

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: P318802

Luminaire Tested: **GAN-SA8B-760-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-760-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46073 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

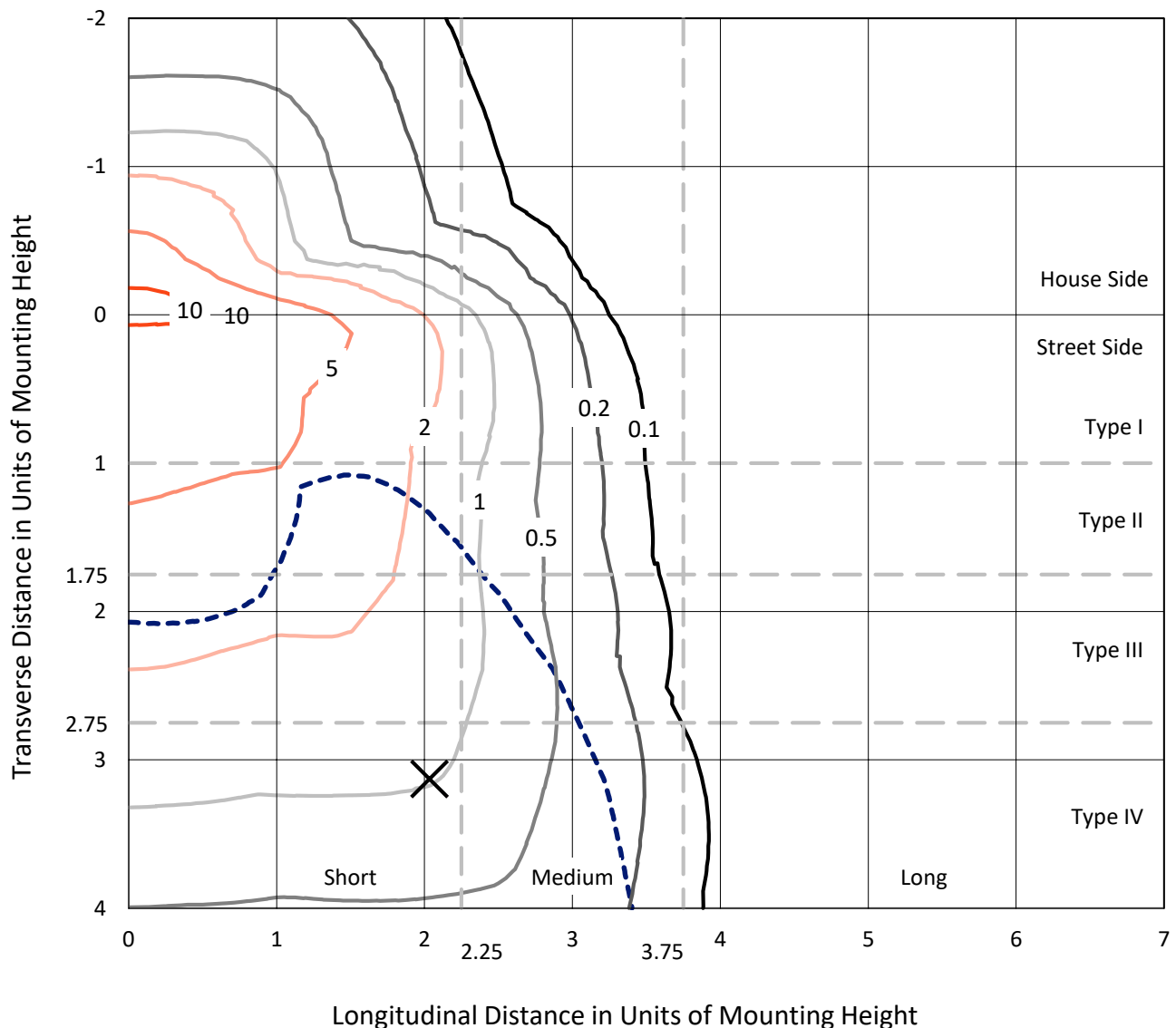
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

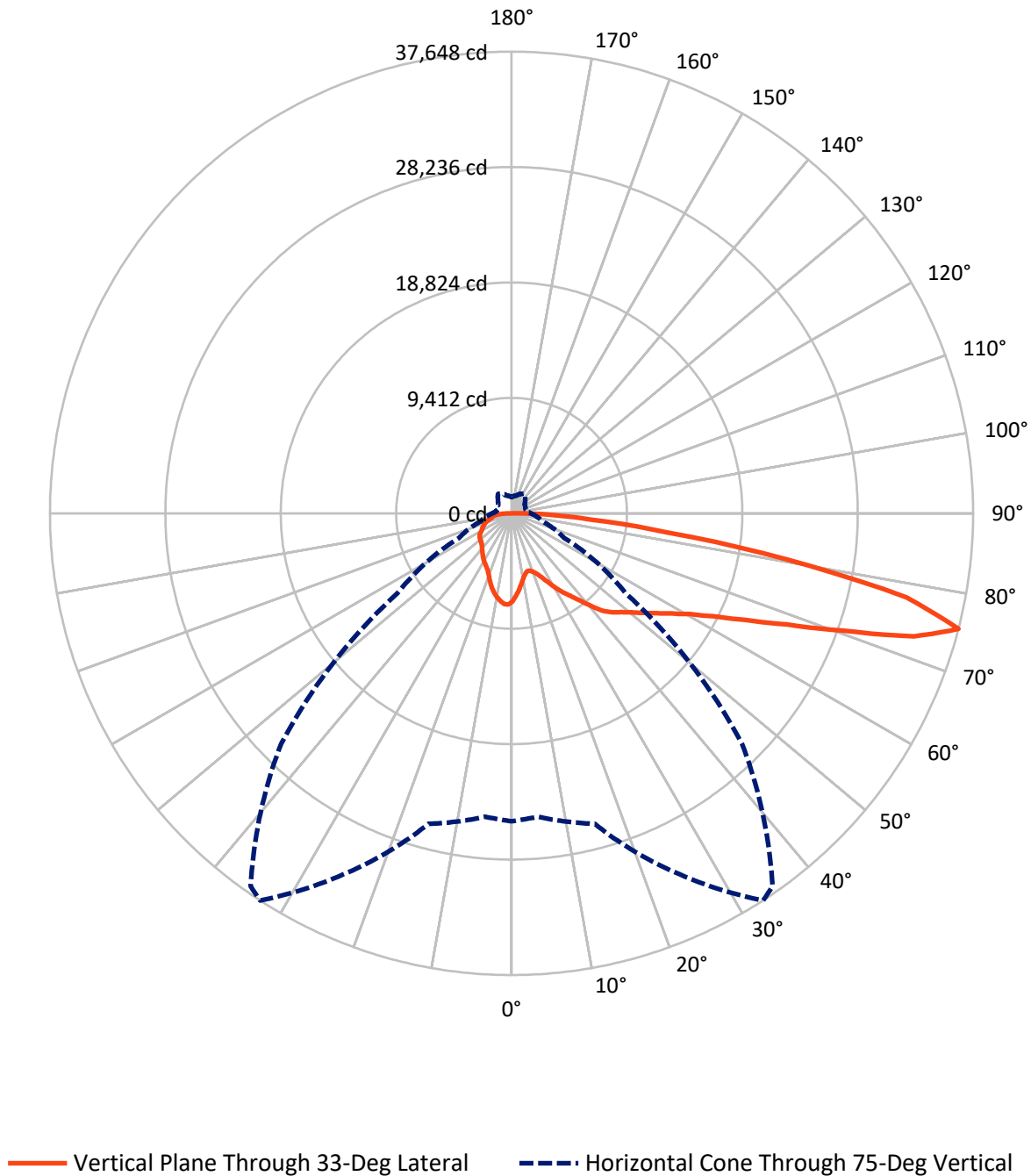
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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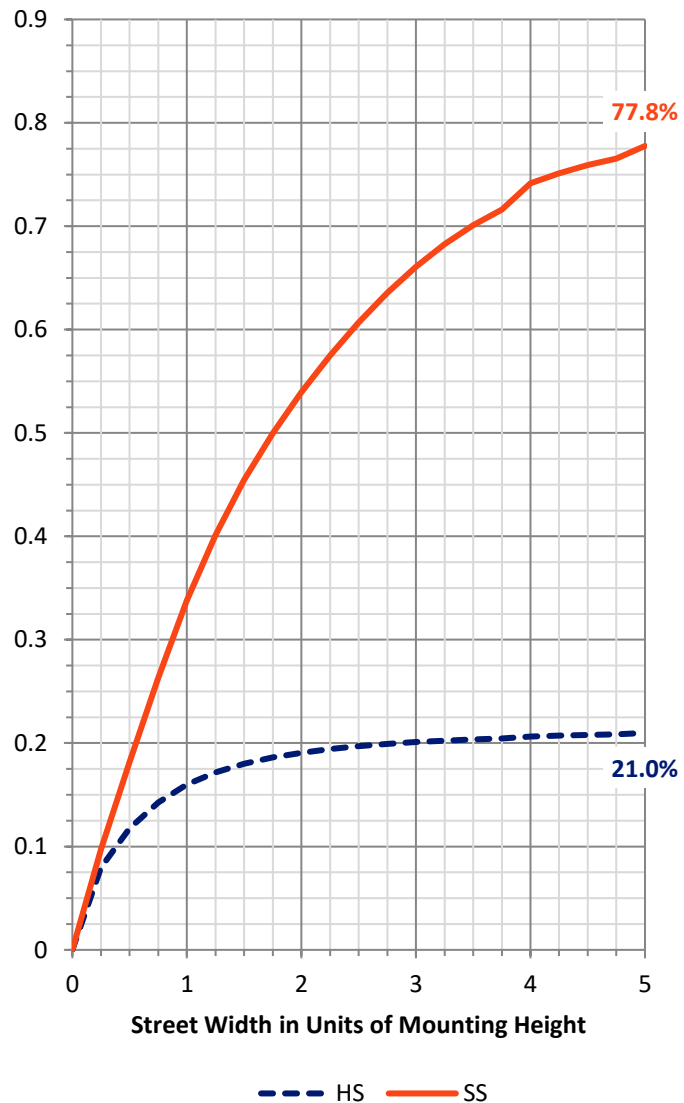
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9893.1	0.0	9893.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	36179.9	0.0	36179.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	46073.0	0.0	46073.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	651.3	1.4
10°-20°	1763.9	3.8
20°-30°	2880.8	6.3
30°-40°	4290.2	9.3
40°-50°	6153.3	13.4
50°-60°	8447.5	18.3
60°-70°	10575.9	23.0
70°-80°	9567.5	20.8
80°-90°	1742.8	3.8
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°	46073.0	100.0
0°-180°	46073.0	100.0

Coefficient of Utilization



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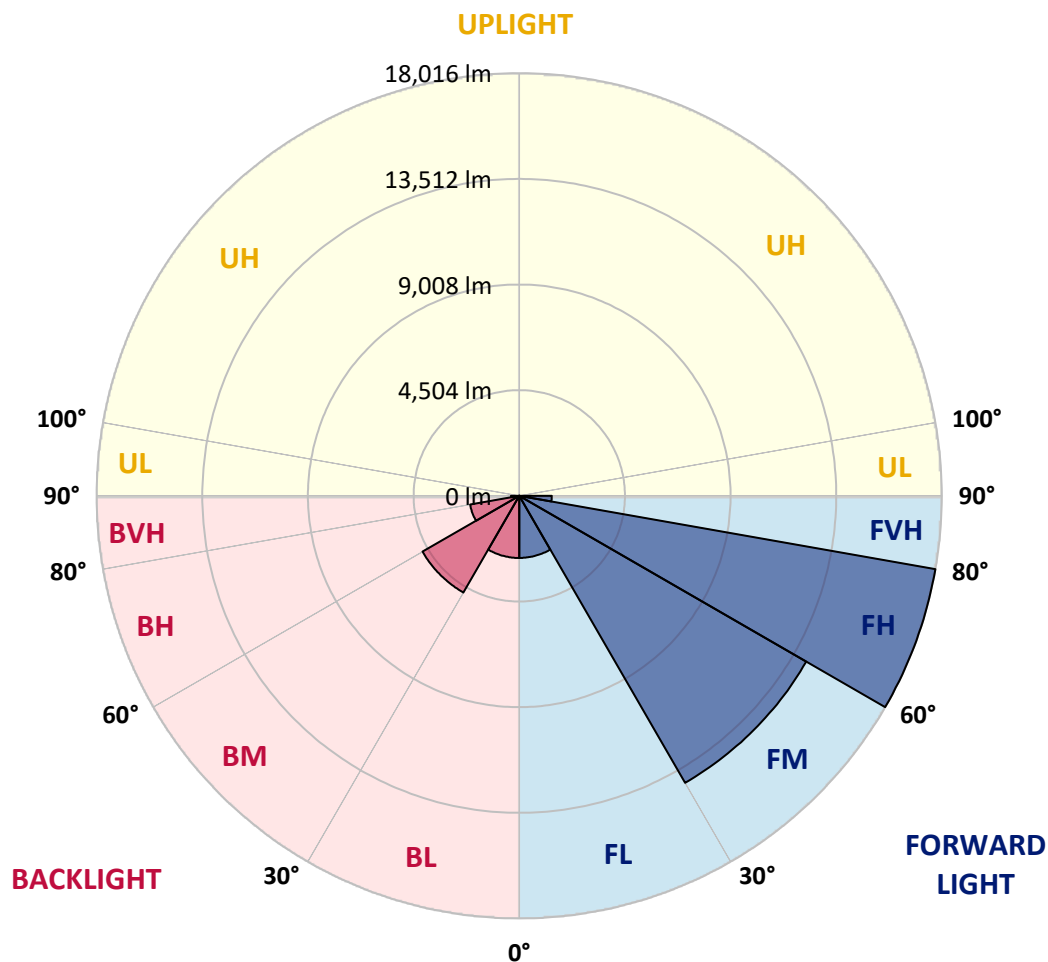
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2646.2	5.7			
FM	(30°-60°)	14129.6	30.7			
FH	(60°-80°)	18016.1	39.1			G5
FVH	(80°-90°)	1388.0	3.0			G5
BL	(0°-30°)	2649.8	5.8	B4/5000		
BM	(30°-60°)	4761.3	10.3	B3/5000		
BH	(60°-80°)	2127.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	354.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5
2.5°	6687.4	6662.0	6709.7	6716.1	6757.4	6773.4	6830.7	6919.8	6993.0	7077.3	7153.7
5°	6081.1	6063.6	6130.4	6178.1	6268.9	6307.1	6442.3	6631.7	6800.4	6991.4	7164.9
7.5°	5504.9	5495.4	5570.2	5678.4	5783.5	5836.0	6069.9	6345.2	6626.9	6935.7	7201.5
10°	5019.5	5016.4	5088.0	5194.6	5349.0	5407.9	5710.2	6073.1	6467.8	6892.7	7263.5
12.5°	4747.4	4758.5	4792.0	4881.1	5024.3	5083.2	5419.0	5845.5	6334.1	6878.4	7354.3
15°	4814.2	4831.7	4774.5	4771.3	4873.1	4919.3	5234.4	5683.2	6238.6	6902.3	7486.3
17.5°	5099.1	5102.3	4951.1	4855.6	4917.7	4941.6	5177.1	5590.9	6182.9	6956.4	7651.9
20°	5500.2	5492.2	5224.8	5065.7	5099.1	5105.5	5258.3	5592.5	6178.1	7050.3	7866.7
22.5°	6031.7	5972.8	5613.2	5396.7	5388.8	5379.2	5466.7	5710.2	6248.2	7203.1	8122.9
25°	6725.6	6669.9	6175.0	5878.9	5815.3	5791.4	5804.1	5961.7	6386.6	7367.0	8409.4
27.5°	7497.5	7400.4	6923.0	6504.4	6372.3	6338.9	6262.5	6316.6	6537.8	7524.5	8750.0
30°	8143.6	8091.1	7674.1	7177.6	7021.6	6973.9	6773.4	6714.5	6755.9	7739.4	9179.7
32.5°	8504.9	8469.9	8216.8	7815.8	7671.0	7604.1	7320.8	7203.1	7106.0	8078.4	9762.2
35°	8942.6	8920.3	8767.5	8476.2	8261.4	8191.4	7971.7	7849.2	7599.3	8544.7	10514.9
37.5°	9499.6	9475.7	9478.9	9243.3	8987.1	8921.9	8777.0	8648.1	8239.1	9157.4	11333.0
40°	10129.8	10083.6	10066.1	10055.0	9892.7	9856.1	9779.7	9604.6	9041.2	9889.5	12139.8
42.5°	11078.3	10914.4	10564.3	10696.4	10857.1	10838.0	10900.1	10648.6	9932.5	10755.3	12927.6
45°	11993.4	11724.5	11119.7	11148.4	11500.1	11606.7	12071.4	11893.2	10898.5	11703.8	13742.5
47.5°	12410.4	12206.7	11692.6	11694.2	12042.8	12264.0	13282.5	13155.2	11913.9	12781.2	14737.1
50°	12876.7	12673.0	12211.5	12384.9	12688.9	12924.4	14452.3	14387.0	12879.9	13960.5	15929.2
52.5°	13386.0	13040.6	12747.8	13058.1	13484.6	13758.4	15623.6	15445.4	13766.3	15147.8	17299.4
55°	13392.3	13298.4	13521.3	13748.8	14387.0	14722.8	16850.6	16379.6	14488.9	16314.3	18415.1
57.5°	14154.7	14001.9	14474.6	14579.6	15413.5	15792.3	18071.3	17192.8	15224.1	17208.7	19016.7
60°	15163.7	15033.2	15419.9	15696.8	16683.5	17189.6	19374.7	18028.3	15801.9	17883.5	18988.0
62.5°	16906.3	16758.3	16753.6	17141.9	18470.8	19059.6	20837.3	18848.0	16031.0	18017.2	18177.9
65°	19457.5	19222.0	18777.9	18962.5	20939.2	21526.4	22471.8	19441.6	15728.6	17301.0	16091.5
67.5°	21940.2	21932.3	21386.4	21765.1	24198.5	24669.6	24333.8	19500.5	14784.9	14807.2	12389.7
70°	24415.0	24446.8	24354.5	25672.2	28602.2	29092.3	26316.8	18709.5	12663.4	10693.2	7422.7
72.5°	26375.7	26367.7	26832.4	30230.3	34317.2	34207.4	27987.8	16312.7	9092.2	5772.3	3547.4
75°	25105.7	24828.8	26213.3	32487.0	37648.2	37111.8	26566.7	11379.1	4718.8	2627.5	1909.8
77.5°	16374.8	16637.4	18669.7	26837.2	32931.0	32278.5	19490.9	5309.2	2223.3	1723.6	1384.6
80°	5929.9	6206.8	8742.0	15201.9	22688.2	22581.6	9598.2	2181.9	1504.0	1301.8	1009.0
82.5°	2040.3	2142.1	3448.7	6751.1	12809.9	13287.3	3611.1	1239.8	1093.3	923.1	690.7
85°	800.5	916.7	1577.2	3248.2	6461.4	6509.2	1462.6	741.6	760.7	604.8	378.8
87.5°	304.0	369.2	754.4	1508.7	2950.6	2710.3	523.6	353.3	432.9	359.7	179.8
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°	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5	7201.5
2.5°	7212.6	7246.0	7316.1	7363.8	7414.7	7429.1	7435.4	7448.1	7460.9	7456.1	7457.7
5°	7257.2	7322.4	7435.4	7483.2	7505.4	7480.0	7430.6	7390.9	7362.2	7346.3	7341.5
7.5°	7330.4	7422.7	7543.6	7535.7	7484.8	7371.8	7244.4	7148.9	7069.4	7040.7	7024.8
10°	7427.5	7535.7	7620.0	7529.3	7381.3	7185.6	6994.6	6846.6	6727.2	6681.1	6673.1
12.5°	7551.6	7661.4	7677.3	7484.8	7239.7	6972.3	6712.9	6517.1	6338.9	6281.6	6268.9
15°	7712.3	7815.8	7717.1	7406.8	7064.6	6704.9	6369.1	6103.3	5915.5	5845.5	5820.1
17.5°	7881.0	7979.7	7725.1	7277.9	6835.4	6388.2	5966.5	5694.3	5479.5	5398.3	5388.8
20°	8083.2	8127.7	7691.6	7093.2	6520.3	5977.6	5533.6	5277.4	5162.8	5105.5	5099.1
22.5°	8333.0	8285.3	7615.3	6843.4	6120.9	5503.4	5142.1	5022.7	4994.1	4981.3	4986.1
25°	8597.2	8450.8	7502.3	6517.1	5616.3	5029.1	4855.6	4889.0	4927.2	4922.5	4922.5
27.5°	8888.4	8619.5	7328.8	6084.2	5057.7	4640.8	4661.5	4784.0	4841.3	4839.7	4838.1
30°	9262.4	8810.5	7107.6	5563.8	4535.7	4367.0	4492.8	4642.4	4720.3	4717.2	4718.8
32.5°	9722.4	9020.5	6806.8	4982.9	4158.5	4164.9	4309.7	4457.7	4548.5	4540.5	4542.1
35°	10260.3	9256.1	6399.4	4410.0	3908.7	4004.2	4118.8	4222.2	4308.1	4297.0	4285.9
37.5°	10846.0	9486.8	5858.3	3897.5	3705.0	3854.6	3950.1	3967.6	4007.4	3978.7	3958.0
40°	11403.0	9663.5	5161.2	3477.4	3499.7	3727.3	3789.3	3719.3	3647.7	3638.1	3609.5
42.5°	11888.4	9722.4	4456.2	3141.6	3283.2	3593.6	3631.8	3485.4	3356.4	3296.0	3270.5
45°	12400.8	9743.1	3798.9	2859.9	3074.7	3474.2	3515.6	3319.8	3138.4	3007.9	2964.9
47.5°	13070.9	9892.7	3288.0	2651.4	2915.6	3394.6	3453.5	3187.7	2952.2	2766.0	2726.2
50°	13947.8	10188.7	2872.6	2492.3	2812.2	3342.1	3409.0	3058.8	2799.4	2575.0	2535.2
52.5°	14921.8	10460.8	2536.8	2363.4	2711.9	3249.8	3351.7	2966.5	2656.2	2398.4	2355.4
55°	15602.9	10252.3	2266.3	2229.7	2581.4	3117.7	3272.1	2888.5	2450.9	2226.5	2188.3
57.5°	15733.4	9539.4	2061.0	2091.2	2423.8	2952.2	3149.5	2715.1	2339.5	2151.7	2111.9
60°	15376.9	8546.3	1908.2	1963.9	2255.1	2743.7	2920.4	2592.5	2232.9	2072.1	2038.7
62.5°	14480.9	7529.3	1795.2	1849.3	2097.6	2532.1	2777.1	2463.6	2124.6	1981.4	1948.0
65°	12671.4	6321.4	1687.0	1747.5	1951.2	2349.0	2648.2	2344.3	2018.0	1908.2	1876.4
67.5°	9564.8	4734.7	1585.1	1639.2	1820.7	2189.9	2508.2	2226.5	1914.6	1844.5	1806.3
70°	5632.3	2964.9	1468.9	1526.2	1683.8	2024.4	2358.6	2097.6	1785.6	1753.8	1704.5
72.5°	2621.2	1784.1	1336.8	1392.5	1511.9	1803.2	2166.0	1928.9	1632.9	1562.8	1496.0
75°	1564.4	1305.0	1180.9	1230.2	1314.6	1567.6	1924.1	1757.0	1488.0	1395.7	1325.7
77.5°	1169.7	997.9	1009.0	1061.5	1130.0	1371.9	1704.5	1621.7	1376.6	1305.0	1257.3
80°	841.9	757.5	822.8	880.1	951.7	1247.7	1632.9	1499.2	1244.5	1149.1	1104.5
82.5°	561.8	544.3	619.1	678.0	748.0	1091.8	1534.2	1313.0	1063.1	942.2	843.5
85°	310.3	327.8	417.0	442.4	502.9	768.7	1257.3	1055.2	800.5	644.6	615.9
87.5°	128.9	151.2	224.4	216.4	267.4	458.3	827.6	636.6	509.3	380.4	296.0
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)