

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: P318962

Luminaire Tested: **GAN-SA8B-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38034 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

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

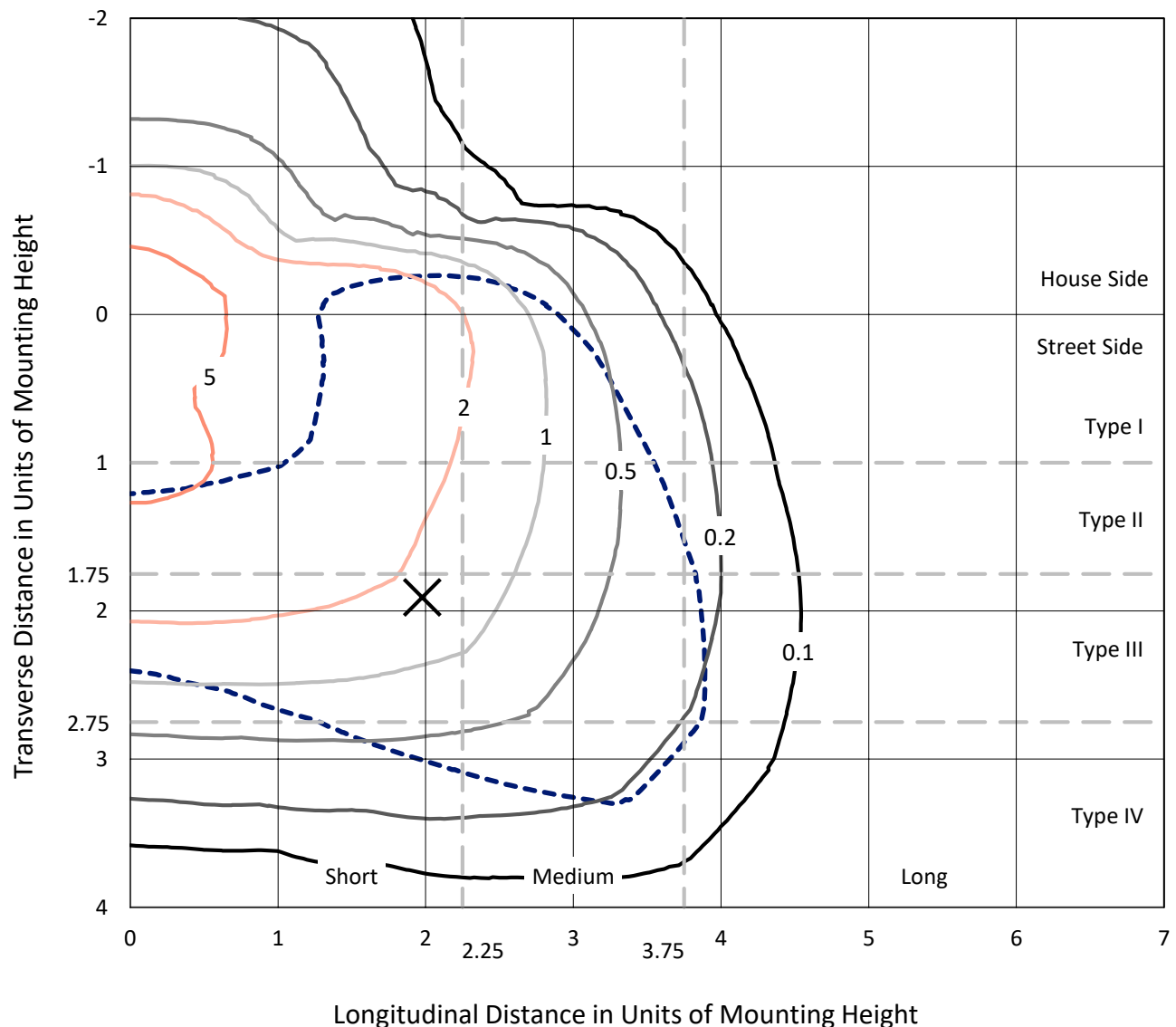


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Iso-Footcandle Lines of Horizontal Illumination

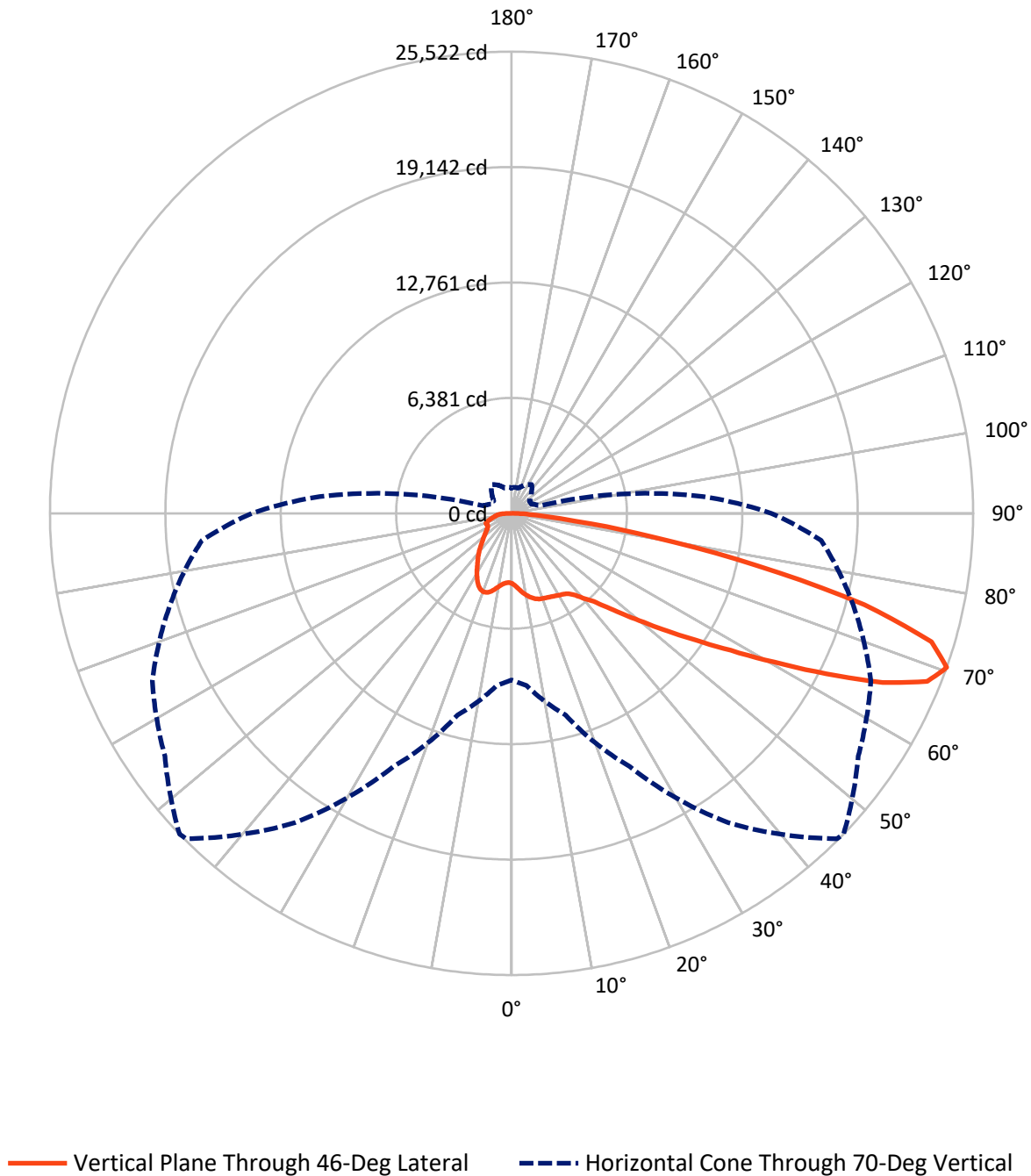
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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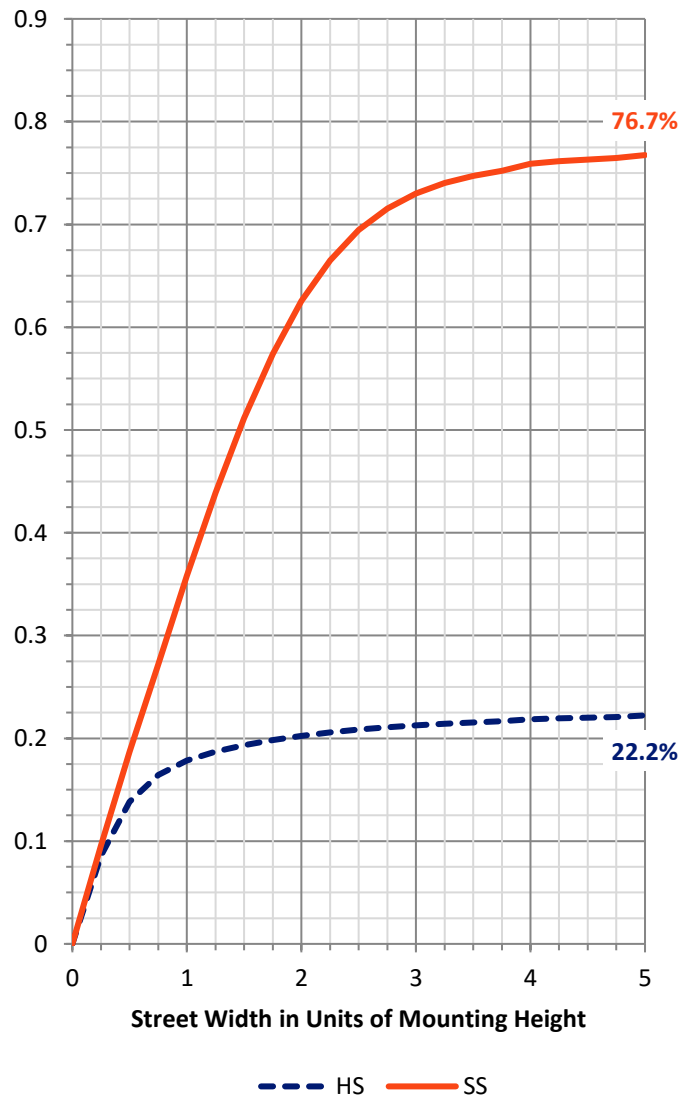
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8717.3	0.0	8717.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	29316.7	0.0	29316.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	38034.0	0.0	38034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.0	1.0
10°-20°	1316.1	3.5
20°-30°	2194.4	5.8
30°-40°	3114.0	8.2
40°-50°	4580.6	12.0
50°-60°	7757.2	20.4
60°-70°	11011.1	29.0
70°-80°	6689.4	17.6
80°-90°	976.2	2.6
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°	38034.0	100.0
0°-180°	38034.0	100.0

Coefficient of Utilization



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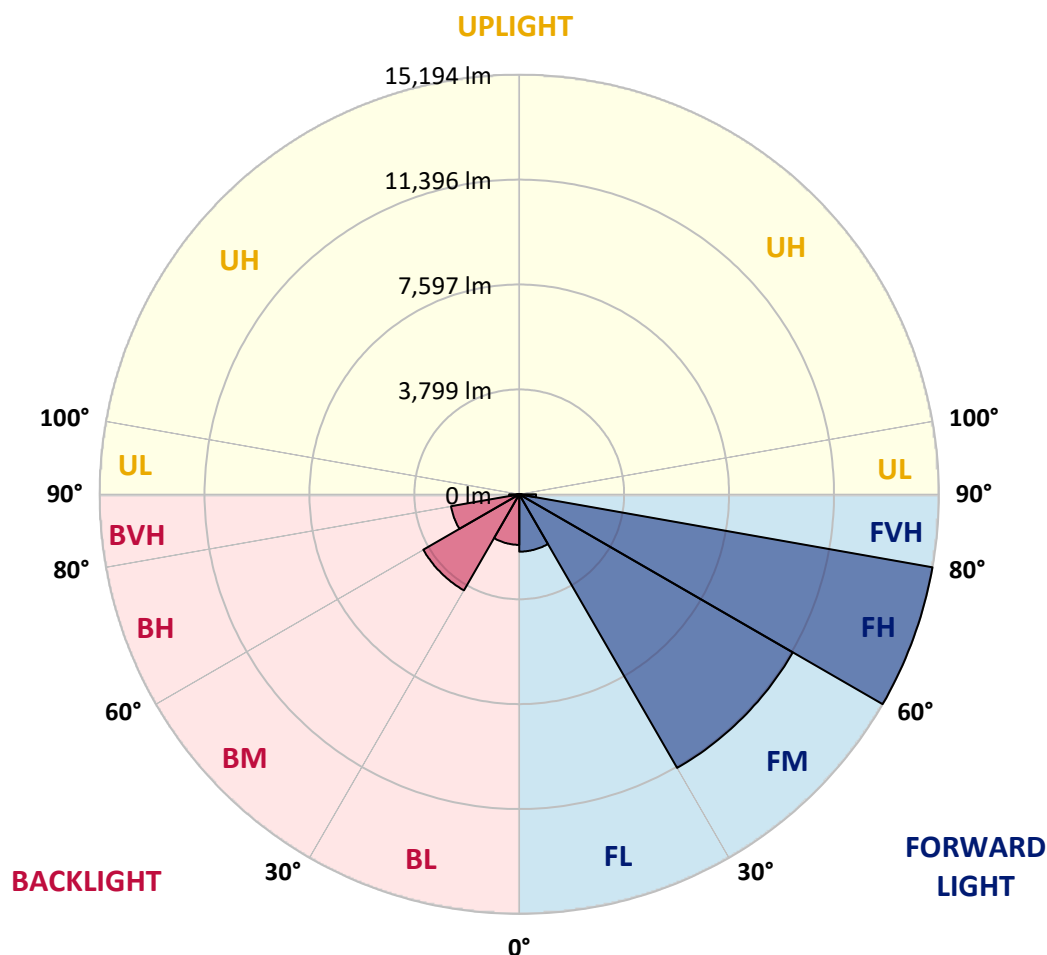
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2075.3	5.5			
FM	(30°-60°)	11438.9	30.1			
FH	(60°-80°)	15194.4	39.9			G5
FVH	(80°-90°)	608.1	1.6			G4/750
BL	(0°-30°)	1830.2	4.8	B3/2500		
BM	(30°-60°)	4012.8	10.6	B3/5000		
BH	(60°-80°)	2506.1	6.6	B4/5000		G4/5000
BVH	(80°-90°)	368.1	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9
2.5°	4068.9	4071.5	4076.7	4063.7	4027.2	4016.8	4012.9	3975.1	3950.4	3914.0	3882.7
5°	4394.3	4396.9	4389.1	4352.6	4271.9	4212.0	4206.8	4120.9	4042.8	3959.5	3897.0
7.5°	4734.0	4737.9	4713.2	4644.2	4530.9	4426.8	4420.3	4303.2	4184.7	4058.4	3964.7
10°	5034.7	5019.0	4978.7	4882.4	4748.3	4620.7	4615.5	4493.2	4356.5	4204.2	4079.3
12.5°	5235.1	5222.1	5170.0	5052.9	4905.8	4788.7	4778.2	4665.0	4532.2	4365.6	4215.9
15°	5345.7	5354.9	5284.6	5151.8	5008.6	4909.7	4900.6	4819.9	4701.4	4533.5	4361.7
17.5°	5360.1	5367.9	5300.2	5168.7	5051.6	4983.9	4980.0	4926.6	4840.7	4679.3	4499.7
20°	5276.8	5282.0	5226.0	5118.0	5041.2	5020.3	5019.0	4995.6	4931.8	4788.7	4614.2
22.5°	5155.7	5159.6	5119.3	5041.2	5015.1	5047.7	5056.8	5047.7	5002.1	4868.1	4704.1
25°	5125.8	5123.2	5081.5	5002.1	5024.2	5093.2	5105.0	5108.9	5077.6	4960.5	4818.6
27.5°	5270.3	5261.1	5181.7	5054.2	5068.5	5151.8	5167.4	5205.2	5185.7	5082.8	4948.8
30°	5688.1	5672.5	5509.8	5252.0	5181.7	5224.7	5244.2	5304.1	5308.0	5222.1	5121.9
32.5°	6393.6	6374.0	6082.5	5621.7	5373.1	5298.9	5317.1	5406.9	5455.1	5388.7	5280.7
35°	7285.2	7263.0	6880.4	6250.4	5693.3	5440.8	5453.8	5525.4	5621.7	5528.0	5384.8
37.5°	8214.5	8161.2	7792.8	6989.7	6202.2	5744.0	5744.0	5753.2	5798.7	5603.5	5507.2
40°	9138.7	9085.3	8752.1	7859.2	6860.8	6221.7	6191.8	5990.1	5953.6	5785.7	5753.2
42.5°	9997.7	9982.1	9785.6	8841.9	7634.0	6691.6	6650.0	6307.6	6315.5	6211.3	6212.6
45°	10911.5	10911.5	10751.4	9833.7	8534.7	7446.6	7404.9	6901.2	6979.3	6931.1	7047.0
47.5°	11657.3	11680.7	11658.6	10867.2	9582.5	8405.9	8330.4	7723.8	7942.5	8107.8	8444.9
50°	12418.7	12455.2	12459.1	12000.9	10849.0	9546.1	9460.2	8815.9	9304.0	9777.8	10440.3
52.5°	13523.8	13605.8	13279.1	13132.0	12400.5	10899.8	10815.2	10220.3	11035.1	11700.3	12841.8
55°	14548.2	14476.6	14243.6	14334.7	14061.4	12440.9	12377.1	11855.1	12964.1	13828.4	15310.9
57.5°	15102.7	15097.5	15331.8	15722.3	15852.4	14341.2	14287.9	13780.2	15139.1	15788.6	17629.1
60°	15753.5	15762.6	16343.1	17229.5	17765.8	16707.6	16684.2	16298.9	17251.7	17618.7	19447.5
62.5°	15844.6	16008.6	17008.3	18533.8	19556.8	19472.2	19524.3	18567.6	19141.6	19079.1	20805.1
65°	14796.8	15012.9	16822.1	18928.1	21337.4	22495.9	22544.0	20849.3	20632.0	20327.4	21290.6
67.5°	12649.1	12969.3	14934.8	18070.4	21924.5	24730.8	24798.4	22618.2	21868.5	20750.4	20121.7
70°	9205.1	9560.4	11538.9	15433.3	20878.0	25445.4	25522.1	23400.5	21915.4	19546.4	17177.5
72.5°	5560.5	5839.1	7470.0	11361.8	17621.3	24143.7	24280.4	22408.7	20008.5	16556.6	12684.3
75°	2441.8	2624.1	3612.0	6547.1	12615.3	19975.9	20146.5	19180.7	16257.2	12032.2	7497.3
77.5°	1040.0	1092.1	1481.2	2844.0	7131.6	13650.1	13884.4	14014.5	11029.9	6547.1	3168.1
80°	648.2	669.0	838.2	1287.3	3337.4	7666.5	7919.1	8245.8	5477.2	2406.7	1106.4
82.5°	394.4	417.8	557.1	778.4	1737.7	3475.3	3596.4	3826.8	2125.5	1040.0	572.7
85°	236.9	253.8	341.0	492.0	989.2	1366.7	1365.4	1509.9	1000.9	669.0	302.0
87.5°	113.2	126.3	182.2	255.1	498.5	512.8	480.3	544.1	607.9	438.6	152.3
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°	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9	3874.9
2.5°	3872.3	3867.1	3850.2	3837.2	3834.6	3826.8	3820.3	3824.2	3829.4	3830.7	3830.7
5°	3871.0	3856.7	3834.6	3825.5	3837.2	3852.8	3872.3	3898.3	3914.0	3925.7	3933.5
7.5°	3933.5	3906.2	3881.4	3876.2	3899.7	3941.3	3985.6	4040.2	4078.0	4104.0	4109.2
10°	4037.6	4003.8	3979.0	3984.3	4025.9	4085.8	4148.3	4218.5	4275.8	4311.0	4313.6
12.5°	4157.4	4124.8	4101.4	4123.5	4192.5	4265.4	4330.5	4391.7	4443.7	4478.9	4478.9
15°	4295.3	4271.9	4244.6	4295.3	4389.1	4454.1	4481.5	4511.4	4540.0	4566.1	4560.9
17.5°	4428.1	4406.0	4391.7	4451.5	4549.2	4579.1	4560.9	4538.7	4538.7	4553.1	4555.7
20°	4542.7	4523.1	4532.2	4590.8	4641.6	4610.3	4542.7	4472.4	4443.7	4451.5	4459.3
22.5°	4642.9	4633.8	4661.1	4688.4	4652.0	4542.7	4417.7	4322.7	4287.5	4284.9	4287.5
25°	4760.0	4758.7	4792.6	4743.1	4581.7	4379.9	4212.0	4119.6	4100.1	4115.7	4141.8
27.5°	4905.8	4920.1	4937.0	4756.1	4438.5	4133.9	3963.4	3899.7	3919.2	3956.9	3981.7
30°	5091.9	5131.0	5094.5	4723.6	4232.9	3852.8	3690.1	3671.9	3725.2	3778.6	3804.6
32.5°	5272.9	5334.0	5245.5	4639.0	3967.3	3554.7	3428.5	3423.3	3488.3	3540.4	3576.8
35°	5418.6	5539.7	5358.8	4471.1	3660.2	3280.1	3187.7	3152.5	3176.0	3237.1	3278.8
37.5°	5608.7	5810.4	5436.9	4214.6	3326.9	3053.6	2945.6	2864.9	2844.0	2868.8	2889.6
40°	5956.2	6223.0	5473.3	3856.7	3001.5	2827.1	2717.8	2599.3	2517.3	2457.5	2458.8
42.5°	6523.7	6760.6	5449.9	3422.0	2700.9	2605.8	2482.2	2345.5	2212.8	2077.4	2067.0
45°	7445.3	7559.8	5379.6	2961.2	2436.6	2374.2	2258.3	2121.6	1944.6	1791.0	1776.7
47.5°	8920.0	8666.2	5270.3	2559.0	2203.6	2177.6	2070.9	1913.4	1725.9	1602.3	1591.9
50°	10931.0	10263.3	5216.9	2238.8	1998.0	2005.8	1918.6	1752.0	1575.0	1483.8	1473.4
52.5°	13336.4	12123.3	5319.7	1991.5	1832.7	1860.0	1794.9	1638.7	1490.4	1418.8	1408.4
55°	15831.6	14049.7	5430.4	1811.9	1676.5	1729.9	1707.7	1578.9	1444.8	1378.4	1369.3
57.5°	17967.6	15488.0	5209.1	1666.1	1537.2	1620.5	1640.0	1541.1	1421.4	1361.5	1351.1
60°	19312.1	16067.2	4628.6	1529.4	1426.6	1533.3	1601.0	1530.7	1430.5	1425.3	1417.5
62.5°	19949.9	16016.4	3757.8	1421.4	1357.6	1495.6	1629.6	1589.3	1534.6	1581.5	1585.4
65°	19663.6	15251.1	2798.5	1349.8	1308.1	1509.9	1715.5	1699.9	1564.5	1611.4	1617.9
67.5°	17778.8	13424.9	2072.2	1287.3	1253.5	1550.2	1871.7	1736.4	1506.0	1539.8	1519.0
70°	14369.9	10643.3	1598.4	1217.0	1197.5	1545.0	1942.0	1714.2	1442.2	1450.0	1394.0
72.5°	9909.2	7257.8	1300.3	1151.9	1116.8	1408.4	1892.6	1659.6	1388.8	1329.0	1254.8
75°	5388.7	3895.7	1105.1	1084.2	974.9	1236.5	1801.4	1620.5	1340.7	1261.3	1219.6
77.5°	2120.3	1616.6	959.3	991.8	852.6	1092.1	1699.9	1546.3	1274.3	1170.2	1149.3
80°	865.6	825.2	795.3	857.8	732.8	955.4	1577.6	1459.1	1194.9	1085.6	1043.9
82.5°	490.7	512.8	618.3	676.8	594.8	879.9	1519.0	1388.8	1099.9	972.3	922.8
85°	251.2	300.7	430.8	485.5	437.3	748.4	1399.2	1215.7	882.5	744.5	748.4
87.5°	121.1	167.9	272.0	304.6	283.8	541.5	1045.2	881.2	687.3	544.1	527.2
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)