

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: P317688

Luminaire Tested: **GAN-SA4C-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317688
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-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 24396 lumens
Efficiency: N/A
Efficacy: 108.4 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

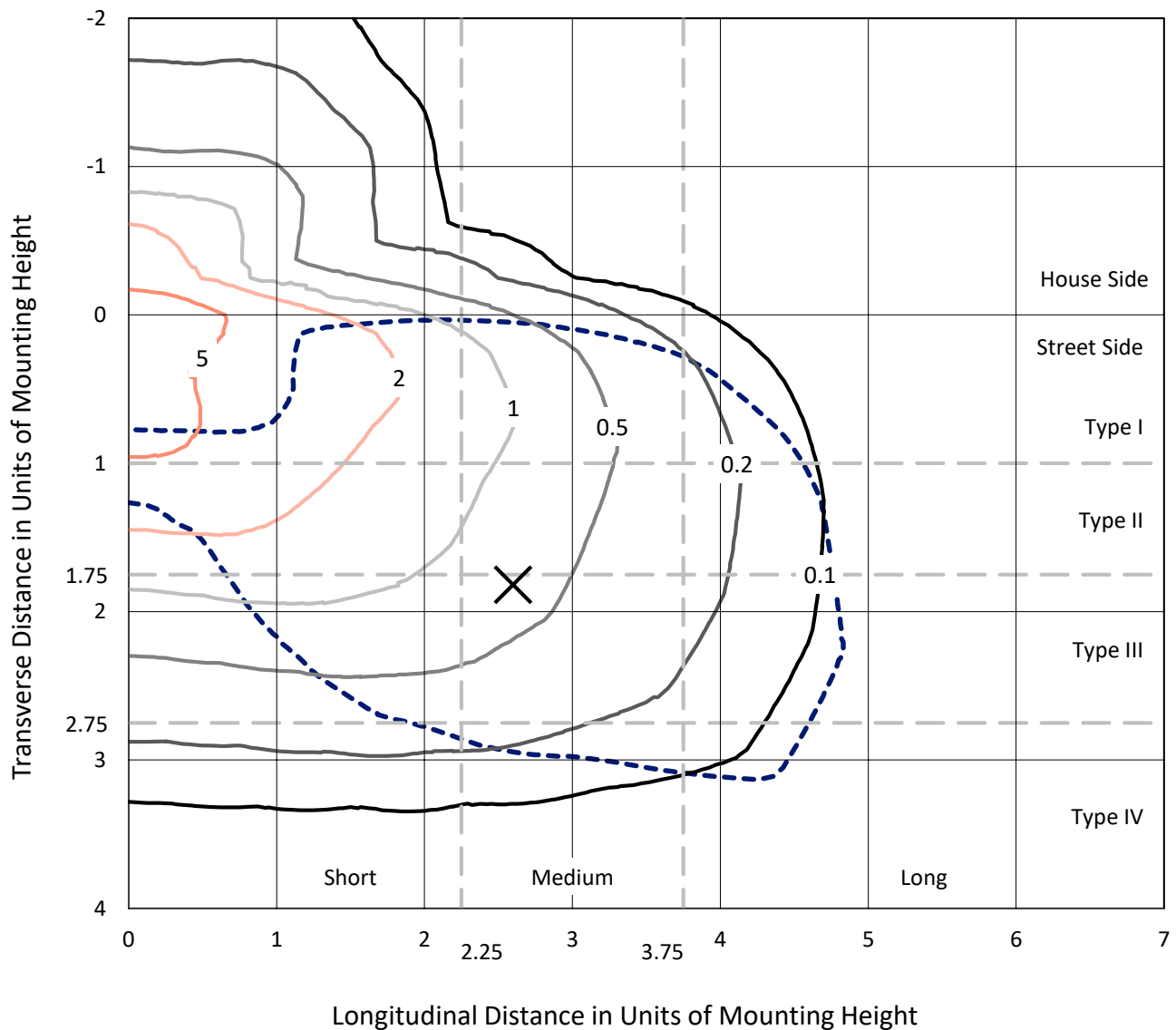


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Iso-Footcandle Lines of Horizontal Illumination

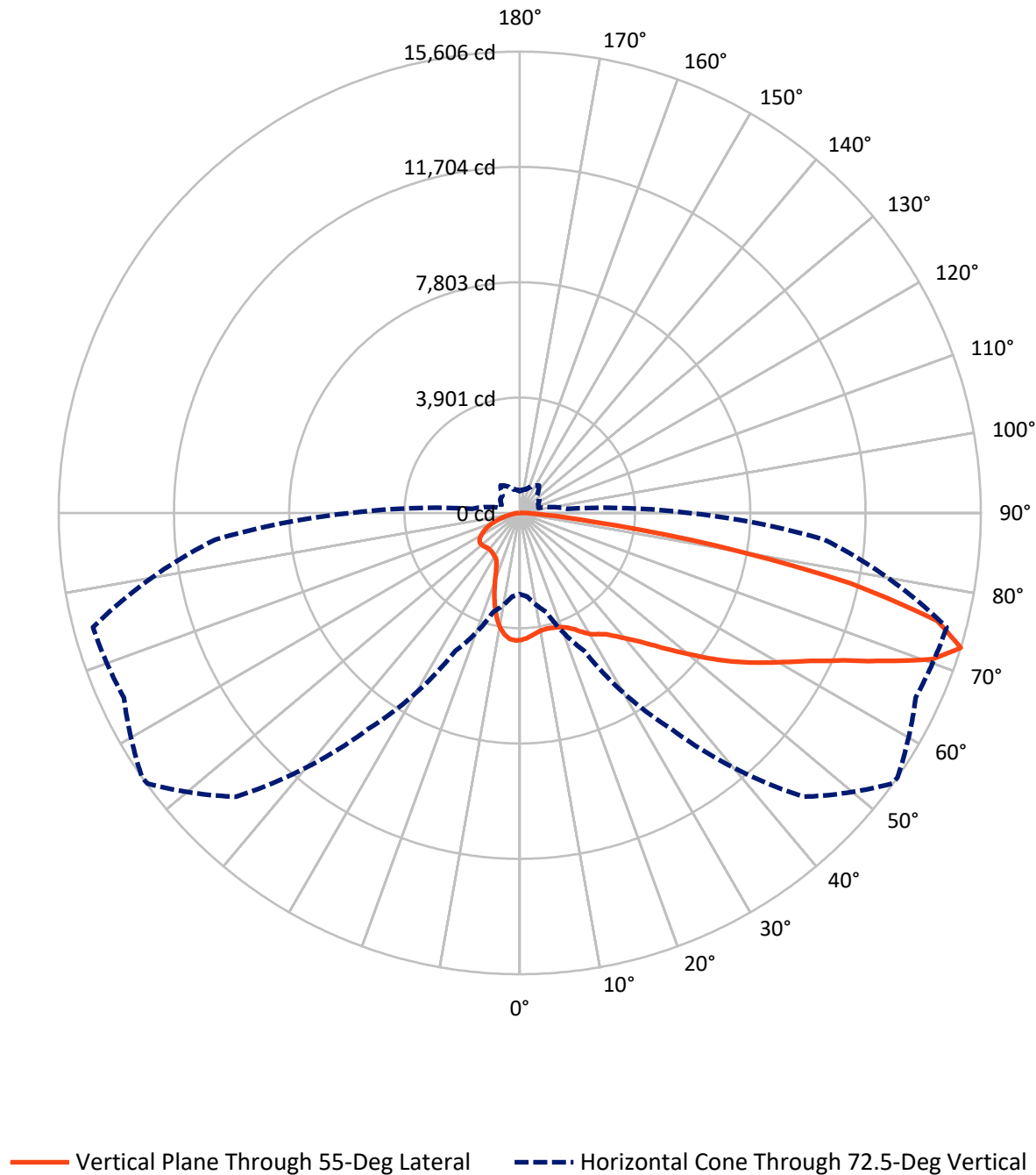
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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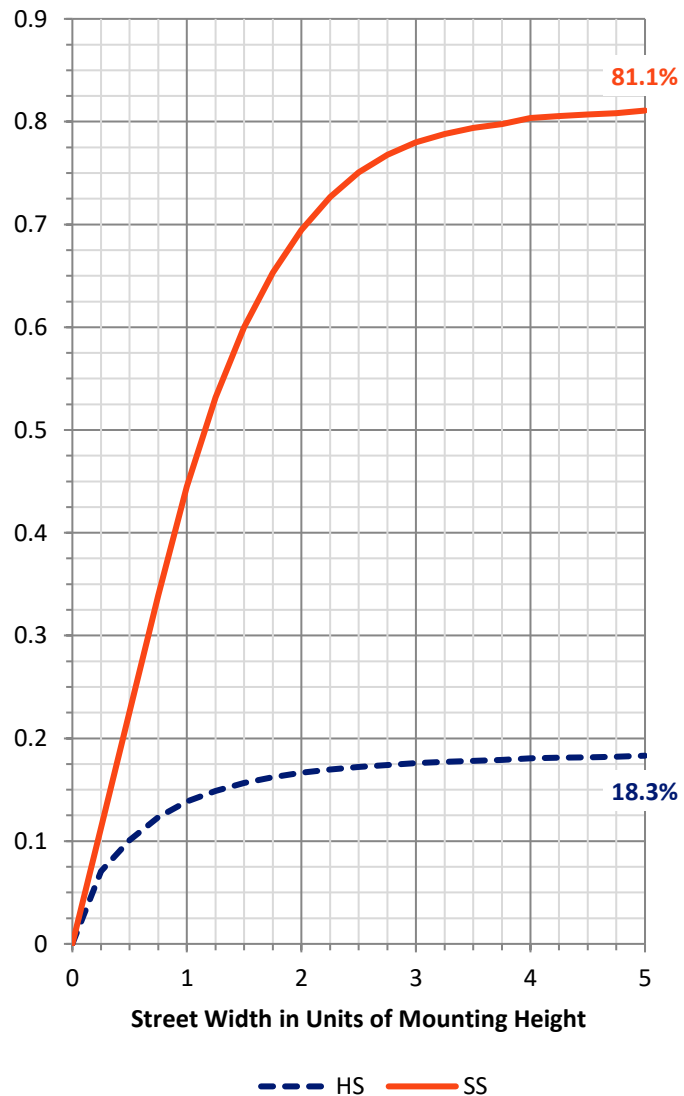
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4534.4	0.0	4534.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19861.6	0.0	19861.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	24396.0	0.0	24396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.4	1.6
10°-20°	1036.6	4.2
20°-30°	1709.1	7.0
30°-40°	2528.3	10.4
40°-50°	3528.9	14.5
50°-60°	4594.8	18.8
60°-70°	5646.8	23.1
70°-80°	4426.4	18.1
80°-90°	535.7	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°	24396.0	100.0
0°-180°	24396.0	100.0

Coefficient of Utilization



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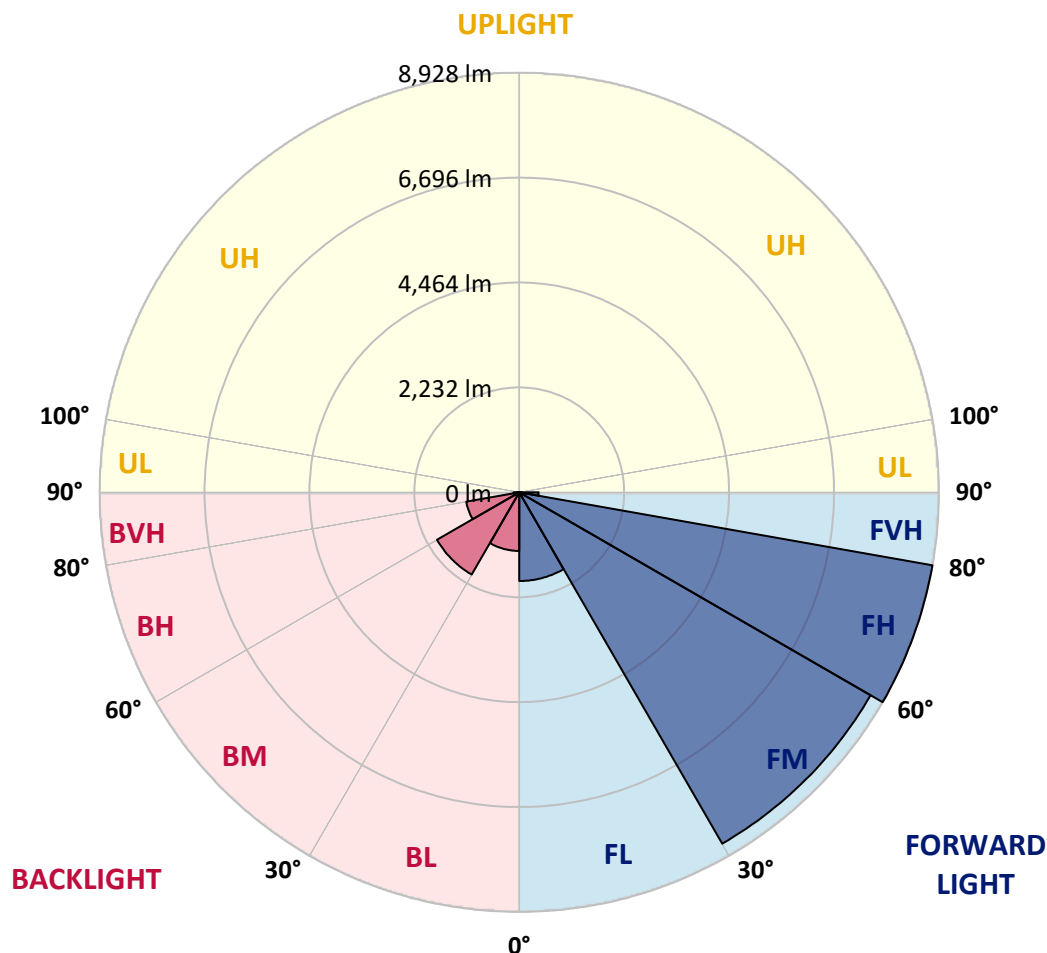
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1887.5	7.7			
FM	(30°-60°)	8631.8	35.4			
FH	(60°-80°)	8928.1	36.6			G4/12000
FVH	(80°-90°)	414.1	1.7			G3/500
BL	(0°-30°)	1247.6	5.1	B3/2500		
BM	(30°-60°)	2020.2	8.3	B2/2500		
BH	(60°-80°)	1145.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	121.5	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°	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9
2.5°	4162.8	4153.0	4165.3	4182.6	4201.6	4227.1	4242.0	4248.5	4274.1	4284.0	4305.4
5°	3970.0	3965.1	3985.7	4015.4	4057.4	4116.7	4164.5	4173.6	4241.1	4288.9	4332.6
7.5°	3830.0	3830.0	3853.8	3889.3	3936.2	4016.2	4083.7	4096.1	4210.6	4313.6	4394.4
10°	3718.7	3722.8	3750.8	3792.9	3848.1	3933.0	4022.8	4036.8	4202.4	4371.3	4499.9
12.5°	3644.6	3654.4	3680.0	3717.9	3786.3	3889.3	4003.0	4021.9	4219.7	4453.7	4626.8
15°	3691.5	3708.0	3710.5	3726.1	3764.0	3876.1	4014.5	4034.3	4256.8	4537.8	4771.0
17.5°	3897.5	3903.3	3877.7	3844.8	3826.7	3898.3	4049.1	4069.7	4301.3	4621.0	4909.4
20°	4210.6	4207.3	4152.1	4063.1	3970.9	3982.4	4106.0	4127.4	4361.4	4694.3	5047.8
22.5°	4606.2	4594.6	4509.8	4345.8	4188.4	4122.5	4205.7	4223.8	4452.1	4799.0	5196.1
25°	5085.7	5060.2	4948.1	4728.1	4496.6	4326.8	4355.7	4373.0	4583.9	4916.0	5332.1
27.5°	5591.7	5566.1	5423.6	5157.4	4849.2	4584.7	4562.5	4577.3	4733.9	5002.5	5432.6
30°	6120.7	6093.5	5963.3	5665.0	5223.3	4851.7	4755.3	4761.1	4839.4	5049.5	5515.0
32.5°	6652.2	6626.6	6480.8	6134.7	5629.6	5138.5	4894.6	4887.1	4902.8	5098.1	5608.1
35°	7191.1	7200.9	7030.4	6647.2	6079.5	5457.4	5059.4	5043.7	5009.1	5197.8	5740.0
37.5°	7767.9	7761.3	7540.4	7140.0	6550.0	5803.4	5295.8	5293.4	5173.9	5386.5	5946.8
40°	8153.5	8157.6	8023.3	7644.3	7025.4	6186.6	5599.1	5593.3	5436.8	5669.1	6217.9
42.5°	8304.3	8331.5	8366.1	8125.5	7523.1	6630.7	5960.8	5952.6	5803.4	6074.5	6536.8
45°	8315.0	8369.4	8583.6	8553.1	8027.4	7139.1	6423.1	6400.0	6292.9	6613.4	6917.5
47.5°	8222.7	8278.7	8634.7	8807.7	8478.1	7675.6	6963.6	6945.5	6853.2	7287.5	7329.5
50°	8020.8	8074.4	8529.2	8932.2	8848.9	8191.4	7586.6	7538.8	7489.3	8066.1	7800.8
52.5°	7642.6	7745.6	8388.3	8961.8	9070.6	8649.5	8241.7	8210.3	8237.5	8887.7	8273.0
55°	6746.9	6862.3	8024.9	8937.1	9234.6	9034.3	8896.7	8895.1	9036.0	9749.6	8779.7
57.5°	6245.1	6326.7	7285.0	8895.1	9429.0	9416.7	9545.2	9560.9	9835.3	10688.1	9310.4
60°	5961.6	6047.3	6910.1	8739.3	9730.6	9911.1	10206.9	10238.2	10647.7	11727.2	9949.0
62.5°	5703.7	5797.7	6677.7	8422.1	10085.8	10618.1	10999.6	11027.6	11508.0	12795.1	10566.2
65°	5262.9	5369.2	6337.4	8213.6	10408.8	11540.1	12007.3	12026.3	12496.0	13914.1	11038.3
67.5°	4639.9	4737.2	5695.5	7753.0	10647.7	12659.9	13347.2	13357.9	13475.7	14704.3	11279.7
70°	3912.4	3949.4	4780.8	6802.1	10365.1	13707.2	14815.5	14818.0	14368.9	15210.2	11240.2
72.5°	2748.9	2836.2	3470.7	5149.2	8907.4	13579.5	15577.7	15605.7	14784.2	14954.8	10342.0
75°	1685.9	1778.2	2177.0	3120.5	5651.0	10679.9	14392.8	14587.3	14005.5	13334.0	8448.5
77.5°	1127.2	1161.8	1420.6	1819.4	2560.2	6144.6	11065.5	11431.4	11634.9	9724.0	5403.0
80°	628.7	694.6	941.8	1130.5	1138.8	2441.5	6634.9	6720.5	6473.3	3872.0	1667.0
82.5°	332.9	369.2	628.7	664.1	621.3	817.4	2472.8	2475.3	2068.2	1038.2	495.2
85°	257.9	288.4	431.0	405.4	317.2	362.6	815.8	860.3	703.7	425.2	161.5
87.5°	128.5	159.9	292.5	257.1	124.4	103.8	291.7	311.5	277.7	166.4	58.5
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°	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9	4302.9
2.5°	4313.6	4321.1	4330.1	4320.2	4316.9	4303.8	4281.5	4276.6	4265.0	4265.8	4272.4
5°	4351.5	4363.9	4359.0	4321.1	4275.7	4212.3	4146.4	4090.3	4053.3	4050.8	4048.3
7.5°	4424.1	4432.3	4393.6	4285.6	4158.7	4012.1	3873.6	3752.5	3679.2	3661.0	3656.9
10°	4537.8	4536.1	4429.8	4212.3	3959.3	3697.3	3474.8	3306.7	3208.7	3179.8	3172.4
12.5°	4664.7	4645.7	4442.2	4078.8	3677.5	3314.1	3032.3	2845.3	2743.1	2710.1	2701.9
15°	4795.7	4748.7	4411.7	3879.4	3331.4	2901.3	2605.5	2432.4	2377.2	2359.1	2355.8
17.5°	4917.6	4827.0	4324.4	3609.1	2936.7	2490.1	2259.4	2190.2	2203.4	2227.3	2228.1
20°	5037.1	4879.7	4184.3	3268.0	2520.6	2151.5	2073.2	2124.3	2186.9	2235.5	2242.1
22.5°	5154.9	4916.8	4003.8	2874.1	2148.2	1961.1	2016.3	2109.4	2181.1	2233.9	2242.9
25°	5253.8	4925.9	3755.0	2453.9	1889.4	1889.4	1989.1	2077.3	2148.2	2200.1	2209.1
27.5°	5290.1	4864.9	3403.9	2064.9	1759.2	1856.5	1951.2	2024.6	2084.7	2139.9	2149.8
30°	5304.1	4752.0	2998.5	1752.6	1705.7	1821.0	1900.1	1962.8	2019.6	2071.5	2080.6
32.5°	5306.6	4616.0	2568.4	1575.5	1668.6	1784.0	1836.7	1891.9	1952.9	1973.5	1976.8
35°	5322.2	4455.4	2115.2	1484.8	1634.0	1749.4	1791.4	1830.9	1732.0	1739.5	1746.1
37.5°	5367.5	4296.3	1736.2	1433.8	1611.7	1731.2	1781.5	1638.1	1560.7	1542.5	1540.1
40°	5452.4	4126.6	1455.2	1392.6	1603.5	1740.3	1718.0	1529.3	1395.9	1296.2	1281.3
42.5°	5570.2	3943.7	1275.6	1365.4	1609.3	1784.0	1629.9	1424.7	1203.0	1138.8	1130.5
45°	5702.9	3751.7	1178.3	1346.4	1629.0	1817.7	1611.7	1285.4	1113.2	1064.6	1060.5
47.5°	5831.5	3516.8	1128.1	1338.2	1656.2	1790.6	1535.1	1242.6	1070.4	1044.8	1047.3
50°	5978.9	3305.1	1097.6	1329.1	1680.1	1773.2	1448.6	1220.3	1053.9	1085.2	1118.2
52.5°	6103.4	3085.9	1070.4	1311.0	1689.2	1742.8	1426.3	1224.5	1053.9	1114.0	1145.4
55°	6250.9	2920.3	1039.1	1273.1	1671.9	1656.2	1410.7	1249.2	1066.3	1028.4	1031.6
57.5°	6441.2	2865.9	1004.5	1213.8	1614.2	1530.2	1403.3	1273.1	1058.8	1034.9	1043.2
60°	6704.9	2923.6	990.4	1136.3	1524.4	1431.3	1404.1	1260.7	1006.9	965.7	966.6
62.5°	6956.2	2987.8	989.6	1087.7	1414.0	1343.1	1385.1	1220.3	980.6	956.7	965.7
65°	7038.6	2922.7	950.1	1033.3	1289.6	1237.6	1350.5	1177.5	960.8	924.5	922.9
67.5°	6928.2	2720.8	870.1	945.1	1147.0	1114.9	1305.2	1126.4	929.5	899.8	894.9
70°	6600.2	2270.1	771.3	828.9	984.7	976.4	1233.5	1067.1	887.4	861.9	840.5
72.5°	5717.7	1617.5	650.1	689.7	801.8	828.1	1134.6	989.6	828.1	772.9	740.0
75°	4696.0	1197.3	534.0	542.2	608.9	680.6	998.7	899.0	758.1	664.1	638.6
77.5°	2875.8	732.5	425.2	428.5	436.7	543.0	822.4	797.6	669.1	553.7	535.6
80°	931.1	399.6	307.4	323.0	298.3	398.0	636.1	679.0	574.3	463.1	443.3
82.5°	354.3	233.2	207.6	218.4	206.8	267.0	463.9	543.8	470.5	380.7	309.8
85°	171.4	131.8	122.8	137.6	127.7	136.8	296.6	400.5	356.8	248.0	230.7
87.5°	61.0	58.5	47.0	63.4	54.4	48.6	90.6	201.9	235.7	170.6	152.4
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)