

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: P318522

Luminaire Tested: **GAN-SA8B-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33675 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

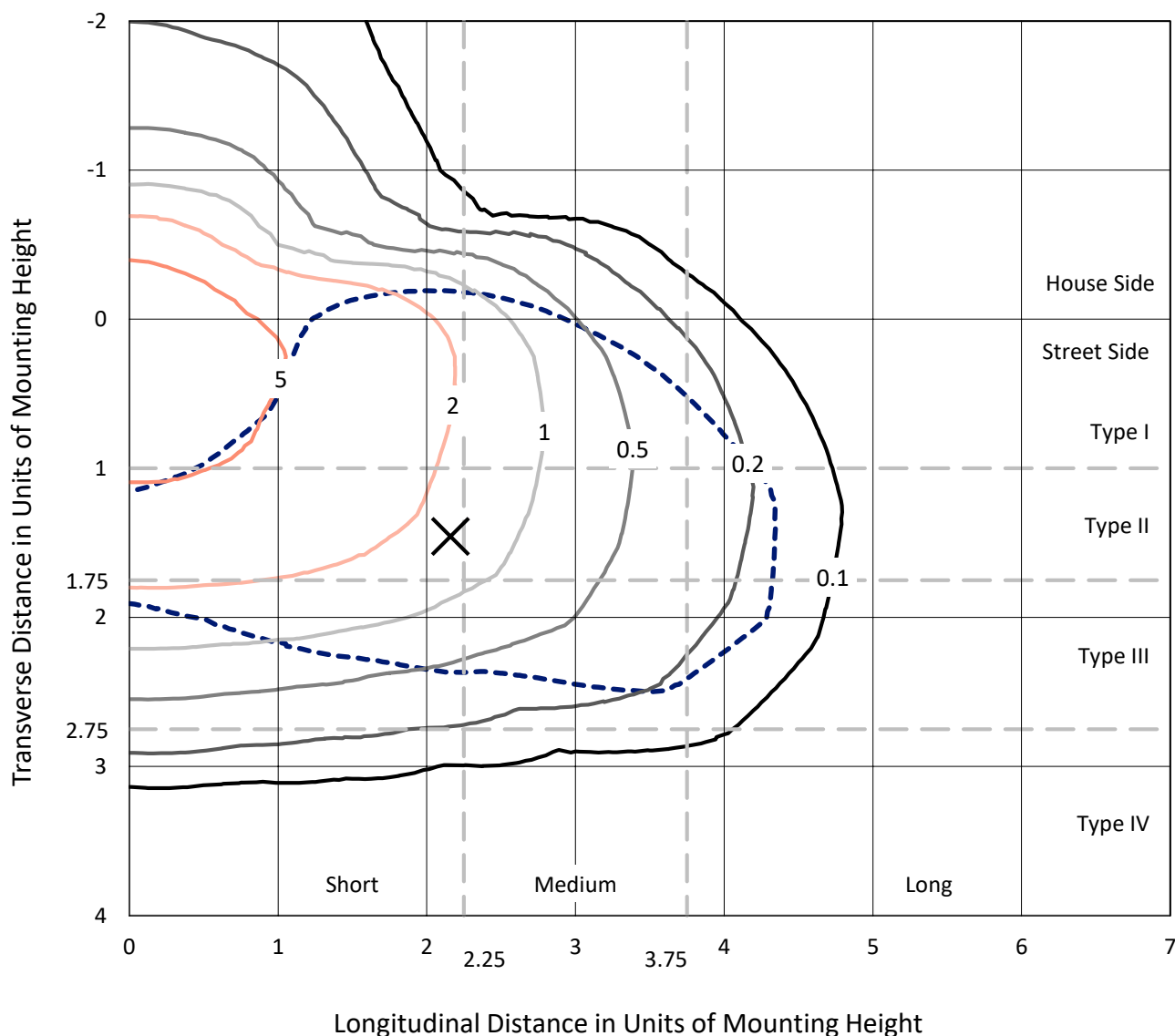
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

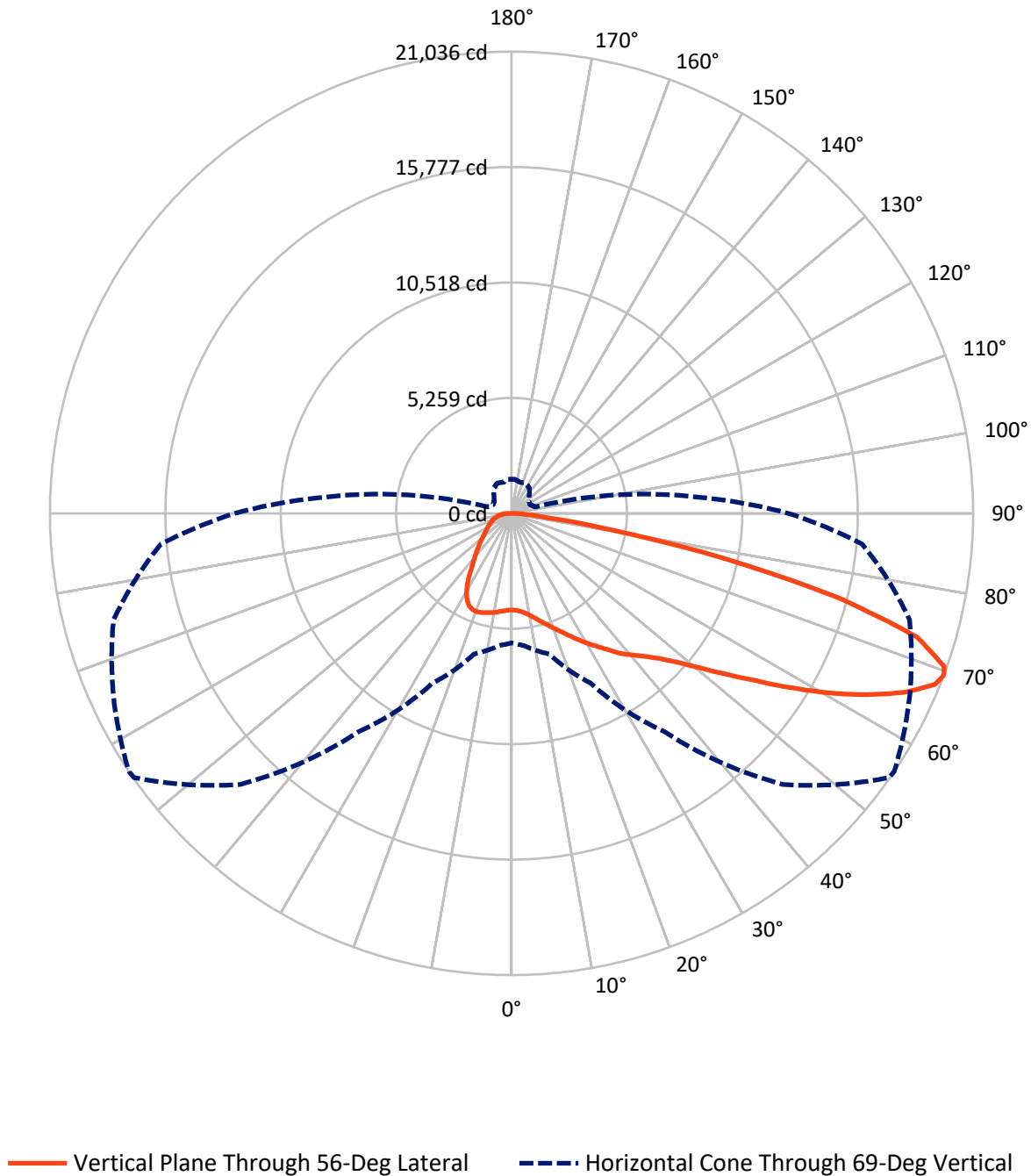
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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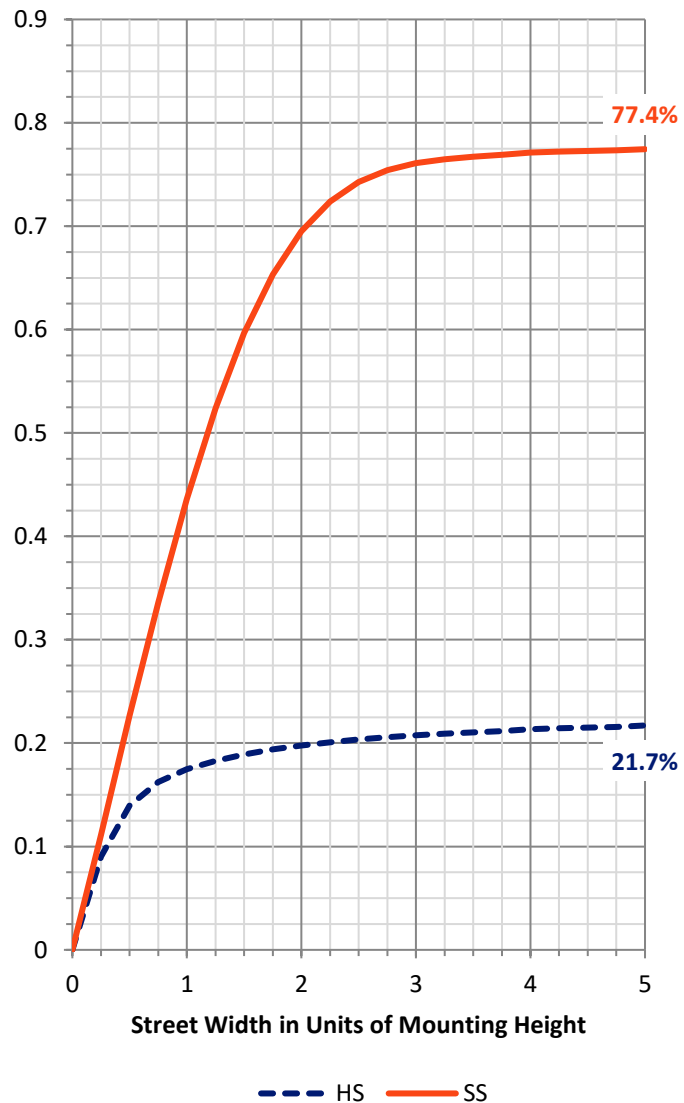
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7499.4	0.0	7499.4
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	26175.6	0.0	26175.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	33675.0	0.0	33675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.4	1.3
10°-20°	1390.4	4.1
20°-30°	2427.1	7.2
30°-40°	3486.5	10.4
40°-50°	4825.1	14.3
50°-60°	7069.4	21.0
60°-70°	8619.0	25.6
70°-80°	4765.1	14.2
80°-90°	660.0	2.0
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°	33675.0	100.0
0°-180°	33675.0	100.0

Coefficient of Utilization



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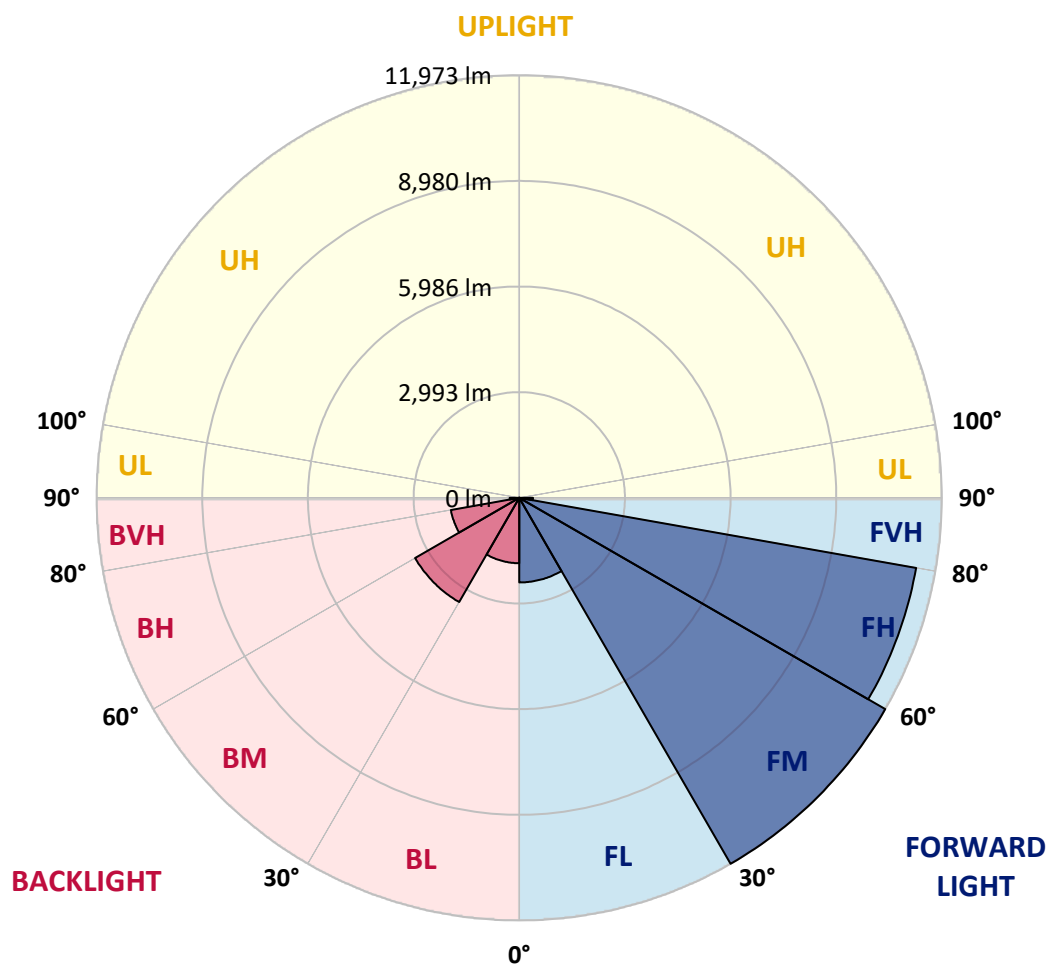
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2396.7	7.1			
FM	(30°-60°)	11972.7	35.6			
FH	(60°-80°)	11417.5	33.9			G4/12000
FVH	(80°-90°)	388.7	1.2			G3/500
BL	(0°-30°)	1853.3	5.5	B3/2500		
BM	(30°-60°)	3408.3	10.1	B3/5000		
BH	(60°-80°)	1966.6	5.8	B3/2500		G3/2500
BVH	(80°-90°)	271.2	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4430.3	4435.0	4431.5	4440.8	4430.3	4437.3	4431.5	4431.5	4428.0	4417.6	4406.0
5°	4499.9	4509.2	4503.4	4512.7	4499.9	4502.3	4491.8	4491.8	4481.4	4459.3	4436.1
7.5°	4609.0	4619.4	4614.8	4624.1	4606.7	4606.7	4592.8	4591.6	4570.7	4534.7	4508.1
10°	4738.9	4752.8	4748.2	4762.1	4748.2	4752.8	4738.9	4738.9	4711.1	4660.0	4626.4
12.5°	4928.0	4945.4	4932.7	4931.5	4925.7	4935.0	4923.4	4921.1	4895.5	4825.9	4779.5
15°	5180.9	5199.5	5172.8	5170.5	5138.0	5134.5	5134.5	5131.0	5114.8	5031.3	4954.7
17.5°	5472.1	5477.9	5454.7	5417.6	5375.8	5349.1	5345.6	5354.9	5354.9	5257.5	5135.7
20°	5757.5	5767.9	5749.4	5707.6	5654.2	5614.8	5586.9	5605.5	5604.3	5488.3	5315.5
22.5°	6068.4	6092.7	6064.9	6011.5	5948.9	5904.8	5856.1	5872.3	5873.5	5730.8	5491.8
25°	6470.9	6448.9	6431.5	6356.1	6266.7	6221.5	6176.3	6192.5	6187.9	5991.8	5673.9
27.5°	6827.1	6831.7	6808.5	6728.5	6625.2	6525.4	6523.1	6533.6	6516.2	6263.3	5845.6
30°	7241.2	7243.5	7211.1	7139.1	7026.6	6897.8	6867.7	6885.1	6847.9	6520.8	6026.6
32.5°	7653.0	7664.6	7628.7	7541.7	7451.2	7294.6	7234.3	7245.9	7153.0	6784.1	6213.4
35°	8013.8	8030.1	8018.5	7960.5	7861.9	7727.3	7655.4	7648.4	7533.6	7106.6	6460.5
37.5°	8381.6	8396.7	8383.9	8335.2	8295.7	8153.0	8114.8	8114.8	7915.2	7436.1	6774.9
40°	8759.8	8783.0	8767.9	8700.6	8666.9	8602.0	8510.3	8488.3	8272.5	7831.7	7287.6
42.5°	9111.3	9141.4	9201.7	9162.3	9093.9	9103.1	8918.7	8907.1	8749.3	8416.4	7931.5
45°	9610.1	9654.2	9756.3	9726.1	9712.2	9661.1	9441.9	9431.4	9371.1	9202.9	8730.8
47.5°	10154.2	10214.5	10398.9	10404.7	10554.4	10458.1	10160.0	10124.0	10137.9	10144.9	9706.4
50°	10655.3	10721.4	11024.2	11166.9	11519.6	11540.5	11063.7	11031.2	11085.7	11245.8	10843.3
52.5°	11055.6	11139.1	11517.3	11958.1	12562.5	12734.2	12176.2	12151.8	12192.4	12468.5	12128.6
55°	11349.1	11439.5	11851.4	12654.1	13619.3	13922.1	13456.9	13433.7	13459.2	13810.7	13526.5
57.5°	11417.5	11439.5	12037.0	13122.8	14511.4	15238.8	15024.2	14977.8	14852.5	15158.8	15069.4
60°	11096.2	11184.3	11883.8	13287.5	15201.7	16536.9	16662.2	16604.2	16252.7	16503.3	16431.4
62.5°	10444.2	10602.0	11311.9	13037.0	15472.0	17597.2	18268.9	18199.3	17593.8	17756.2	17410.5
65°	9379.2	9446.5	10192.5	12172.7	15128.6	18275.9	19701.6	19666.8	18904.6	18650.6	17591.4
67.5°	7474.4	7600.8	8234.2	10366.5	13723.7	18195.8	20809.5	20806.0	19760.8	18982.4	16949.9
69°	5904.8	6035.9	6639.1	8539.3	12143.7	17463.8	20995.1	21035.7	20002.1	18780.5	16033.5
70°	4707.6	4859.6	5273.7	7192.5	10741.2	16498.6	20840.8	20913.9	19955.7	18447.6	15187.8
72.5°	2003.5	2126.4	2421.1	3707.6	6546.3	12320.0	19055.5	19331.6	18880.3	16883.8	12552.1
75°	874.7	913.0	1046.4	1511.6	2906.0	6705.3	14927.9	15438.3	16143.7	14271.3	9350.2
77.5°	640.4	656.6	729.7	887.5	1303.9	2532.5	9599.7	9896.6	11642.6	10385.0	5735.4
80°	495.4	507.0	563.8	652.0	851.5	1024.3	4378.1	4633.4	6546.3	5334.0	2388.6
82.5°	394.4	402.5	442.0	480.3	588.2	620.6	1453.6	1612.5	2416.4	1473.3	632.2
85°	366.6	375.9	389.8	350.3	377.0	364.3	628.8	657.8	729.7	578.9	264.5
87.5°	165.9	196.1	386.3	272.6	200.7	160.1	257.5	269.1	302.8	303.9	117.2
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°	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5	4402.5
2.5°	4412.9	4409.5	4415.3	4401.3	4418.7	4417.6	4411.8	4414.1	4425.7	4424.5	4425.7
5°	4439.6	4437.3	4444.3	4433.8	4454.7	4461.7	4462.8	4473.3	4486.0	4489.5	4489.5
7.5°	4506.9	4506.9	4510.4	4496.5	4510.4	4509.2	4503.4	4513.9	4526.6	4527.8	4526.6
10°	4622.9	4624.1	4618.3	4582.3	4570.7	4539.4	4510.4	4511.5	4527.8	4540.5	4544.0
12.5°	4769.1	4764.4	4738.9	4672.8	4624.1	4560.3	4530.1	4528.9	4545.2	4555.6	4559.1
15°	4936.1	4923.4	4857.3	4749.4	4663.5	4600.9	4552.1	4540.5	4531.3	4519.7	4520.8
17.5°	5093.9	5064.9	4954.7	4805.0	4714.6	4631.0	4537.1	4461.7	4409.5	4379.3	4370.0
20°	5254.0	5197.2	5038.2	4857.3	4742.4	4590.4	4409.5	4256.3	4161.2	4117.1	4109.0
22.5°	5400.2	5308.5	5115.9	4911.8	4720.4	4453.5	4169.3	3946.6	3814.3	3755.2	3759.8
25°	5542.9	5415.2	5197.2	4950.1	4609.0	4212.2	3835.2	3561.4	3408.3	3342.2	3339.9
27.5°	5668.1	5523.1	5285.3	4918.7	4401.3	3868.9	3439.6	3172.8	3045.2	2988.4	2979.1
30°	5812.0	5658.9	5402.5	4799.2	4097.4	3472.1	3053.3	2865.4	2774.9	2718.1	2707.6
32.5°	5987.2	5843.3	5498.8	4582.3	3708.8	3058.0	2751.7	2620.6	2538.3	2474.4	2462.8
35°	6242.4	6086.9	5523.1	4271.4	3281.9	2730.8	2530.1	2395.6	2284.2	2201.8	2193.7
37.5°	6562.6	6392.0	5467.5	3868.9	2867.7	2518.5	2345.7	2179.8	2034.8	1918.8	1900.2
40°	7024.3	6766.7	5313.2	3404.8	2562.6	2355.0	2165.9	1976.8	1797.0	1661.2	1634.6
42.5°	7578.8	7206.4	5076.5	2943.1	2338.7	2189.1	1987.2	1752.9	1581.2	1484.9	1471.0
45°	8284.1	7663.5	4748.2	2539.4	2118.3	2023.2	1794.6	1578.9	1472.1	1401.4	1389.8
47.5°	9089.2	8176.2	4403.7	2211.1	1931.5	1867.7	1640.4	1501.1	1416.5	1360.8	1350.3
50°	10078.8	8755.1	4038.2	1942.0	1743.6	1681.0	1567.3	1458.2	1390.9	1348.0	1337.6
52.5°	11194.8	9408.2	3774.9	1729.7	1588.1	1542.9	1529.0	1435.0	1380.5	1348.0	1337.6
55°	12396.6	10073.0	3490.7	1551.0	1453.6	1466.3	1503.5	1437.3	1400.2	1360.8	1345.7
57.5°	13599.6	10759.7	3174.0	1400.2	1346.9	1409.5	1486.1	1442.0	1410.7	1372.4	1358.5
60°	14550.9	11194.8	2683.3	1273.8	1262.2	1346.9	1444.3	1407.2	1366.6	1367.7	1365.4
62.5°	14995.2	11171.6	2141.5	1161.2	1177.5	1262.2	1377.0	1352.7	1319.0	1364.3	1367.7
65°	14745.8	10614.7	1667.0	1059.2	1087.0	1174.0	1307.4	1326.0	1337.6	1424.6	1436.2
67.5°	13699.4	9531.2	1291.2	969.8	1004.6	1113.7	1314.4	1444.3	1459.4	1551.0	1549.9
69°	12617.0	8515.0	1121.8	923.4	964.0	1128.8	1404.9	1519.7	1462.9	1560.3	1546.4
70°	11709.8	7711.0	1031.3	892.1	945.5	1155.4	1465.2	1518.5	1445.5	1529.0	1505.8
72.5°	9018.5	5547.5	874.7	834.1	882.8	1105.6	1482.6	1484.9	1404.9	1421.1	1381.7
75°	6185.5	3505.8	763.3	755.2	787.7	996.5	1426.9	1418.8	1299.3	1276.1	1243.6
77.5°	3410.6	1780.7	648.5	679.8	701.8	882.8	1297.0	1285.4	1186.8	1138.0	1126.4
80°	1315.5	779.6	547.6	604.4	618.3	764.5	1136.9	1126.4	1044.1	981.4	964.0
82.5°	496.5	408.3	452.4	523.2	518.6	631.1	962.9	957.1	877.0	785.4	757.5
85°	229.7	244.8	358.5	431.5	397.9	467.5	770.3	780.7	683.3	574.2	574.2
87.5°	97.4	136.9	254.1	326.0	268.0	315.5	565.0	539.4	495.4	343.4	322.5
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)