

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: P317832

Luminaire Tested: **GAN-SA8A-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317832
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-SA8A-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38187 lumens
Efficiency: N/A
Efficacy: 148.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 257
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

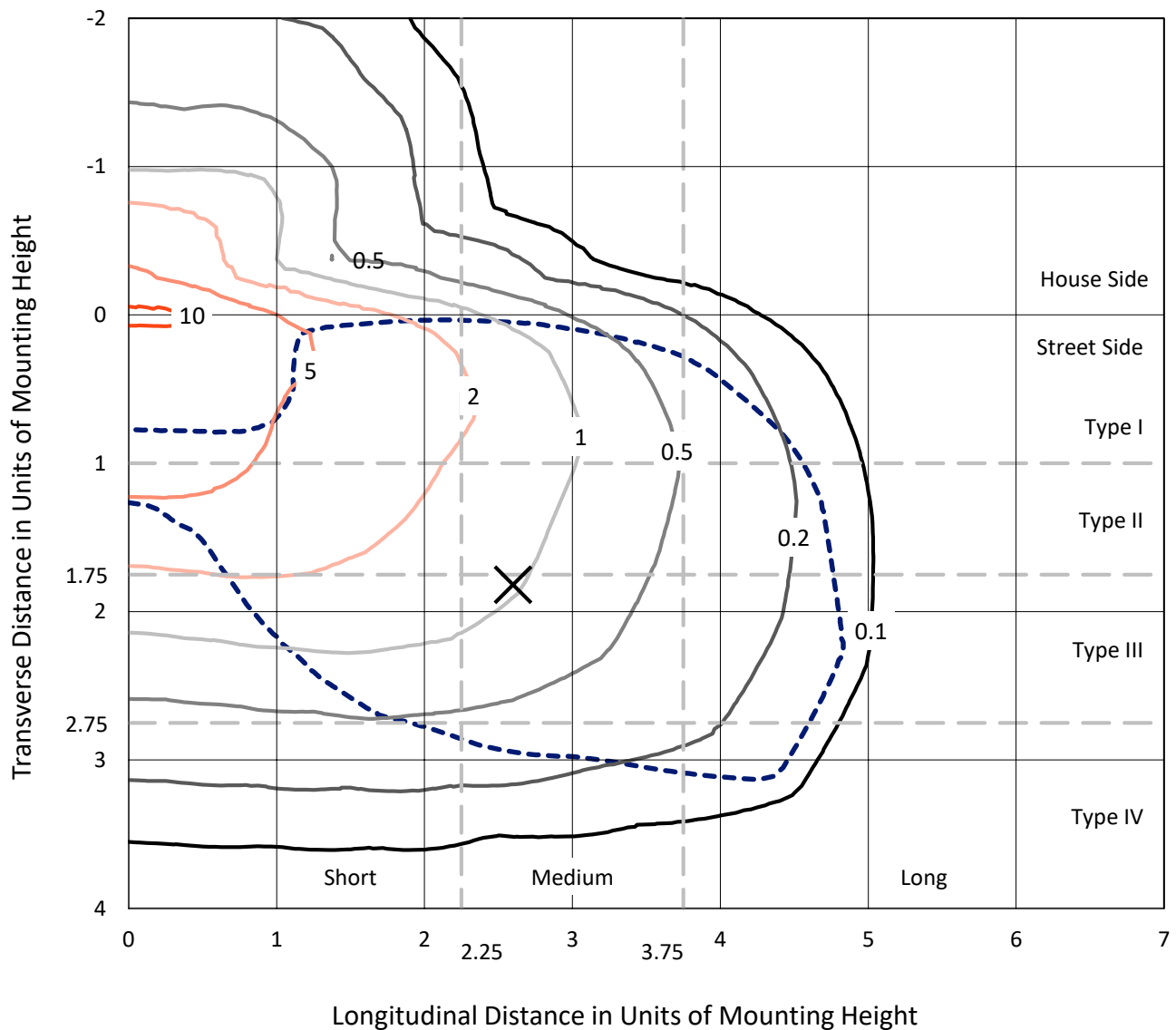


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Iso-Footcandle Lines of Horizontal Illumination

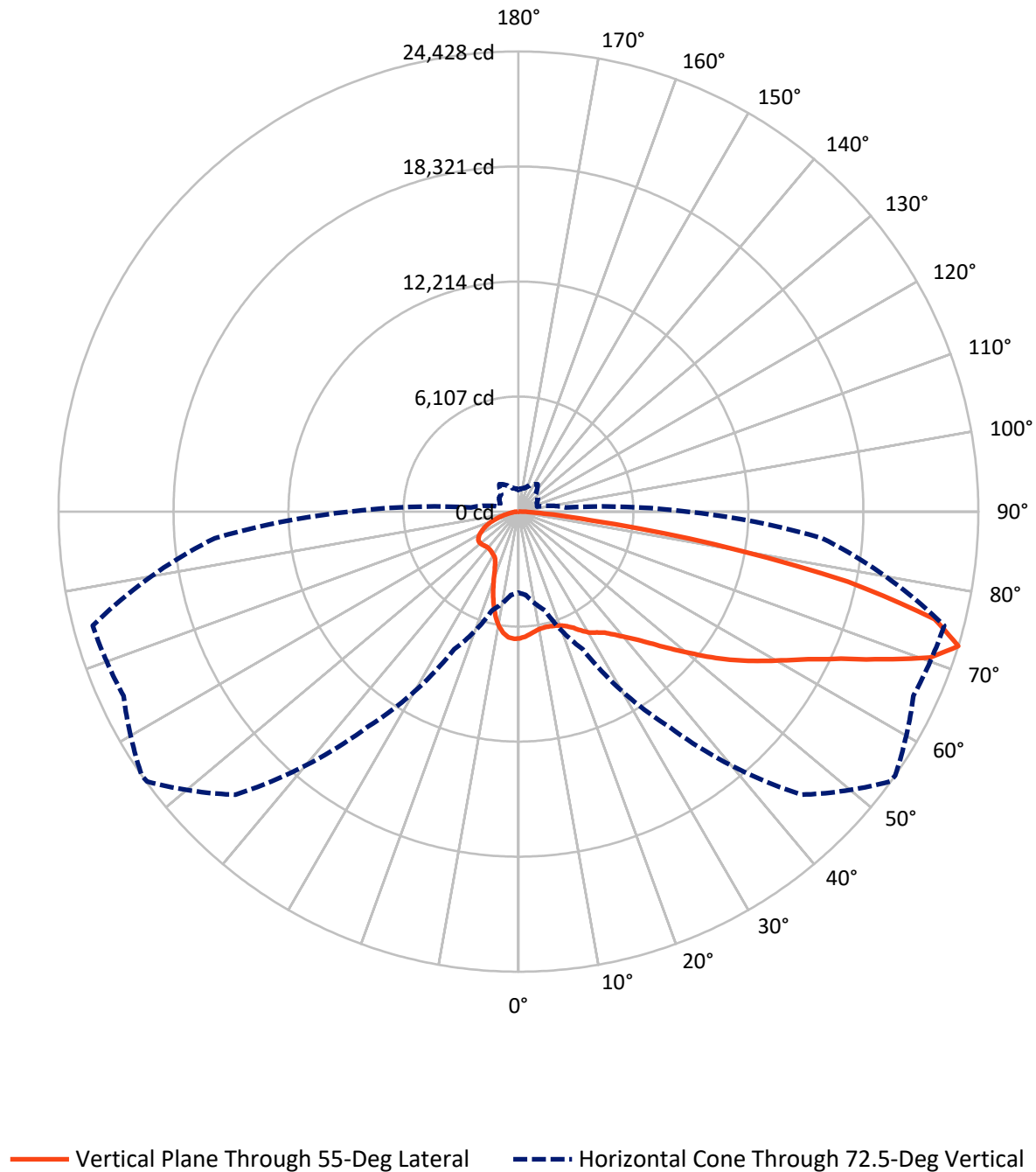
× Max cd
- - - 1/2 Max cd



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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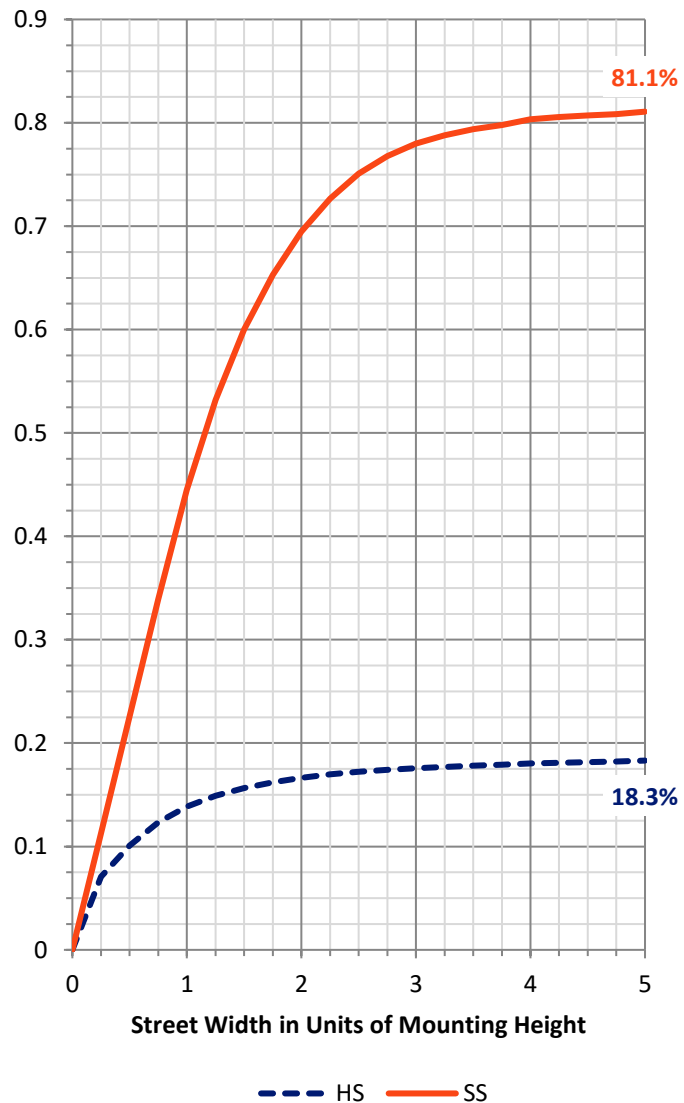
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7097.7	0.0	7097.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	31089.3	0.0	31089.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	38187.0	0.0	38187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.5	1.6
10°-20°	1622.6	4.2
20°-30°	2675.3	7.0
30°-40°	3957.5	10.4
40°-50°	5523.8	14.5
50°-60°	7192.2	18.8
60°-70°	8839.0	23.1
70°-80°	6928.7	18.1
80°-90°	838.5	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°	38187.0	100.0
0°-180°	38187.0	100.0

Coefficient of Utilization



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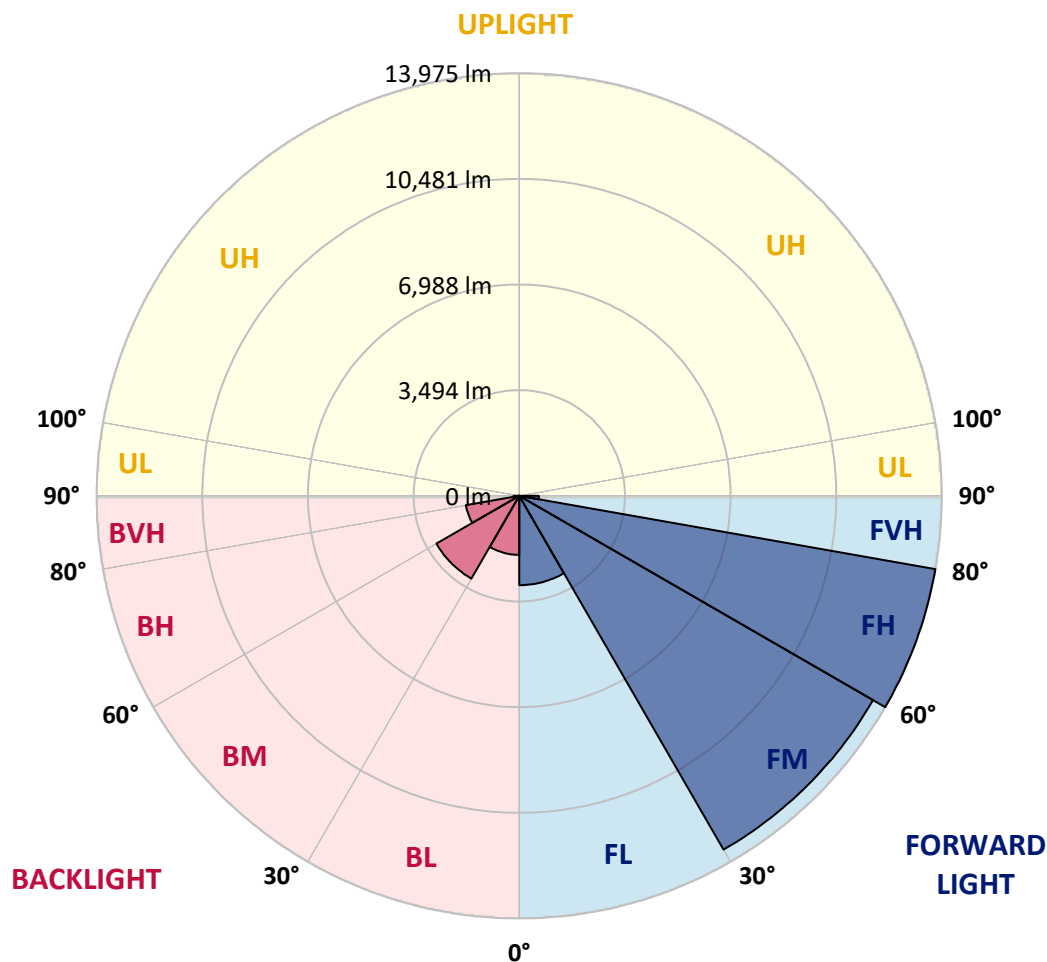
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2954.6	7.7			
FM	(30°-60°)	13511.3	35.4			
FH	(60°-80°)	13975.1	36.6			G5
FVH	(80°-90°)	648.3	1.7			G4/750
BL	(0°-30°)	1952.9	5.1	B3/2500		
BM	(30°-60°)	3162.1	8.3	B3/5000		
BH	(60°-80°)	1792.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	190.2	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°	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4
2.5°	6516.1	6500.6	6520.0	6547.1	6576.7	6616.7	6639.9	6650.2	6690.2	6705.7	6739.2
5°	6214.3	6206.5	6238.8	6285.2	6351.0	6443.9	6518.7	6532.9	6638.6	6713.4	6781.8
7.5°	5995.0	5995.0	6032.4	6087.9	6161.4	6286.5	6392.3	6411.6	6590.9	6752.1	6878.5
10°	5820.9	5827.3	5871.2	5937.0	6023.4	6156.2	6296.8	6318.8	6578.0	6842.4	7043.6
12.5°	5704.8	5720.3	5760.3	5819.6	5926.7	6087.9	6265.9	6295.5	6605.1	6971.4	7242.3
15°	5778.3	5804.1	5808.0	5832.5	5891.8	6067.2	6283.9	6314.9	6663.1	7103.0	7468.0
17.5°	6100.8	6109.8	6069.8	6018.2	5989.9	6102.1	6338.1	6370.4	6732.8	7233.2	7684.7
20°	6590.9	6585.7	6499.3	6360.0	6215.6	6233.6	6427.1	6460.6	6826.9	7348.0	7901.3
22.5°	7210.0	7192.0	7059.1	6802.4	6556.1	6452.9	6583.2	6611.5	6968.8	7511.8	8133.5
25°	7960.7	7920.7	7745.3	7400.9	7038.5	6772.8	6817.9	6845.0	7175.2	7695.0	8346.3
27.5°	8752.6	8712.6	8489.5	8072.9	7590.5	7176.5	7141.7	7164.9	7409.9	7830.4	8503.7
30°	9580.7	9538.1	9334.3	8867.4	8176.1	7594.4	7443.5	7452.5	7575.0	7903.9	8632.7
32.5°	10412.6	10372.6	10144.3	9602.6	8812.0	8043.2	7661.4	7649.8	7674.3	7980.0	8778.4
35°	11256.1	11271.6	11004.6	10404.9	9516.2	8542.4	7919.4	7894.9	7840.7	8136.1	8984.8
37.5°	12159.0	12148.7	11803.0	11176.2	10252.7	9084.1	8289.6	8285.7	8098.7	8431.5	9308.5
40°	12762.6	12769.1	12558.8	11965.5	10996.9	9683.9	8764.2	8755.2	8510.1	8873.9	9732.9
42.5°	12998.7	13041.2	13095.4	12718.8	11775.9	10379.1	9330.5	9317.6	9084.1	9508.4	10232.0
45°	13015.4	13100.6	13435.9	13388.2	12565.3	11174.9	10054.0	10017.9	9850.2	10352.0	10827.9
47.5°	12871.0	12958.7	13515.9	13786.7	13270.8	12014.5	10900.1	10871.8	10727.3	11407.0	11472.8
50°	12555.0	12638.8	13350.8	13981.5	13851.2	12822.0	11875.2	11800.4	11723.0	12625.9	12210.6
52.5°	11962.9	12124.2	13130.2	14027.9	14198.2	13539.1	12900.6	12851.6	12894.2	13911.8	12949.6
55°	10560.9	10741.5	12561.4	13989.2	14454.9	14141.4	13926.0	13923.5	14144.0	15261.0	13742.9
57.5°	9775.4	9903.1	11403.2	13923.5	14759.2	14739.9	14941.1	14965.6	15395.1	16730.1	14573.5
60°	9331.7	9465.9	10816.3	13679.7	15231.3	15513.8	15976.8	16025.8	16666.9	18356.5	15573.1
62.5°	8928.0	9075.1	10452.6	13183.1	15787.2	16620.4	17217.6	17261.5	18013.4	20028.1	16539.2
65°	8238.0	8404.4	9919.9	12856.8	16292.8	18063.7	18795.0	18824.7	19559.9	21779.7	17278.2
67.5°	7262.9	7415.1	8915.1	12135.8	16666.9	19816.6	20892.3	20909.0	21093.5	23016.6	17656.1
70°	6124.0	6182.0	7483.5	10647.3	16224.5	21455.9	23190.7	23194.6	22491.6	23808.5	17594.2
72.5°	4302.8	4439.5	5432.7	8060.0	13942.8	21256.0	24383.8	24427.6	23141.7	23408.7	16188.4
75°	2638.9	2783.4	3407.7	4884.5	8845.5	16717.2	22529.0	22833.4	21922.8	20871.6	13224.4
77.5°	1764.5	1818.6	2223.6	2847.9	4007.4	9618.1	17320.8	17893.5	18212.1	15221.0	8457.3
80°	984.1	1087.3	1474.2	1769.6	1782.5	3821.7	10385.5	10519.7	10132.7	6060.8	2609.3
82.5°	521.1	577.8	984.1	1039.6	972.5	1279.5	3870.7	3874.6	3237.4	1625.2	775.2
85°	403.7	451.4	674.6	634.6	496.6	567.5	1276.9	1346.6	1101.5	665.5	252.8
87.5°	201.2	250.2	457.9	402.4	194.8	162.5	456.6	487.5	434.7	260.5	91.6
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°	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4	6735.4
2.5°	6752.1	6763.7	6777.9	6762.5	6757.3	6736.7	6701.8	6694.1	6676.0	6677.3	6687.6
5°	6811.5	6830.8	6823.1	6763.7	6692.8	6593.5	6490.3	6402.6	6344.6	6340.7	6336.8
7.5°	6925.0	6937.9	6877.2	6708.3	6509.6	6280.1	6063.4	5873.8	5759.0	5730.6	5724.2
10°	7103.0	7100.4	6934.0	6593.5	6197.5	5787.4	5439.1	5176.0	5022.5	4977.4	4965.8
12.5°	7301.6	7271.9	6953.3	6384.5	5756.4	5187.6	4746.5	4453.7	4293.8	4242.2	4229.3
15°	7506.7	7433.2	6905.6	6072.4	5214.7	4541.4	4078.4	3807.5	3721.1	3692.7	3687.6
17.5°	7697.6	7555.7	6768.9	5649.3	4596.9	3897.8	3536.6	3428.3	3448.9	3486.3	3487.6
20°	7884.6	7638.2	6549.6	5115.4	3945.5	3367.7	3245.2	3325.1	3423.1	3499.2	3509.6
22.5°	8069.0	7696.3	6267.2	4498.8	3362.5	3069.7	3156.2	3301.9	3414.1	3496.7	3510.9
25°	8223.8	7710.5	5877.6	3841.0	2957.5	2957.5	3113.6	3251.6	3362.5	3443.8	3458.0
27.5°	8280.6	7615.0	5328.2	3232.3	2753.7	2905.9	3054.3	3169.1	3263.2	3349.6	3365.1
30°	8302.5	7438.3	4693.6	2743.4	2669.9	2850.5	2974.3	3072.3	3161.3	3242.6	3256.8
32.5°	8306.3	7225.5	4020.3	2466.1	2611.9	2792.4	2875.0	2961.4	3056.8	3089.1	3094.2
35°	8330.9	6974.0	3310.9	2324.2	2557.7	2738.3	2804.0	2865.9	2711.2	2722.8	2733.1
37.5°	8401.8	6725.0	2717.6	2244.3	2522.9	2709.9	2788.6	2564.1	2442.9	2414.5	2410.6
40°	8534.6	6459.3	2277.8	2179.8	2510.0	2724.1	2689.2	2393.9	2184.9	2028.9	2005.6
42.5°	8719.1	6173.0	1996.6	2137.2	2519.0	2792.4	2551.2	2230.1	1883.1	1782.5	1769.6
45°	8926.7	5872.5	1844.4	2107.5	2549.9	2845.3	2522.9	2012.1	1742.5	1666.4	1660.0
47.5°	9128.0	5504.9	1765.7	2094.6	2592.5	2802.7	2402.9	1945.0	1675.5	1635.5	1639.3
50°	9358.8	5173.4	1718.0	2080.5	2629.9	2775.7	2267.5	1910.2	1649.7	1698.7	1750.3
52.5°	9553.6	4830.3	1675.5	2052.1	2644.1	2727.9	2232.7	1916.7	1649.7	1743.8	1792.8
55°	9784.5	4571.1	1626.4	1992.7	2617.0	2592.5	2208.1	1955.3	1669.0	1609.7	1614.8
57.5°	10082.4	4485.9	1572.3	1899.9	2526.7	2395.2	2196.5	1992.7	1657.4	1620.0	1632.9
60°	10495.1	4576.2	1550.3	1778.6	2386.1	2240.4	2197.8	1973.4	1576.1	1511.7	1512.9
62.5°	10888.5	4676.8	1549.1	1702.5	2213.3	2102.4	2168.2	1910.2	1534.9	1497.5	1511.7
65°	11017.5	4574.9	1487.1	1617.4	2018.5	1937.3	2114.0	1843.1	1503.9	1447.2	1444.6
67.5°	10844.7	4258.9	1362.0	1479.4	1795.4	1745.1	2043.1	1763.2	1454.9	1408.5	1400.7
70°	10331.3	3553.4	1207.3	1297.5	1541.3	1528.4	1930.8	1670.3	1389.1	1349.1	1315.6
72.5°	8950.0	2531.9	1017.7	1079.6	1255.0	1296.3	1776.1	1549.1	1296.3	1209.8	1158.2
75°	7350.6	1874.1	835.8	848.7	953.2	1065.4	1563.2	1407.2	1186.6	1039.6	999.6
77.5°	4501.4	1146.6	665.5	670.7	683.6	850.0	1287.2	1248.5	1047.3	866.7	838.4
80°	1457.5	625.6	481.1	505.6	466.9	623.0	995.7	1062.8	899.0	724.9	693.9
82.5°	554.6	365.0	325.0	341.8	323.7	417.9	726.2	851.3	736.5	595.9	485.0
85°	268.3	206.4	192.2	215.4	199.9	214.1	464.3	626.8	558.5	388.2	361.1
87.5°	95.4	91.6	73.5	99.3	85.1	76.1	141.9	316.0	368.9	267.0	238.6
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)