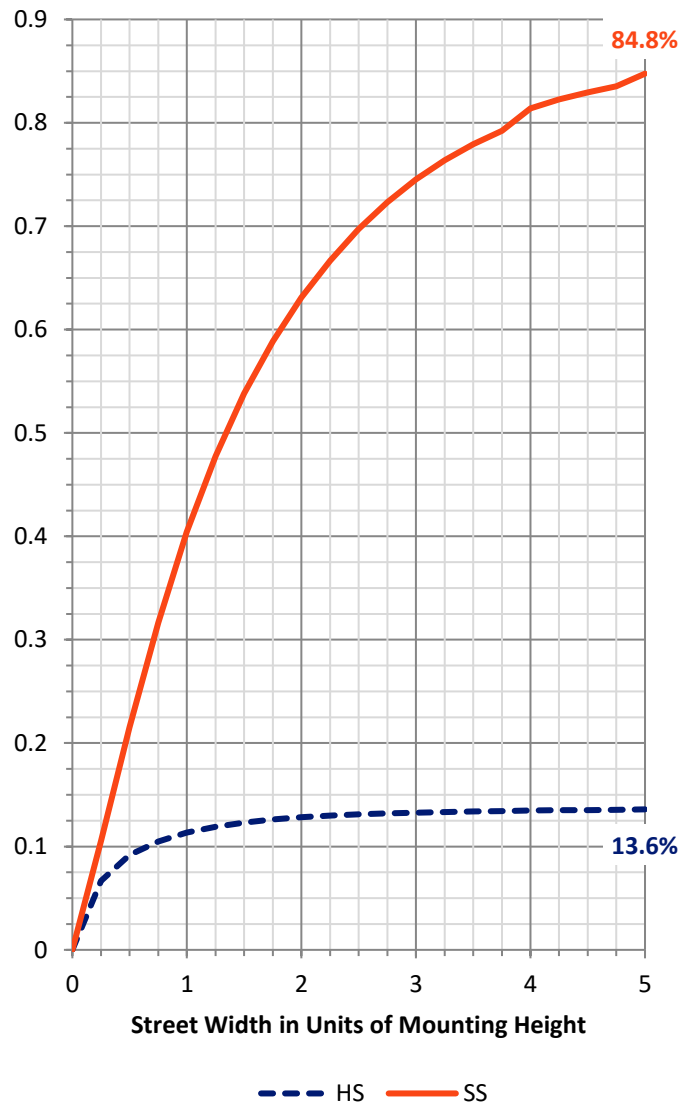
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5284.7	0.0	5284.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	33123.3	0.0	33123.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	38408.0	0.0	38408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.9	1.6
10°-20°	1527.6	4.0
20°-30°	2353.7	6.1
30°-40°	3422.6	8.9
40°-50°	5037.4	13.1
50°-60°	7074.2	18.4
60°-70°	8953.7	23.3
70°-80°	7884.1	20.5
80°-90°	1558.9	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°	38408.0	100.0
0°-180°	38408.0	100.0

Coefficient of Utilization



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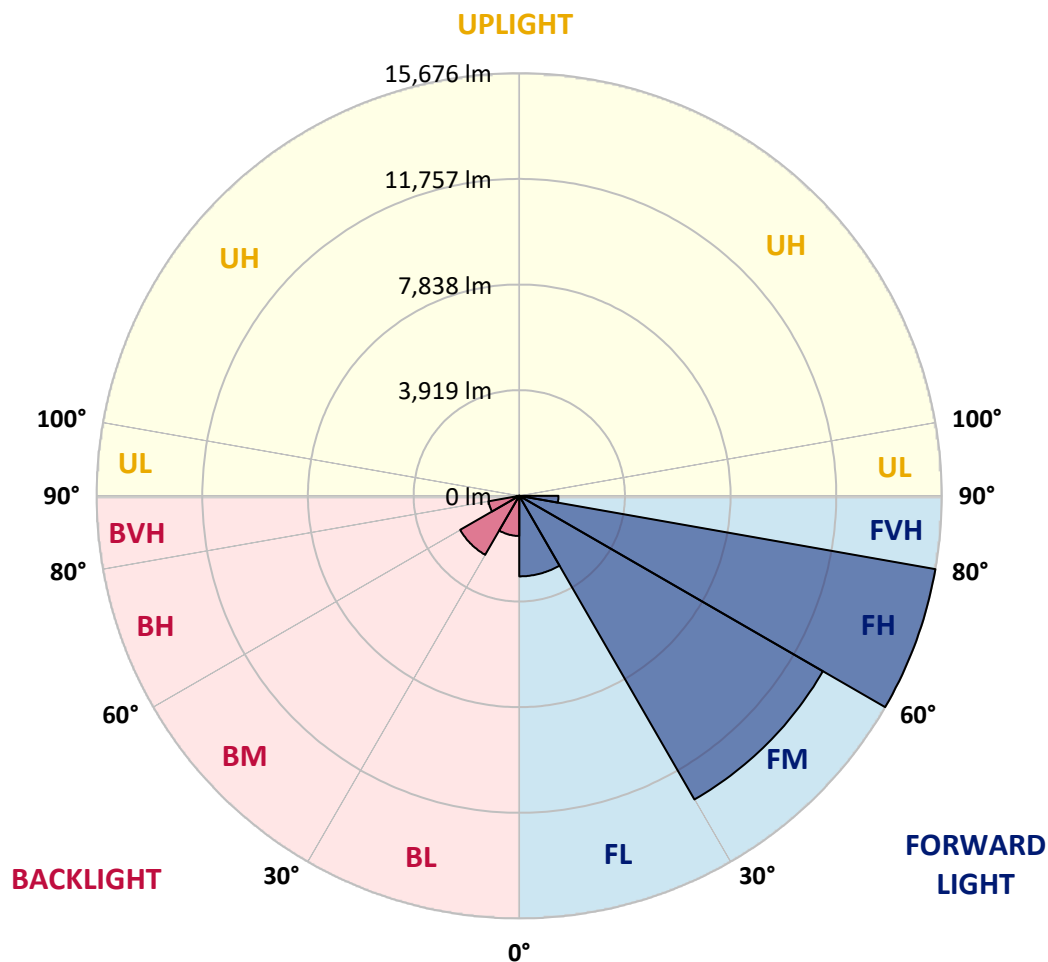
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2988.6	7.8			
FM	(30°-60°)	13005.3	33.9			
FH	(60°-80°)	15676.2	40.8			G5
FVH	(80°-90°)	1453.3	3.8			G5
BL	(0°-30°)	1488.6	3.9	B3/2500		
BM	(30°-60°)	2528.9	6.6	B3/5000		
BH	(60°-80°)	1161.6	3.0	B3/2500		G3/2500
BVH	(80°-90°)	105.6	0.3			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3
2.5°	6998.7	7000.0	6998.7	6987.9	6962.2	6940.5	6922.9	6897.2	6840.4	6797.1	6732.2
5°	7065.0	7056.9	7051.5	7031.2	6990.6	6966.2	6932.4	6883.7	6790.3	6703.8	6598.2
7.5°	7033.9	7024.4	7012.2	6987.9	6941.9	6921.6	6874.2	6810.6	6698.3	6584.7	6433.2
10°	6937.8	6935.1	6929.7	6924.3	6885.0	6868.8	6825.5	6757.9	6646.9	6508.9	6331.7
12.5°	6830.9	6837.7	6859.3	6887.8	6870.2	6862.0	6835.0	6789.0	6675.3	6526.5	6312.8
15°	6763.3	6782.2	6840.4	6914.8	6929.7	6927.0	6920.2	6890.5	6770.0	6605.0	6356.1
17.5°	6740.3	6771.4	6882.3	7005.5	7048.7	7058.2	7060.9	7009.5	6875.6	6701.0	6400.7
20°	6782.2	6821.5	6983.8	7152.9	7221.9	7227.3	7215.2	7125.9	6975.7	6783.6	6425.1
22.5°	6909.4	6944.6	7147.5	7338.3	7416.7	7424.9	7388.3	7253.0	7081.2	6881.0	6458.9
25°	7154.3	7197.6	7400.5	7591.3	7631.9	7633.2	7580.4	7412.7	7219.2	7017.6	6531.9
27.5°	7473.6	7516.9	7699.5	7886.2	7864.6	7852.4	7780.7	7612.9	7399.2	7205.7	6661.8
30°	7829.4	7876.7	8049.9	8182.5	8131.1	8106.7	8048.6	7832.1	7649.4	7462.7	6860.7
32.5°	8197.4	8240.7	8392.2	8482.9	8417.9	8407.1	8319.1	8121.6	7975.5	7855.1	7182.7
35°	8574.9	8606.0	8754.8	8806.2	8719.6	8716.9	8692.6	8511.3	8419.3	8476.1	7650.8
37.5°	8960.4	8968.6	9095.7	9098.4	9072.7	9083.6	9109.3	8995.6	9021.3	9198.6	8259.6
40°	9304.1	9325.7	9417.7	9446.1	9490.8	9528.7	9657.2	9582.8	9781.7	10095.5	9017.3
42.5°	9558.4	9600.4	9747.8	9820.9	9965.7	10025.2	10206.5	10275.5	10675.9	11146.8	9918.3
45°	9773.5	9838.5	10075.2	10225.4	10470.3	10574.5	10834.2	11065.6	11686.6	12287.3	10866.7
47.5°	10006.2	10088.8	10385.1	10671.9	11004.7	11122.4	11594.6	11940.9	12764.9	13434.6	11761.0
50°	10348.5	10412.1	10701.7	11152.2	11567.5	11719.1	12372.5	12869.0	13860.7	14527.7	12536.2
52.5°	10826.1	10801.8	11046.6	11678.5	12235.9	12422.6	13203.2	13856.7	14971.5	15516.7	13191.0
55°	11306.4	11265.8	11437.6	12229.1	13015.2	13211.3	14117.8	14848.4	16028.1	16406.9	13693.0
57.5°	11840.8	11763.7	11908.5	12850.1	13902.7	14136.7	15142.0	15902.3	17067.2	17126.7	14012.3
60°	12391.5	12287.3	12449.6	13619.9	15029.7	15305.7	16340.7	16930.5	18046.7	17703.0	14115.1
62.5°	12873.1	12800.0	13050.3	14479.0	16300.1	16603.1	17517.7	18023.7	19012.7	17942.5	13744.4
65°	13293.9	13306.0	13739.0	15445.0	17716.6	18039.9	18867.9	19371.2	19773.0	17800.5	12877.2
67.5°	13795.8	13864.8	14603.5	16716.8	19499.7	19854.2	20832.4	20840.5	20197.8	16967.1	11169.8
70°	14527.7	14669.8	15792.7	18481.0	22035.1	22522.2	23277.1	21703.7	19601.2	14707.7	8788.6
72.5°	15177.1	15442.3	17057.7	20499.5	25125.2	25494.6	24707.2	21205.8	17107.8	11022.3	5475.3
74°	14913.3	15242.1	17287.7	21494.0	26288.7	26466.0	24224.2	19752.7	14263.9	7633.2	3182.1
75°	14345.1	14702.3	16952.2	21484.5	26141.3	26042.5	23057.9	18092.7	11747.5	5206.1	2117.3
77.5°	11577.0	11954.5	14284.2	18413.3	21434.4	21341.1	17712.5	12137.1	5145.2	1707.4	1075.6
80°	6730.8	7019.0	8867.1	11693.3	14453.3	14622.4	11648.7	6005.6	2024.0	959.2	729.2
82.5°	2990.0	3188.8	4283.4	5969.1	8722.3	8940.1	6100.3	3146.9	1250.1	583.1	438.3
85°	1961.7	2109.2	2600.3	2842.5	4153.5	4302.3	2985.9	2450.2	825.3	320.6	322.0
87.5°	1411.1	1553.2	1932.0	1687.1	1906.3	1804.8	1624.9	2267.5	331.5	182.6	108.2
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°	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3	6767.3
2.5°	6703.8	6682.1	6633.4	6541.4	6490.0	6446.7	6375.0	6333.1	6314.1	6312.8	6320.9
5°	6537.3	6487.3	6361.5	6207.2	6084.1	5971.8	5832.5	5748.6	5689.1	5653.9	5663.4
7.5°	6343.9	6265.4	6067.9	5821.6	5624.1	5406.3	5191.2	5062.7	4962.5	4888.1	4901.7
10°	6211.3	6103.1	5814.9	5460.4	5131.7	4815.1	4518.8	4341.5	4200.8	4092.6	4100.7
12.5°	6166.6	6020.5	5621.4	5147.9	4686.5	4253.6	3866.7	3594.7	3450.0	3326.8	3336.3
15°	6173.4	5977.2	5459.1	4866.5	4286.1	3740.8	3271.4	2953.4	2757.3	2672.0	2673.4
17.5°	6178.8	5927.2	5288.6	4564.8	3889.7	3261.9	2751.9	2429.9	2244.5	2166.0	2167.4
20°	6161.2	5846.0	5077.5	4218.4	3475.7	2822.2	2328.4	2055.1	1914.4	1853.5	1853.5
22.5°	6138.2	5749.9	4839.4	3870.7	3067.1	2440.7	2025.3	1817.0	1735.8	1695.2	1693.9
25°	6149.1	5678.2	4595.9	3513.6	2691.0	2136.3	1823.7	1685.7	1631.6	1605.9	1604.6
27.5°	6207.2	5644.4	4371.3	3157.7	2362.2	1907.6	1688.5	1591.0	1555.9	1539.6	1539.6
30°	6312.8	5644.4	4137.3	2854.7	2088.9	1738.5	1584.3	1518.0	1493.6	1482.8	1482.8
32.5°	6496.8	5675.5	3911.3	2554.3	1871.1	1605.9	1497.7	1453.0	1434.1	1428.7	1428.7
35°	6813.3	5781.1	3690.8	2270.2	1695.2	1497.7	1415.2	1389.5	1375.9	1374.6	1378.6
37.5°	7258.5	5996.2	3483.8	2060.5	1570.7	1409.7	1346.2	1325.9	1317.8	1324.5	1329.9
40°	7818.6	6288.4	3295.7	1871.1	1476.0	1339.4	1282.6	1269.0	1265.0	1274.5	1282.6
42.5°	8495.0	6683.5	3141.5	1734.5	1403.0	1279.9	1228.5	1212.2	1208.2	1219.0	1229.8
45°	9227.0	7108.3	3033.3	1633.0	1346.2	1235.2	1181.1	1163.5	1155.4	1160.8	1173.0
47.5°	9892.6	7510.1	2990.0	1561.3	1292.0	1197.3	1139.2	1117.5	1104.0	1101.3	1110.8
50°	10454.1	7809.1	3010.3	1518.0	1248.8	1155.4	1098.6	1074.2	1053.9	1041.8	1048.5
52.5°	10862.7	7997.2	3029.2	1499.0	1214.9	1109.4	1053.9	1030.9	1003.9	983.6	983.6
55°	11158.9	8040.4	2987.3	1484.2	1189.2	1059.3	1003.9	982.2	955.2	932.2	929.5
57.5°	11275.3	7918.7	2831.7	1462.5	1171.6	1012.0	951.1	934.9	911.9	884.8	883.5
60°	11118.4	7542.6	2531.3	1416.5	1148.6	972.8	898.3	887.5	876.7	851.0	849.6
62.5°	10487.9	6717.3	2143.0	1323.2	1102.6	930.8	849.6	855.0	856.4	838.8	836.1
65°	9344.7	5583.5	1764.2	1201.4	1033.6	880.8	799.6	825.3	840.2	837.5	833.4
67.5°	7683.3	4345.6	1495.0	1072.9	943.0	811.8	745.5	775.2	787.4	796.9	794.2
70°	5702.6	3064.4	1236.6	937.6	833.4	730.6	675.1	690.0	681.9	692.7	696.8
72.5°	3179.4	1838.6	1007.9	802.3	719.8	635.9	596.6	593.9	576.3	576.3	576.3
74°	1907.6	1348.9	886.2	718.4	650.8	573.6	539.8	527.6	511.4	512.8	511.4
75°	1534.2	1159.5	813.1	662.9	602.1	537.1	503.3	487.1	474.9	474.9	473.5
77.5°	968.7	880.8	654.8	527.6	481.6	442.4	419.4	397.8	397.8	396.4	395.1
80°	731.9	700.8	510.1	399.1	369.3	339.6	324.7	315.2	315.2	319.3	317.9
82.5°	501.9	527.6	358.5	278.7	263.8	242.2	239.5	240.8	236.8	231.4	230.0
85°	366.6	396.4	242.2	175.9	161.0	147.5	158.3	163.7	156.9	144.8	139.4
87.5°	140.7	259.8	129.9	73.1	67.6	58.2	67.6	70.4	75.8	59.5	60.9
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)