

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: P317848

Luminaire Tested: **GAN-SA4C-760-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317848
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-SA4C-760-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29172 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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

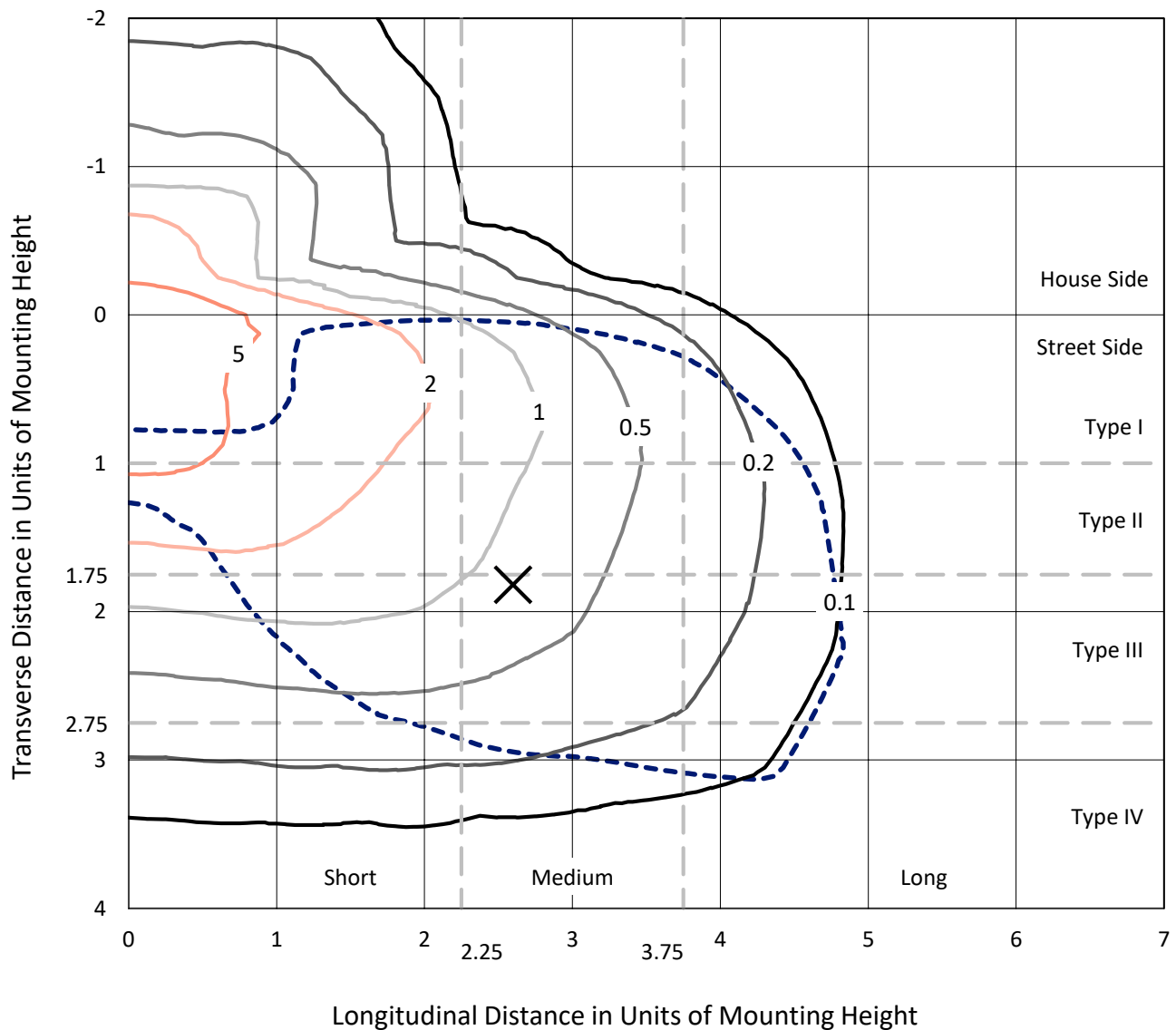


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Iso-Footcandle Lines of Horizontal Illumination

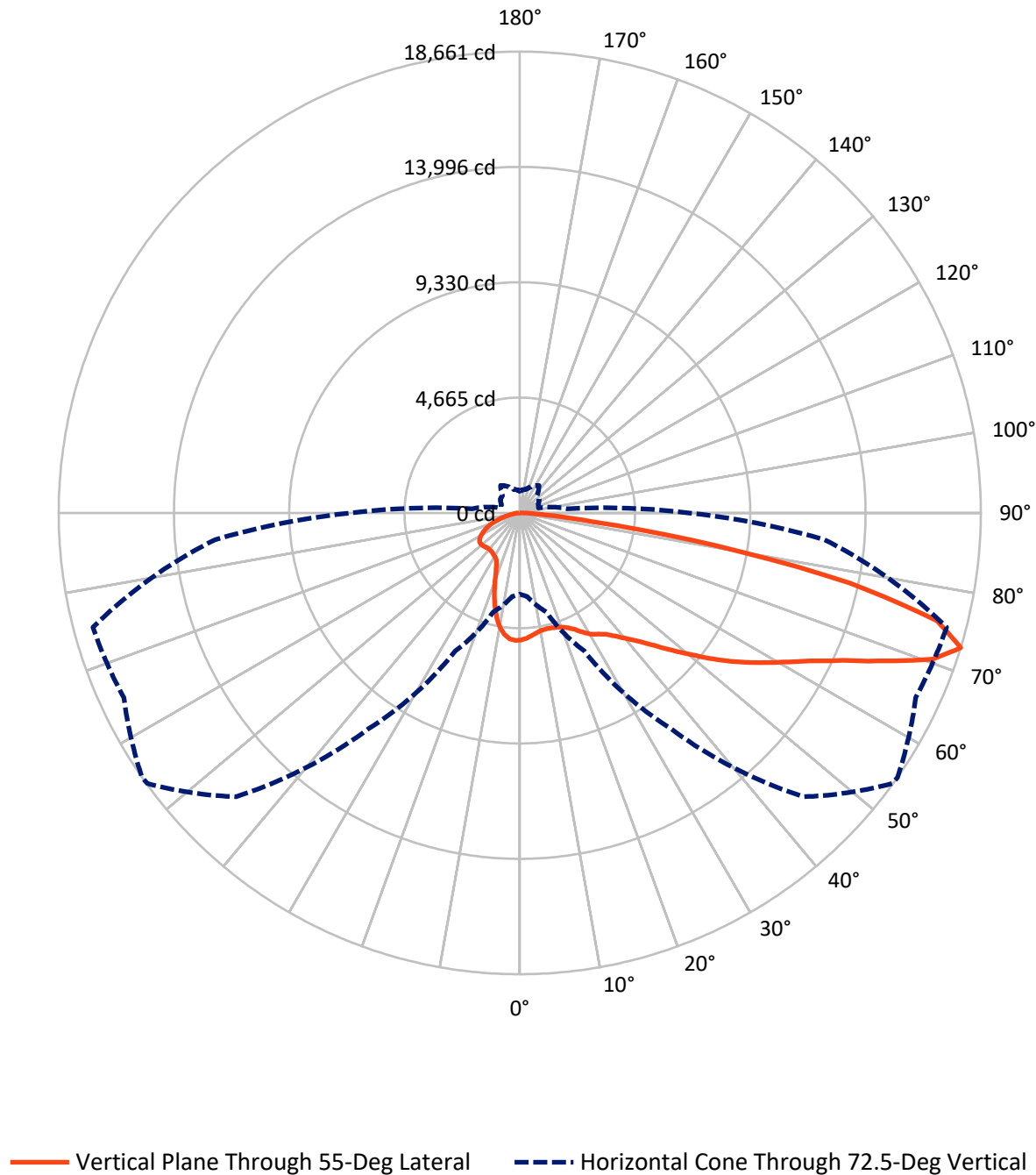
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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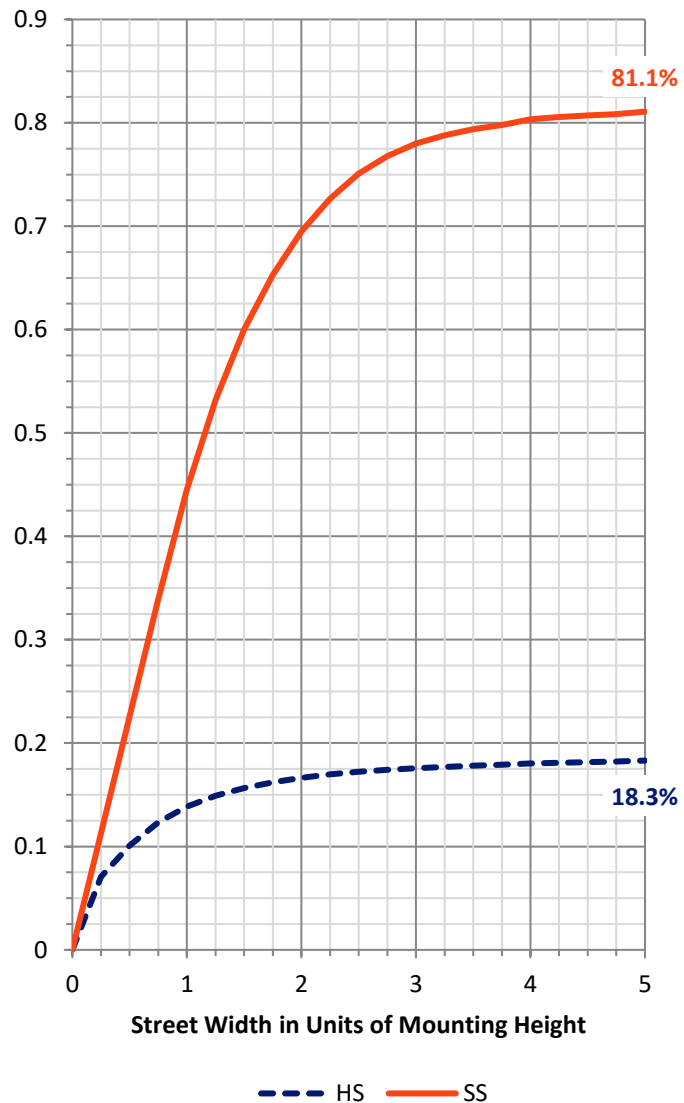
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5422.1	0.0	5422.1
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23749.9	0.0	23749.9
	% Fixture	81.4	0.0	81.4
Total	Lumens	29172.0	0.0	29172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.6	1.6
10°-20°	1239.6	4.2
20°-30°	2043.7	7.0
30°-40°	3023.2	10.4
40°-50°	4219.8	14.5
50°-60°	5494.3	18.8
60°-70°	6752.3	23.1
70°-80°	5293.0	18.1
80°-90°	640.5	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°	29172.0	100.0
0°-180°	29172.0	100.0

Coefficient of Utilization



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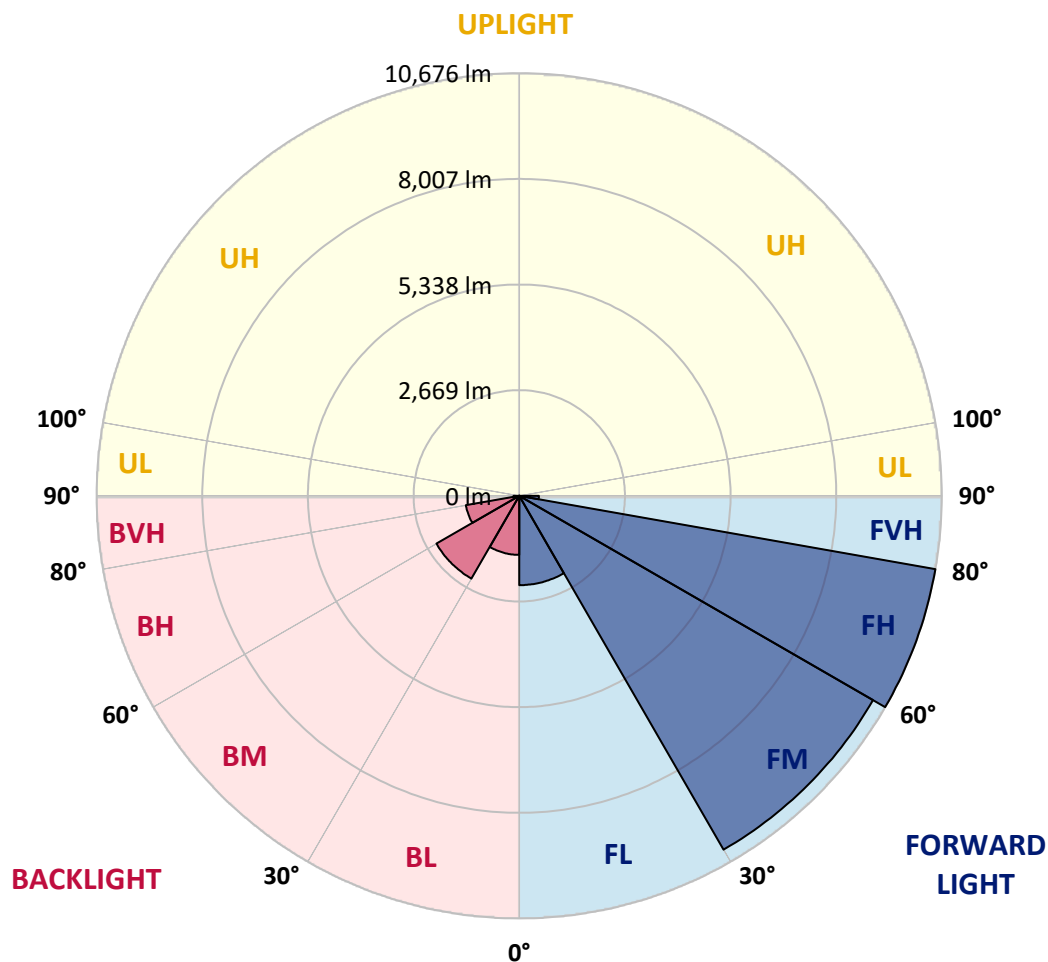
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2257.1	7.7			
FM	(30°-60°)	10321.6	35.4			
FH	(60°-80°)	10676.0	36.6			G4/12000
FVH	(80°-90°)	495.2	1.7			G3/500
BL	(0°-30°)	1491.8	5.1	B3/2500		
BM	(30°-60°)	2415.6	8.3	B2/2500		
BH	(60°-80°)	1369.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	145.3	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3
2.5°	4977.8	4966.0	4980.8	5001.5	5024.1	5054.7	5072.4	5080.3	5110.8	5122.7	5148.3
5°	4747.2	4741.3	4766.0	4801.4	4851.7	4922.6	4979.8	4990.6	5071.4	5128.6	5180.8
7.5°	4579.7	4579.7	4608.3	4650.7	4706.8	4802.4	4883.2	4898.0	5035.0	5158.1	5254.7
10°	4446.7	4451.7	4485.2	4535.4	4601.4	4702.9	4810.3	4827.1	5025.1	5227.1	5380.8
12.5°	4358.0	4369.9	4400.4	4445.7	4527.5	4650.7	4786.7	4809.3	5045.8	5325.6	5532.5
15°	4414.2	4433.9	4436.9	4455.6	4500.9	4634.9	4800.5	4824.1	5090.1	5426.1	5705.0
17.5°	4660.5	4667.4	4636.9	4597.5	4575.8	4661.5	4841.8	4866.5	5143.3	5525.6	5870.5
20°	5035.0	5031.0	4965.0	4858.6	4748.2	4762.0	4909.8	4935.4	5215.3	5613.3	6036.0
22.5°	5507.9	5494.1	5392.6	5196.5	5008.4	4929.5	5029.0	5050.7	5323.7	5738.5	6213.4
25°	6081.4	6050.8	5916.8	5653.7	5376.9	5173.9	5208.4	5229.1	5481.3	5878.4	6376.0
27.5°	6686.3	6655.8	6485.3	6167.1	5798.6	5482.3	5455.7	5473.4	5660.6	5981.8	6496.2
30°	7318.9	7286.4	7130.7	6774.0	6245.9	5801.5	5686.3	5693.1	5786.8	6038.0	6594.7
32.5°	7954.4	7923.9	7749.5	7335.7	6731.7	6144.4	5852.8	5843.9	5862.6	6096.1	6706.1
35°	8598.8	8610.7	8406.7	7948.5	7269.7	6525.7	6049.8	6031.1	5989.7	6215.4	6863.7
37.5°	9288.6	9280.7	9016.6	8537.8	7832.3	6939.6	6332.6	6329.7	6186.8	6441.0	7111.0
40°	9749.7	9754.6	9594.0	9140.8	8400.8	7397.7	6695.2	6688.3	6501.1	6779.0	7435.2
42.5°	9930.0	9962.5	10003.9	9716.2	8995.9	7928.8	7127.8	7117.9	6939.6	7263.7	7816.5
45°	9942.8	10007.8	10264.0	10227.6	9598.9	8536.8	7680.5	7652.9	7524.8	7908.1	8271.7
47.5°	9832.5	9899.5	10325.1	10532.0	10137.9	9178.2	8326.9	8305.2	8194.9	8714.1	8764.4
50°	9591.1	9655.1	10199.0	10680.8	10581.3	9795.0	9071.8	9014.6	8955.5	9645.2	9328.0
52.5°	9138.8	9262.0	10030.5	10716.3	10846.3	10342.8	9855.1	9817.7	9850.2	10627.6	9892.6
55°	8067.8	8205.7	9596.0	10686.7	11042.4	10803.0	10638.4	10636.5	10805.0	11658.2	10498.5
57.5°	7467.7	7565.2	8711.2	10636.5	11275.0	11260.2	11413.9	11432.6	11760.7	12780.5	11133.1
60°	7128.8	7231.2	8262.8	10450.2	11635.6	11851.4	12205.1	12242.5	12732.2	14023.0	11896.7
62.5°	6820.3	6932.7	7985.0	10070.9	12060.3	12696.8	13153.0	13186.5	13760.9	15300.0	12634.7
65°	6293.2	6420.3	7578.1	9821.6	12446.5	13799.3	14358.0	14380.7	14942.3	16638.0	13199.3
67.5°	5548.3	5664.6	6810.5	9270.8	12732.2	15138.4	15960.1	15972.9	16113.8	17582.9	13488.0
70°	4678.3	4722.6	5716.8	8133.8	12394.3	16390.7	17716.0	17718.9	17181.9	18187.9	13440.7
72.5°	3287.0	3391.5	4150.1	6157.2	10651.3	16238.0	18627.4	18660.9	17678.5	17882.5	12366.7
75°	2016.0	2126.3	2603.2	3731.4	6757.3	12770.7	17210.5	17443.0	16747.4	15944.4	10102.4
77.5°	1347.9	1389.3	1698.7	2175.6	3061.4	7347.5	13231.8	13669.3	13912.6	11627.7	6460.7
80°	751.8	830.6	1126.2	1351.9	1361.7	2919.5	7933.8	8036.2	7740.6	4630.0	1993.3
82.5°	398.1	441.4	751.8	794.2	742.9	977.4	2956.9	2959.9	2473.1	1241.5	592.2
85°	308.4	344.9	515.3	484.8	379.3	433.5	975.5	1028.7	841.5	508.4	193.1
87.5°	153.7	191.2	349.8	307.4	148.8	124.1	348.8	372.4	332.1	199.0	70.0
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°	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3	5145.3
2.5°	5158.1	5167.0	5177.8	5166.0	5162.1	5146.3	5119.7	5113.8	5100.0	5101.0	5108.9
5°	5203.4	5218.2	5212.3	5167.0	5112.8	5036.9	4958.1	4891.1	4846.8	4843.8	4840.9
7.5°	5290.2	5300.0	5253.7	5124.6	4972.9	4797.5	4632.0	4487.1	4399.4	4377.8	4372.8
10°	5426.1	5424.2	5297.1	5036.9	4734.4	4421.1	4155.1	3954.1	3836.8	3802.3	3793.5
12.5°	5577.9	5555.2	5311.8	4877.3	4397.5	3962.9	3626.0	3402.3	3280.1	3240.7	3230.8
15°	5734.5	5678.4	5275.4	4638.9	3983.6	3469.3	3115.6	2908.6	2842.6	2821.0	2817.0
17.5°	5880.4	5772.0	5170.9	4315.7	3511.7	2977.6	2701.7	2619.0	2634.7	2663.3	2664.3
20°	6023.2	5835.0	5003.4	3907.8	3014.1	2572.7	2479.1	2540.1	2615.0	2673.2	2681.0
22.5°	6164.1	5879.4	4787.6	3436.8	2568.7	2345.0	2411.1	2522.4	2608.1	2671.2	2682.0
25°	6282.4	5890.2	4490.1	2934.3	2259.3	2259.3	2378.5	2484.0	2568.7	2630.8	2641.6
27.5°	6325.7	5817.3	4070.3	2469.2	2103.6	2219.9	2333.2	2420.9	2492.8	2558.9	2570.7
30°	6342.5	5682.3	3585.6	2095.8	2039.6	2177.5	2272.1	2347.0	2415.0	2477.1	2487.9
32.5°	6345.4	5519.7	3071.2	1883.9	1995.3	2133.2	2196.3	2262.3	2335.2	2359.8	2363.8
35°	6364.1	5327.6	2529.3	1775.5	1953.9	2091.8	2142.1	2189.4	2071.1	2080.0	2087.9
37.5°	6418.3	5137.4	2076.1	1714.4	1927.3	2070.1	2130.3	1958.8	1866.2	1844.5	1841.6
40°	6519.8	4934.5	1740.1	1665.2	1917.4	2081.0	2054.4	1828.7	1669.1	1549.9	1532.2
42.5°	6660.7	4715.7	1525.3	1632.7	1924.3	2133.2	1949.0	1703.6	1438.6	1361.7	1351.9
45°	6819.4	4486.1	1409.0	1610.0	1948.0	2173.6	1927.3	1537.1	1331.2	1273.0	1268.1
47.5°	6973.1	4205.3	1348.9	1600.2	1980.5	2141.1	1835.6	1485.9	1279.9	1249.4	1252.3
50°	7149.4	3952.1	1312.4	1589.3	2009.1	2120.4	1732.2	1459.3	1260.2	1297.7	1337.1
52.5°	7298.2	3690.0	1279.9	1567.6	2019.9	2083.9	1705.6	1464.2	1260.2	1332.1	1369.6
55°	7474.6	3492.0	1242.5	1522.3	1999.2	1980.5	1686.9	1493.7	1275.0	1229.7	1233.6
57.5°	7702.2	3426.9	1201.1	1451.4	1930.2	1829.7	1678.0	1522.3	1266.1	1237.6	1247.4
60°	8017.5	3495.9	1184.3	1358.7	1822.8	1711.5	1679.0	1507.5	1204.1	1154.8	1155.8
62.5°	8318.0	3572.8	1183.4	1300.6	1690.8	1606.1	1656.3	1459.3	1172.5	1144.0	1154.8
65°	8416.6	3494.9	1136.1	1235.6	1542.0	1479.9	1614.9	1408.0	1148.9	1105.5	1103.6
67.5°	8284.5	3253.5	1040.5	1130.2	1371.6	1333.1	1560.7	1346.9	1111.4	1076.0	1070.1
70°	7892.4	2714.5	922.3	991.2	1177.5	1167.6	1475.0	1276.0	1061.2	1030.6	1005.0
72.5°	6837.1	1934.2	777.4	824.7	958.7	990.2	1356.8	1183.4	990.2	924.2	884.8
75°	5615.3	1431.7	638.5	648.3	728.1	813.9	1194.2	1075.0	906.5	794.2	763.6
77.5°	3438.7	875.9	508.4	512.4	522.2	649.3	983.3	953.8	800.1	662.1	640.5
80°	1113.4	477.9	367.5	386.2	356.7	475.9	760.7	811.9	686.8	553.7	530.1
82.5°	423.7	278.8	248.3	261.1	247.3	319.2	554.7	650.3	562.6	455.2	370.5
85°	204.9	157.7	146.8	164.5	152.7	163.6	354.7	478.9	426.6	296.6	275.9
87.5°	72.9	70.0	56.2	75.9	65.0	58.1	108.4	241.4	281.8	204.0	182.3
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)