

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: P320082

Luminaire Tested: **GAN-SA8B-760-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320082
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-SA8B-760-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 43519 lumens
Efficiency: N/A
Efficacy: 130.3 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): 334
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

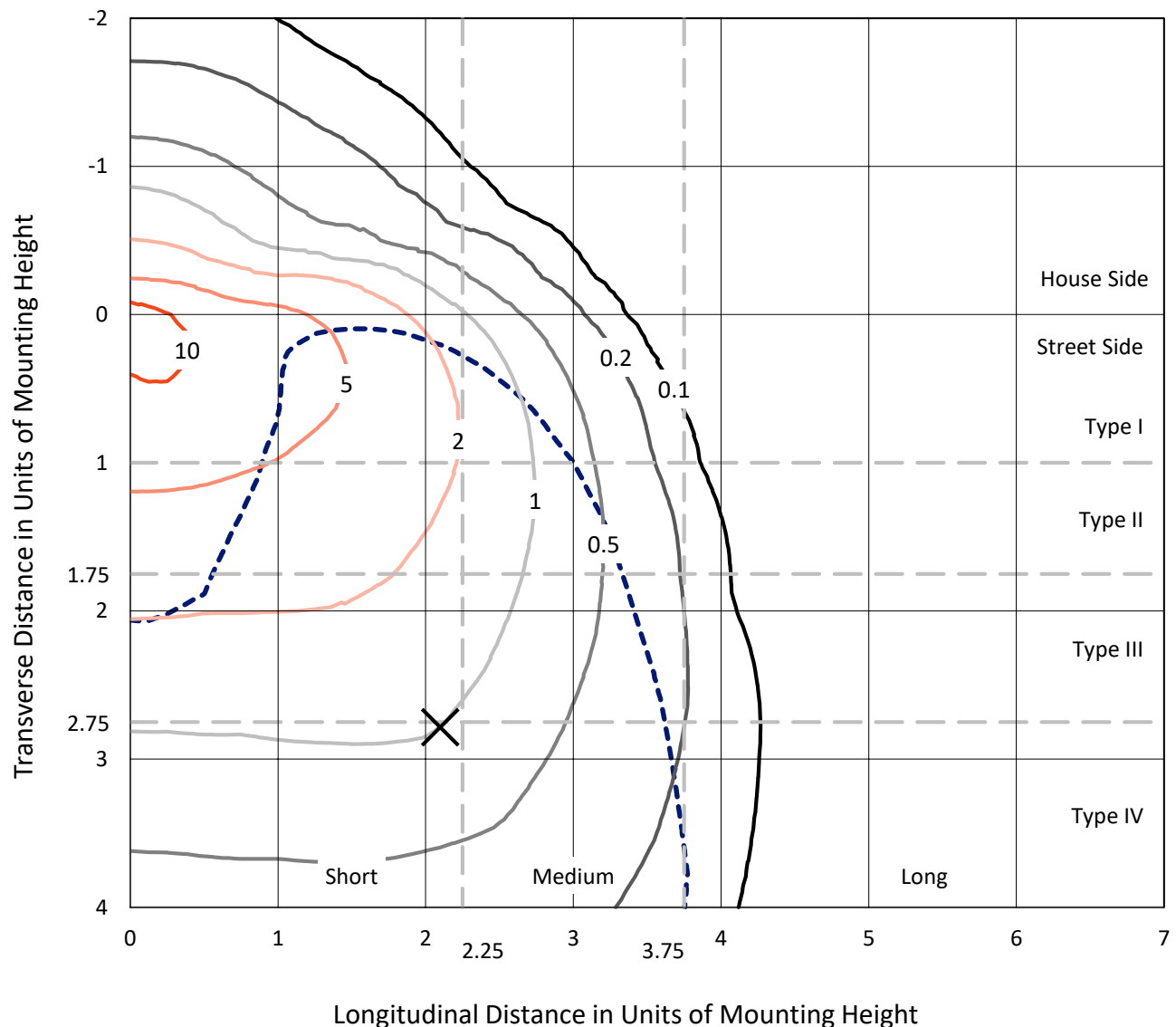


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Iso-Footcandle Lines of Horizontal Illumination

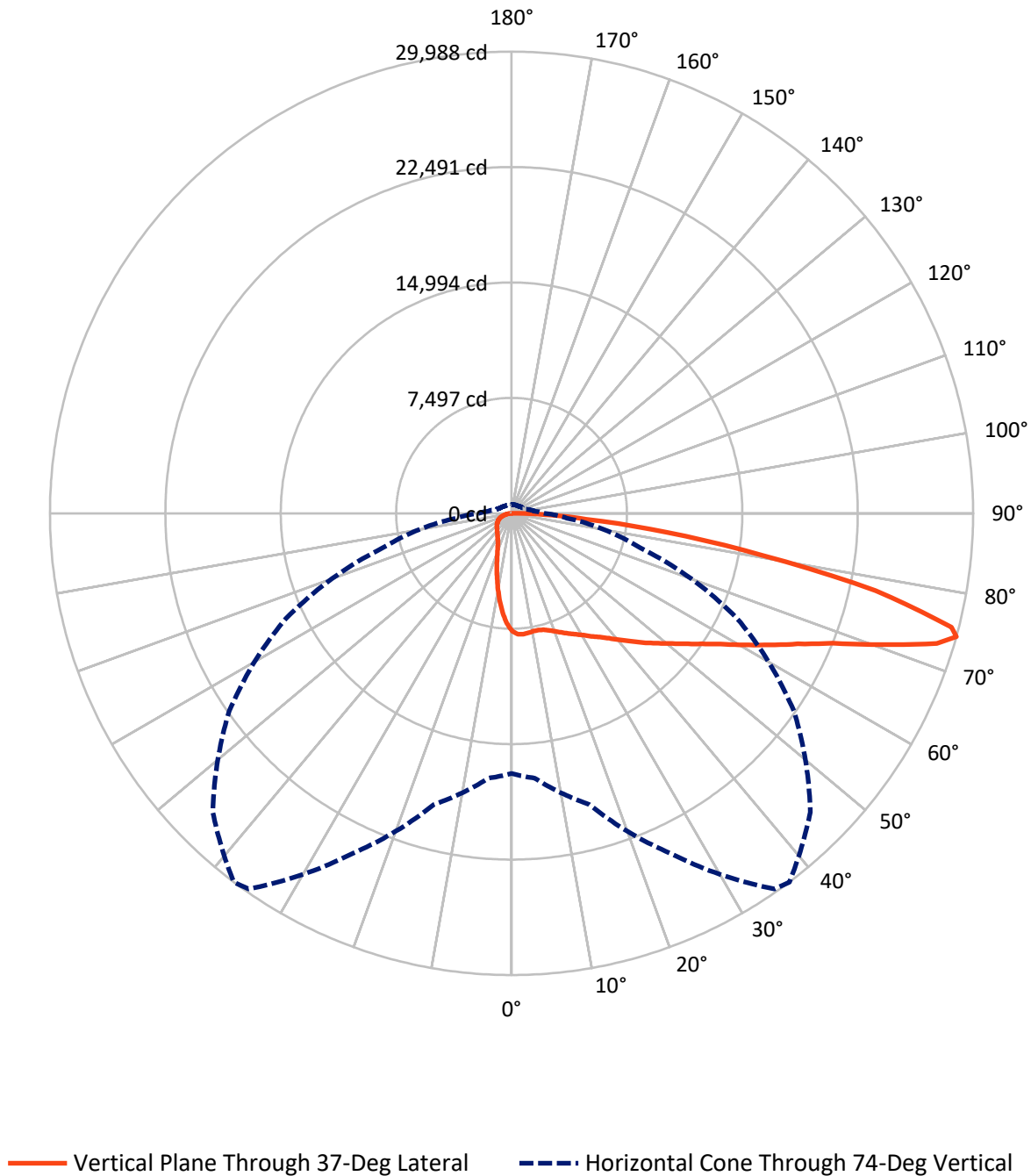
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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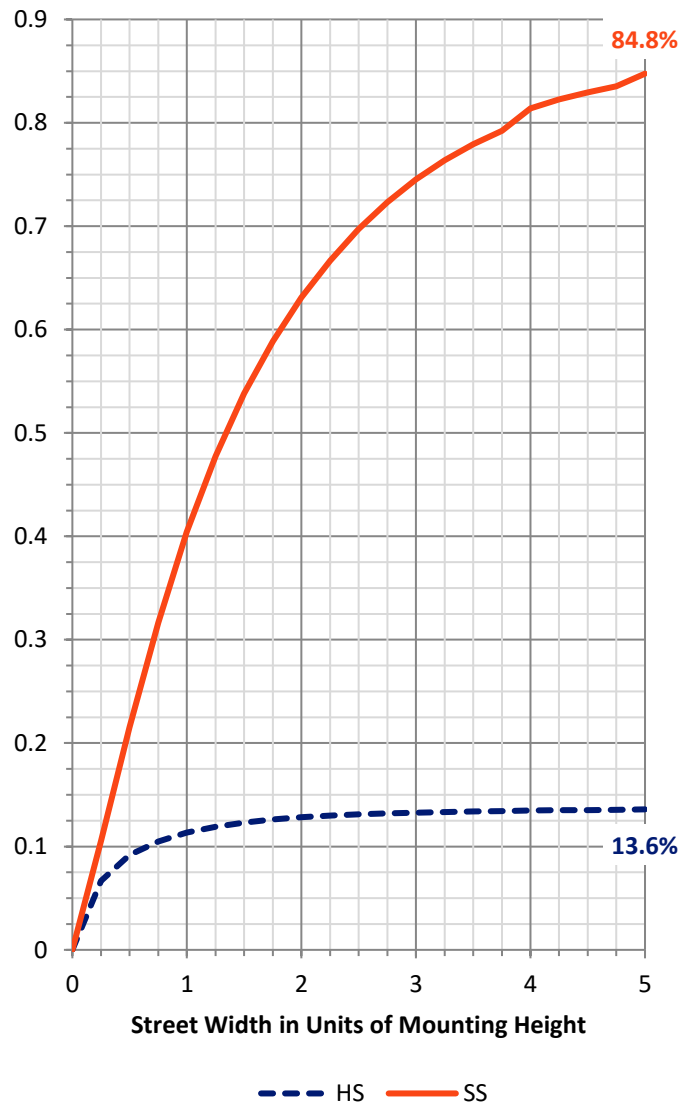
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5987.9	0.0	5987.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	37531.1	0.0	37531.1
	% Fixture	86.2	0.0	86.2
Total	Lumens	43519.0	0.0	43519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	675.2	1.6
10°-20°	1730.8	4.0
20°-30°	2666.9	6.1
30°-40°	3878.0	8.9
40°-50°	5707.8	13.1
50°-60°	8015.5	18.4
60°-70°	10145.2	23.3
70°-80°	8933.2	20.5
80°-90°	1766.3	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°	43519.0	100.0
0°-180°	43519.0	100.0

Coefficient of Utilization



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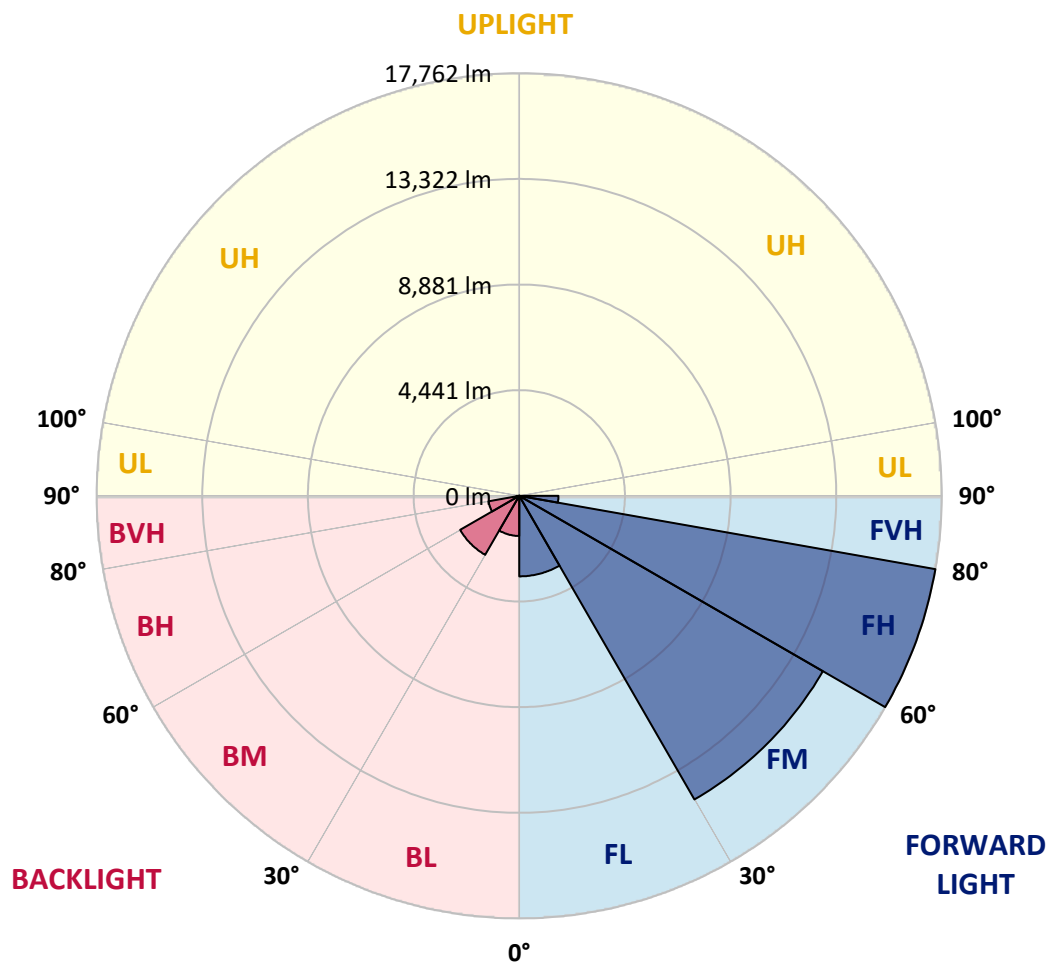
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3386.3	7.8			
FM	(30°-60°)	14735.9	33.9			
FH	(60°-80°)	17762.2	40.8			G5
FVH	(80°-90°)	1646.7	3.8			G5
BL	(0°-30°)	1686.6	3.9	B3/2500		
BM	(30°-60°)	2865.4	6.6	B3/5000		
BH	(60°-80°)	1316.2	3.0	B3/2500		G3/2500
BVH	(80°-90°)	119.6	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°	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9
2.5°	7930.0	7931.5	7930.0	7917.8	7888.6	7864.1	7844.2	7815.0	7750.7	7701.6	7628.0
5°	8005.1	7995.9	7989.8	7966.8	7920.8	7893.2	7854.9	7799.7	7693.9	7595.8	7476.3
7.5°	7969.9	7959.1	7945.3	7917.8	7865.6	7842.6	7789.0	7716.9	7589.7	7460.9	7289.2
10°	7861.0	7858.0	7851.8	7845.7	7801.2	7782.9	7733.8	7657.1	7531.4	7375.1	7174.3
12.5°	7739.9	7747.6	7772.1	7804.3	7784.4	7775.2	7744.5	7692.4	7563.6	7395.0	7152.8
15°	7663.3	7684.7	7750.7	7835.0	7851.8	7848.8	7841.1	7807.4	7670.9	7483.9	7201.9
17.5°	7637.2	7672.5	7798.2	7937.7	7986.7	7997.5	8000.5	7942.3	7790.5	7592.8	7252.4
20°	7684.7	7729.2	7913.2	8104.8	8183.0	8189.1	8175.3	8074.1	7904.0	7686.3	7280.0
22.5°	7828.8	7868.7	8098.6	8314.8	8403.7	8412.9	8371.5	8218.2	8023.5	7796.6	7318.4
25°	8106.3	8155.4	8385.3	8601.5	8647.4	8649.0	8589.2	8399.1	8179.9	7951.5	7401.1
27.5°	8468.1	8517.1	8724.1	8935.6	8911.1	8897.3	8816.1	8626.0	8383.8	8164.6	7548.3
30°	8871.3	8924.9	9121.1	9271.4	9213.1	9185.5	9119.6	8874.3	8667.4	8455.8	7773.7
32.5°	9288.2	9337.3	9509.0	9611.7	9538.1	9525.8	9426.2	9202.4	9036.8	8900.4	8138.5
35°	9715.9	9751.2	9919.8	9978.1	9879.9	9876.9	9849.3	9643.9	9539.6	9604.0	8668.9
37.5°	10152.8	10162.0	10306.1	10309.2	10280.0	10292.3	10321.4	10192.7	10221.8	10422.6	9358.7
40°	10542.2	10566.7	10671.0	10703.1	10753.7	10796.7	10942.3	10858.0	11083.3	11439.0	10217.2
42.5°	10830.4	10877.9	11045.0	11127.8	11291.8	11359.3	11564.7	11642.9	12096.6	12630.1	11238.1
45°	11074.1	11147.7	11416.0	11586.1	11863.6	11981.6	12276.0	12538.1	13241.7	13922.4	12312.8
47.5°	11337.8	11431.3	11767.0	12092.0	12469.1	12602.5	13137.5	13529.9	14463.5	15222.3	13326.0
50°	11725.6	11797.7	12125.7	12636.2	13106.8	13278.5	14018.9	14581.5	15705.2	16461.0	14204.4
52.5°	12266.8	12239.2	12516.6	13232.5	13864.1	14075.7	14960.2	15700.6	16963.8	17581.5	14946.4
55°	12811.0	12765.0	12959.7	13856.4	14747.1	14969.4	15996.5	16824.3	18161.0	18590.2	15515.1
57.5°	13416.5	13329.1	13493.1	14560.1	15752.7	16017.9	17156.9	18018.4	19338.3	19405.8	15876.9
60°	14040.4	13922.4	14106.3	15432.3	17029.7	17342.4	18515.1	19183.5	20448.2	20058.8	15993.4
62.5°	14586.1	14503.4	14787.0	16405.8	18469.1	18812.5	19848.8	20422.1	21542.7	20330.2	15573.4
65°	15062.9	15076.7	15567.2	17500.3	20074.1	20440.5	21378.7	21949.0	22404.2	20169.2	14590.7
67.5°	15631.6	15709.8	16546.8	18941.3	22094.6	22496.2	23604.6	23613.8	22885.6	19224.9	12656.1
70°	16461.0	16621.9	17894.3	20940.3	24967.4	25519.2	26374.6	24591.8	22209.6	16664.8	9958.1
72.5°	17196.8	17497.2	19327.6	23227.4	28468.6	28887.1	27995.0	24027.7	19384.3	12489.0	6203.9
74°	16897.8	17270.4	19588.2	24354.2	29787.0	29987.8	27447.7	22381.3	16162.0	8649.0	3605.5
75°	16254.0	16658.7	19208.0	24343.4	29619.9	29508.0	26126.3	20500.3	13310.7	5898.8	2399.1
77.5°	13117.6	13545.3	16185.0	20863.6	24286.7	24181.0	20069.5	13752.2	5829.9	1934.6	1218.7
80°	7626.5	7953.0	10047.0	13249.4	16376.6	16568.3	13198.8	6804.8	2293.3	1086.9	826.3
82.5°	3387.8	3613.2	4853.4	6763.4	9883.0	10129.8	6912.1	3565.7	1416.5	660.7	496.7
85°	2222.8	2389.9	2946.4	3220.8	4706.2	4874.8	3383.2	2776.2	935.1	363.3	364.8
87.5°	1598.9	1759.8	2189.1	1911.6	2159.9	2045.0	1841.1	2569.2	375.6	206.9	122.6
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°	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9	7667.9
2.5°	7595.8	7571.3	7516.1	7411.9	7353.6	7304.6	7223.3	7175.8	7154.3	7152.8	7162.0
5°	7407.3	7350.6	7208.0	7033.2	6893.7	6766.5	6608.6	6513.6	6446.1	6406.3	6417.0
7.5°	7188.1	7099.1	6875.3	6596.3	6372.5	6125.7	5882.0	5736.3	5622.9	5538.6	5553.9
10°	7037.8	6915.2	6588.7	6187.0	5814.5	5455.8	5120.1	4919.3	4759.8	4637.2	4646.4
12.5°	6987.2	6821.7	6369.5	5832.9	5310.2	4819.6	4381.2	4073.1	3909.1	3769.6	3780.3
15°	6994.9	6772.6	6185.5	5514.1	4856.4	4238.6	3706.7	3346.5	3124.2	3027.6	3029.1
17.5°	7001.0	6715.9	5992.4	5172.2	4407.3	3696.0	3118.0	2753.2	2543.2	2454.3	2455.8
20°	6981.1	6623.9	5753.2	4779.8	3938.2	3197.8	2638.2	2328.6	2169.1	2100.2	2100.2
22.5°	6955.1	6515.1	5483.4	4385.8	3475.2	2765.5	2294.8	2058.8	1966.8	1920.8	1919.3
25°	6967.3	6433.8	5207.5	3981.1	3049.1	2420.5	2066.4	1910.1	1848.8	1819.6	1818.1
27.5°	7033.2	6395.5	4953.0	3577.9	2676.6	2161.5	1913.1	1802.8	1762.9	1744.5	1744.5
30°	7152.8	6395.5	4687.8	3234.6	2366.9	1969.9	1795.1	1720.0	1692.4	1680.1	1680.1
32.5°	7361.3	6430.8	4431.8	2894.2	2120.1	1819.6	1697.0	1646.4	1624.9	1618.8	1618.8
35°	7720.0	6550.3	4181.9	2572.3	1920.8	1697.0	1603.5	1574.4	1559.0	1557.5	1562.1
37.5°	8224.3	6794.1	3947.4	2334.7	1779.8	1597.3	1525.3	1502.3	1493.1	1500.8	1506.9
40°	8859.0	7125.2	3734.3	2120.1	1672.5	1517.6	1453.2	1437.9	1433.3	1444.1	1453.2
42.5°	9625.5	7572.8	3559.5	1965.3	1589.7	1450.2	1391.9	1373.5	1368.9	1381.2	1393.5
45°	10454.8	8054.2	3436.9	1850.3	1525.3	1399.6	1338.3	1318.3	1309.2	1315.3	1329.1
47.5°	11209.0	8509.5	3387.8	1769.0	1464.0	1356.7	1290.8	1266.2	1250.9	1247.8	1258.6
50°	11845.2	8848.3	3410.8	1720.0	1414.9	1309.2	1244.8	1217.2	1194.2	1180.4	1188.0
52.5°	12308.2	9061.3	3432.3	1698.5	1376.6	1257.0	1194.2	1168.1	1137.5	1114.5	1114.5
55°	12643.9	9110.4	3384.8	1681.7	1347.5	1200.3	1137.5	1112.9	1082.3	1056.2	1053.1
57.5°	12775.7	8972.4	3208.5	1657.1	1327.5	1146.7	1077.7	1059.3	1033.2	1002.6	1001.0
60°	12597.9	8546.3	2868.2	1605.0	1301.5	1102.2	1017.9	1005.6	993.4	964.2	962.7
62.5°	11883.5	7611.2	2428.2	1499.2	1249.4	1054.7	962.7	968.8	970.4	950.4	947.4
65°	10588.2	6326.5	1999.0	1361.3	1171.2	998.0	906.0	935.1	952.0	948.9	944.3
67.5°	8705.7	4923.9	1693.9	1215.6	1068.5	919.8	844.7	878.4	892.2	902.9	899.8
70°	6461.4	3472.2	1401.1	1062.3	944.3	827.8	764.9	781.8	772.6	784.9	789.5
72.5°	3602.5	2083.3	1142.1	909.0	815.5	720.5	676.0	673.0	653.0	653.0	653.0
74°	2161.5	1528.4	1004.1	814.0	737.4	650.0	611.7	597.9	579.5	581.0	579.5
75°	1738.4	1313.7	921.3	751.2	682.2	608.6	570.3	551.9	538.1	538.1	536.5
77.5°	1097.6	998.0	742.0	597.9	545.7	501.3	475.2	450.7	450.7	449.2	447.6
80°	829.3	794.1	577.9	452.2	418.5	384.8	367.9	357.2	357.2	361.8	360.2
82.5°	568.7	597.9	406.2	315.8	298.9	274.4	271.3	272.9	268.3	262.1	260.6
85°	415.4	449.2	274.4	199.3	182.4	167.1	179.4	185.5	177.8	164.0	157.9
87.5°	159.4	294.3	147.2	82.8	76.6	65.9	76.6	79.7	85.8	67.5	69.0
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)