

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: P317883

Luminaire Tested: **GAN-SA9B-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38399 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

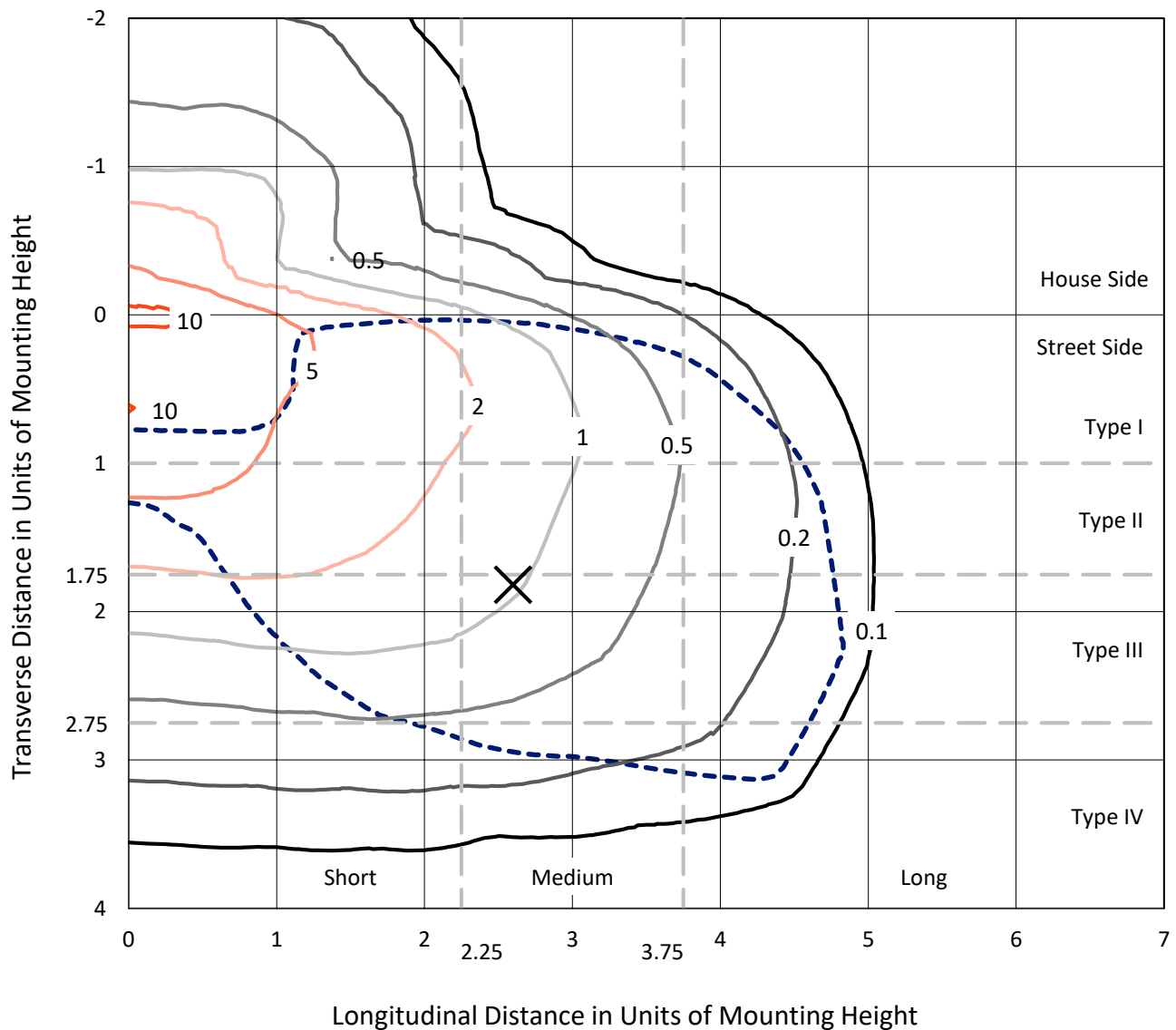


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Iso-Footcandle Lines of Horizontal Illumination

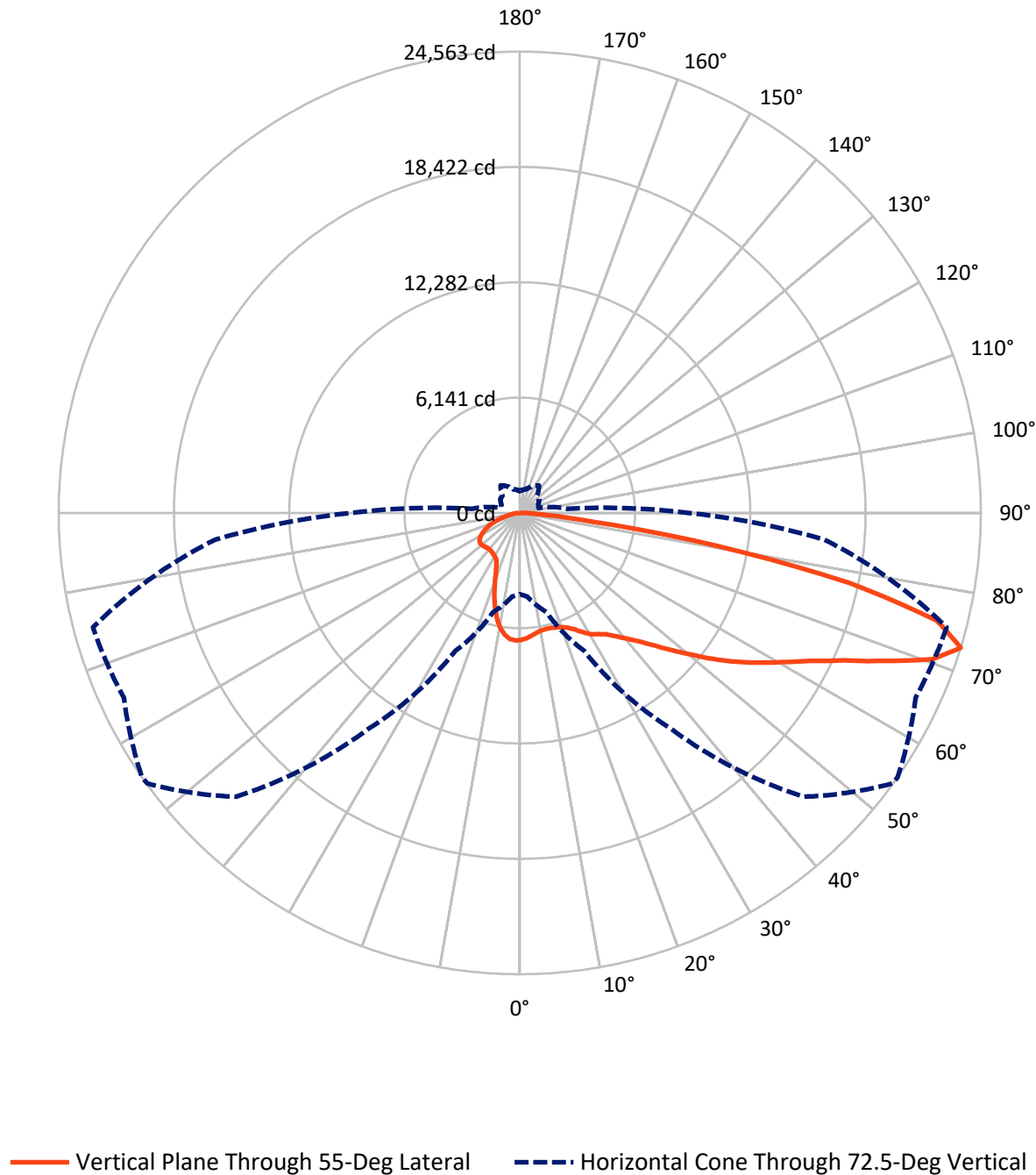
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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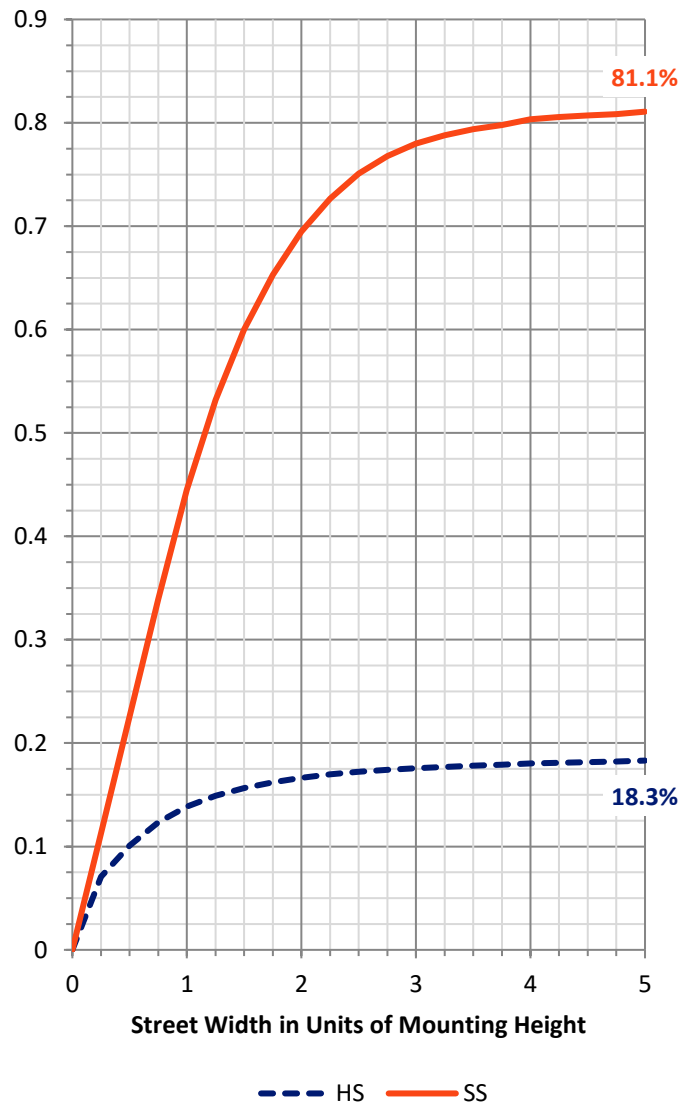
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7137.1	0.0	7137.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	31261.9	0.0	31261.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	38399.0	0.0	38399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.9	1.6
10°-20°	1631.6	4.2
20°-30°	2690.2	7.0
30°-40°	3979.4	10.4
40°-50°	5554.5	14.5
50°-60°	7232.1	18.8
60°-70°	8888.0	23.1
70°-80°	6967.1	18.1
80°-90°	843.1	2.2
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°	38399.0	100.0
0°-180°	38399.0	100.0

Coefficient of Utilization



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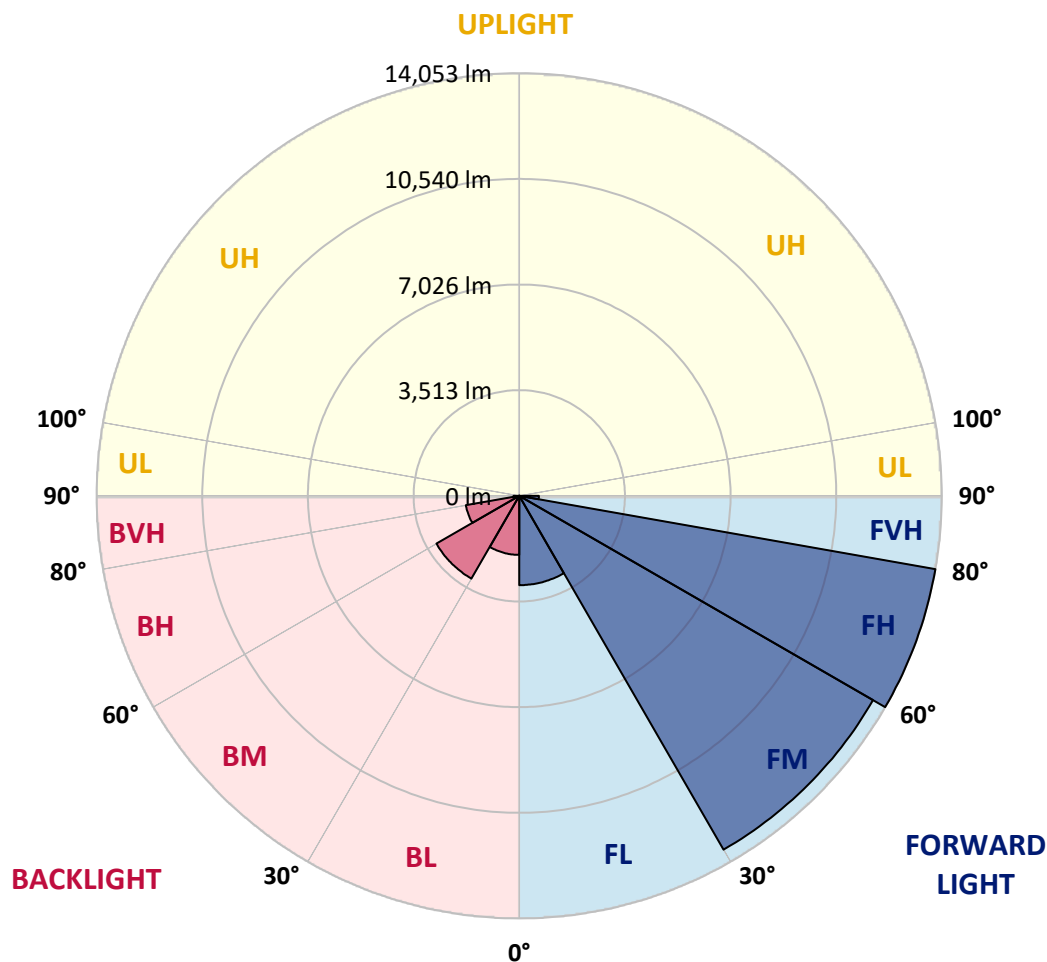
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2971.0	7.7			
FM	(30°-60°)	13586.3	35.4			
FH	(60°-80°)	14052.7	36.6			G5
FVH	(80°-90°)	651.9	1.7			G4/750
BL	(0°-30°)	1963.7	5.1	B3/2500		
BM	(30°-60°)	3179.7	8.3	B3/5000		
BH	(60°-80°)	1802.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	191.3	0.5			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8
2.5°	6552.3	6536.7	6556.2	6583.4	6613.2	6653.4	6676.8	6687.2	6727.4	6742.9	6776.6
5°	6248.8	6241.0	6273.4	6320.1	6386.3	6479.6	6554.9	6569.1	6675.5	6750.7	6819.4
7.5°	6028.3	6028.3	6065.9	6121.7	6195.6	6321.4	6427.8	6447.2	6627.5	6789.6	6916.7
10°	5853.2	5859.7	5903.8	5969.9	6056.8	6190.4	6331.8	6353.8	6614.5	6880.4	7082.7
12.5°	5736.5	5752.0	5792.3	5851.9	5959.6	6121.7	6300.7	6330.5	6641.8	7010.1	7282.5
15°	5810.4	5836.3	5840.2	5864.9	5924.5	6100.9	6318.8	6349.9	6700.1	7142.4	7509.4
17.5°	6134.7	6143.7	6103.5	6051.6	6023.1	6135.9	6373.3	6405.7	6770.2	7273.4	7727.3
20°	6627.5	6622.3	6535.4	6395.3	6250.1	6268.2	6462.8	6496.5	6864.8	7388.8	7945.2
22.5°	7250.0	7231.9	7098.3	6840.2	6592.5	6488.7	6619.7	6648.2	7007.5	7553.5	8178.7
25°	8004.9	7964.7	7788.3	7442.0	7077.5	6810.4	6855.8	6883.0	7215.0	7737.7	8392.7
27.5°	8801.2	8761.0	8536.6	8117.7	7632.6	7216.3	7181.3	7204.6	7451.1	7873.9	8550.9
30°	9633.9	9591.1	9386.1	8916.6	8221.5	7636.5	7484.8	7493.9	7617.1	7947.8	8680.6
32.5°	10470.4	10430.2	10200.6	9655.9	8860.9	8087.9	7704.0	7692.3	7716.9	8024.3	8827.2
35°	11318.6	11334.2	11065.7	10462.6	9569.0	8589.8	7963.4	7938.7	7884.3	8181.3	9034.7
37.5°	12226.5	12216.1	11868.5	11238.2	10309.6	9134.5	8335.6	8331.7	8143.7	8478.3	9360.2
40°	12833.5	12840.0	12628.6	12032.0	11057.9	9737.6	8812.9	8803.8	8557.4	8923.1	9786.9
42.5°	13070.8	13113.6	13168.1	12789.4	11841.3	10436.7	9382.3	9369.3	9134.5	9561.2	10288.8
45°	13087.7	13173.3	13510.5	13462.5	12635.0	11236.9	10109.9	10073.5	9904.9	10409.5	10888.0
47.5°	12942.4	13030.6	13590.9	13863.3	13344.5	12081.2	10960.7	10932.1	10786.9	11470.4	11536.5
50°	12624.7	12709.0	13424.9	14059.1	13928.1	12893.1	11941.2	11865.9	11788.1	12696.0	12278.4
52.5°	12029.4	12191.5	13203.1	14105.8	14277.0	13614.3	12972.3	12923.0	12965.8	13989.1	13021.5
55°	10619.6	10801.1	12631.2	14066.9	14535.1	14219.9	14003.3	14000.7	14222.5	15345.7	13819.2
57.5°	9829.7	9958.1	11466.5	14000.7	14841.2	14821.7	15024.1	15048.7	15480.6	16822.9	14654.4
60°	9383.6	9518.4	10876.4	13755.6	15315.9	15599.9	16065.5	16114.8	16759.4	18458.4	15659.6
62.5°	8977.6	9125.5	10510.6	13256.3	15874.9	16712.7	17313.2	17357.3	18113.4	20139.3	16631.0
65°	8283.7	8451.0	9975.0	12928.2	16383.3	18164.0	18899.4	18929.2	19668.5	21900.6	17374.2
67.5°	7303.2	7456.3	8964.6	12203.2	16759.4	19926.6	21008.3	21025.1	21210.6	23144.4	17754.2
70°	6158.0	6216.4	7525.0	10706.5	16314.5	21575.0	23319.5	23323.3	22616.5	23940.7	17691.9
72.5°	4326.7	4464.2	5462.8	8104.7	14020.2	21374.0	24519.1	24563.2	23270.2	23538.6	16278.2
75°	2653.6	2798.9	3426.6	4911.6	8894.6	16810.0	22654.1	22960.2	22044.5	20987.5	13297.8
77.5°	1774.2	1828.7	2236.0	2863.7	4029.7	9671.5	17417.0	17992.8	18313.2	15305.5	8504.2
80°	989.6	1093.3	1482.4	1779.4	1792.4	3842.9	10443.2	10578.1	10189.0	6094.4	2623.8
82.5°	524.0	581.0	989.6	1045.4	977.9	1286.6	3892.2	3896.1	3255.4	1634.2	779.5
85°	406.0	453.9	678.3	638.1	499.3	570.7	1284.0	1354.0	1107.6	669.2	254.2
87.5°	202.3	251.6	460.4	404.7	195.8	163.4	459.1	490.3	437.1	262.0	92.1
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°	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8	6772.8
2.5°	6789.6	6801.3	6815.6	6800.0	6794.8	6774.1	6739.0	6731.3	6713.1	6714.4	6724.8
5°	6849.3	6868.7	6861.0	6801.3	6730.0	6630.1	6526.3	6438.1	6379.8	6375.9	6372.0
7.5°	6963.4	6976.4	6915.4	6745.5	6545.8	6314.9	6097.0	5906.4	5791.0	5762.4	5755.9
10°	7142.4	7139.8	6972.5	6630.1	6231.9	5819.5	5469.3	5204.7	5050.4	5005.0	4993.3
12.5°	7342.1	7312.3	6991.9	6420.0	5788.4	5216.4	4772.8	4478.4	4317.6	4265.7	4252.8
15°	7548.3	7474.4	6944.0	6106.1	5243.6	4566.6	4101.0	3828.6	3741.7	3713.2	3708.0
17.5°	7740.3	7597.6	6806.5	5680.7	4622.4	3919.4	3556.3	3447.3	3468.1	3505.7	3507.0
20°	7928.4	7680.6	6586.0	5143.8	3967.4	3386.4	3263.2	3343.6	3442.1	3518.7	3529.0
22.5°	8113.8	7739.0	6302.0	4523.8	3381.2	3086.8	3173.7	3320.2	3433.1	3516.1	3530.3
25°	8269.5	7753.3	5910.3	3862.4	2973.9	2973.9	3130.9	3269.7	3381.2	3462.9	3477.2
27.5°	8326.5	7657.3	5357.8	3250.2	2769.0	2922.1	3071.2	3186.6	3281.3	3368.2	3383.8
30°	8348.6	7479.6	4719.7	2758.6	2684.7	2866.3	2990.8	3089.4	3178.9	3260.6	3274.8
32.5°	8352.5	7265.6	4042.6	2479.8	2626.4	2807.9	2890.9	2977.8	3073.8	3106.2	3111.4
35°	8377.1	7012.7	3329.3	2337.1	2571.9	2753.5	2819.6	2881.9	2726.2	2737.9	2748.3
37.5°	8448.4	6762.4	2732.7	2256.7	2536.9	2724.9	2804.0	2578.4	2456.5	2427.9	2424.0
40°	8582.0	6495.2	2290.4	2191.9	2523.9	2739.2	2704.2	2407.2	2197.1	2040.1	2016.8
42.5°	8767.5	6207.3	2007.7	2149.1	2533.0	2807.9	2565.4	2242.5	1893.6	1792.4	1779.4
45°	8976.3	5905.1	1854.7	2119.2	2564.1	2861.1	2536.9	2023.3	1752.2	1675.7	1669.2
47.5°	9178.6	5535.5	1775.5	2106.3	2606.9	2818.3	2416.2	1955.8	1684.8	1644.6	1648.4
50°	9410.8	5202.1	1727.6	2092.0	2644.5	2791.1	2280.1	1920.8	1658.8	1708.1	1760.0
52.5°	9606.6	4857.1	1684.8	2063.5	2658.8	2743.1	2245.0	1927.3	1658.8	1753.5	1802.8
55°	9838.8	4596.4	1635.5	2003.8	2631.5	2606.9	2220.4	1966.2	1678.3	1618.6	1623.8
57.5°	10138.4	4510.8	1581.0	1910.4	2540.8	2408.5	2208.7	2003.8	1666.6	1629.0	1642.0
60°	10553.4	4601.6	1559.0	1788.5	2399.4	2252.8	2210.0	1984.4	1584.9	1520.0	1521.3
62.5°	10949.0	4702.8	1557.7	1712.0	2225.6	2114.1	2180.2	1920.8	1543.4	1505.8	1520.0
65°	11078.7	4600.3	1495.4	1626.4	2029.8	1948.0	2125.7	1853.4	1512.3	1455.2	1452.6
67.5°	10904.9	4282.6	1369.6	1487.6	1805.4	1754.8	2054.4	1773.0	1463.0	1416.3	1408.5
70°	10388.7	3573.1	1214.0	1304.7	1549.9	1536.9	1941.6	1679.6	1396.8	1356.6	1322.9
72.5°	8999.6	2545.9	1023.3	1085.6	1261.9	1303.5	1785.9	1557.7	1303.5	1216.6	1164.7
75°	7391.4	1884.5	840.4	853.4	958.5	1071.3	1571.9	1415.0	1193.2	1045.4	1005.1
77.5°	4526.4	1153.0	669.2	674.4	687.4	854.7	1294.4	1255.5	1053.1	871.6	843.0
80°	1465.6	629.0	483.8	508.4	469.5	626.4	1001.3	1068.7	904.0	728.9	697.8
82.5°	557.7	367.0	326.8	343.7	325.5	420.2	730.2	856.0	740.6	599.2	487.7
85°	269.8	207.5	193.2	216.6	201.0	215.3	466.9	630.3	561.6	390.4	363.2
87.5°	96.0	92.1	73.9	99.9	85.6	76.5	142.7	317.8	370.9	268.5	239.9
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)