

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: P319444

Luminaire Tested: **GAN-SA0B-760-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-760-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55411 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 419
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

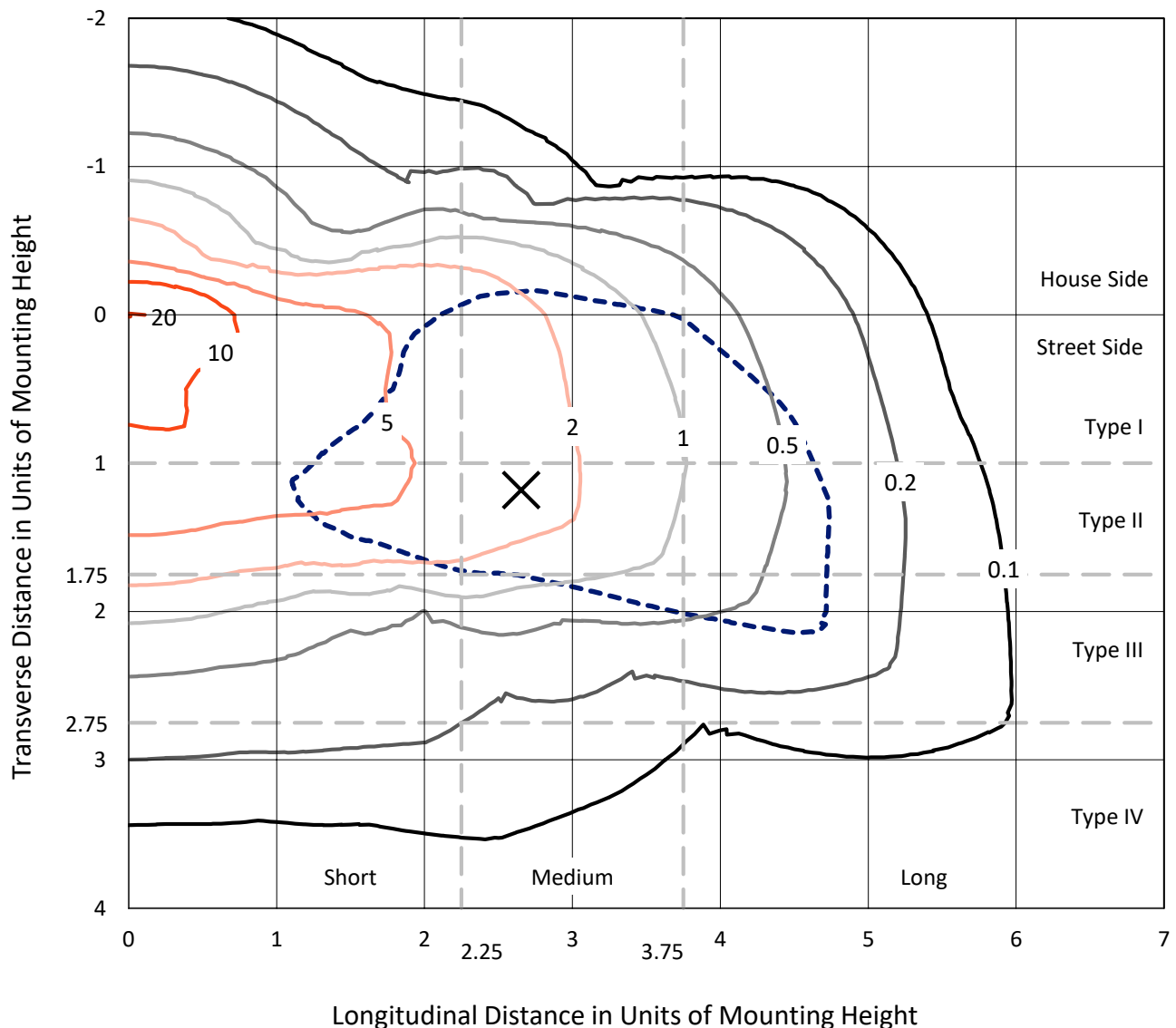


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Iso-Footcandle Lines of Horizontal Illumination

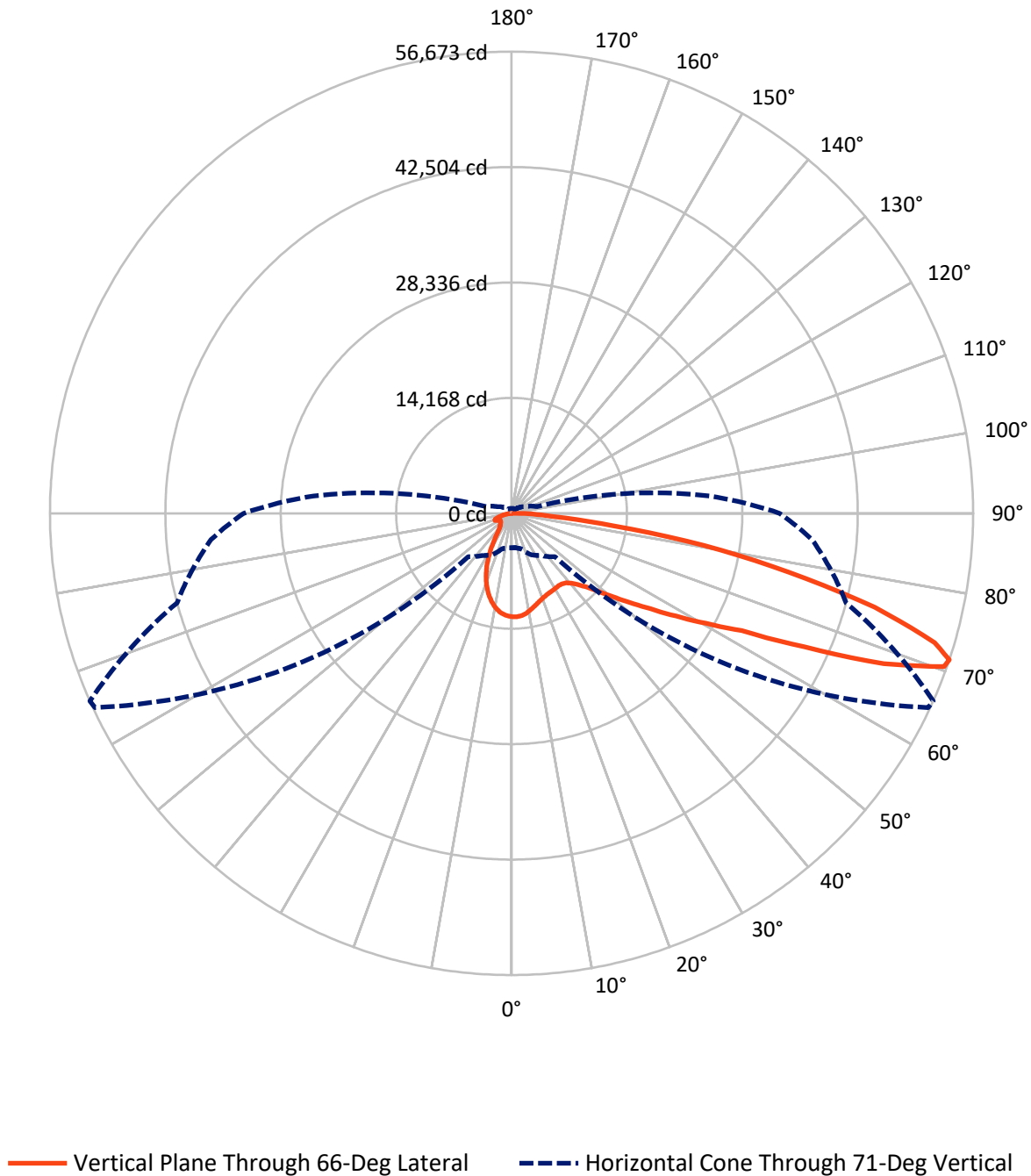
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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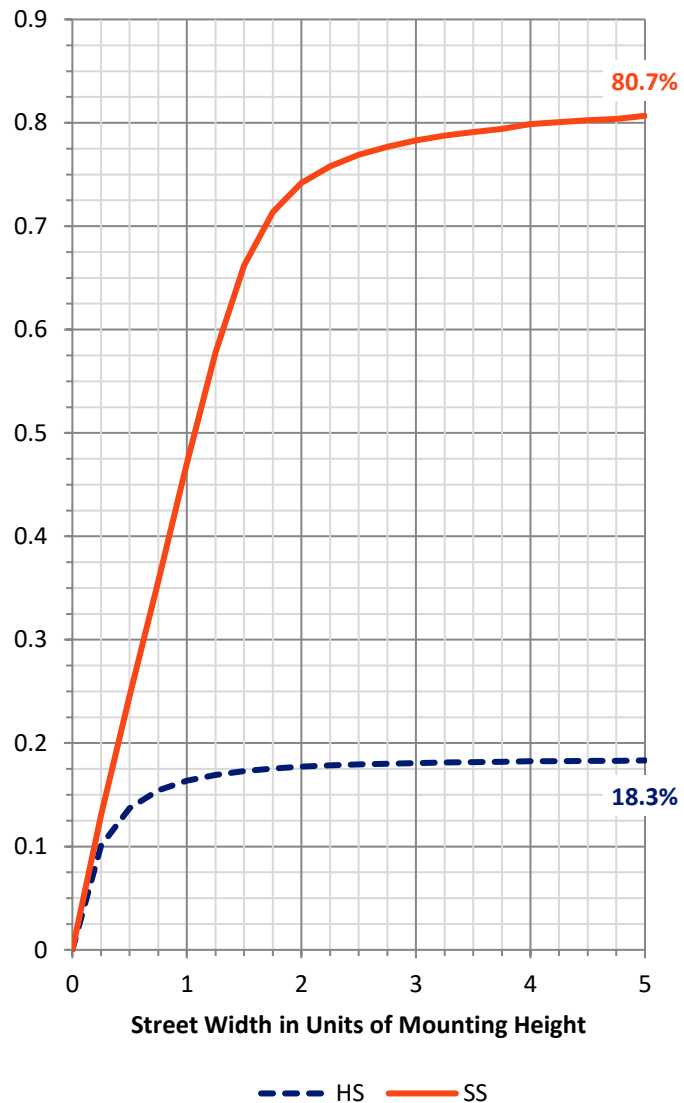
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10269.2	0.0	10269.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	45141.8	0.0	45141.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	55411.0	0.0	55411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1117.3	2.0
10°-20°	2679.9	4.8
20°-30°	3599.7	6.5
30°-40°	4735.4	8.5
40°-50°	6888.7	12.4
50°-60°	10760.9	19.4
60°-70°	13479.8	24.3
70°-80°	10282.1	18.6
80°-90°	1867.1	3.4
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°	55411.0	100.0
0°-180°	55411.0	100.0

Coefficient of Utilization



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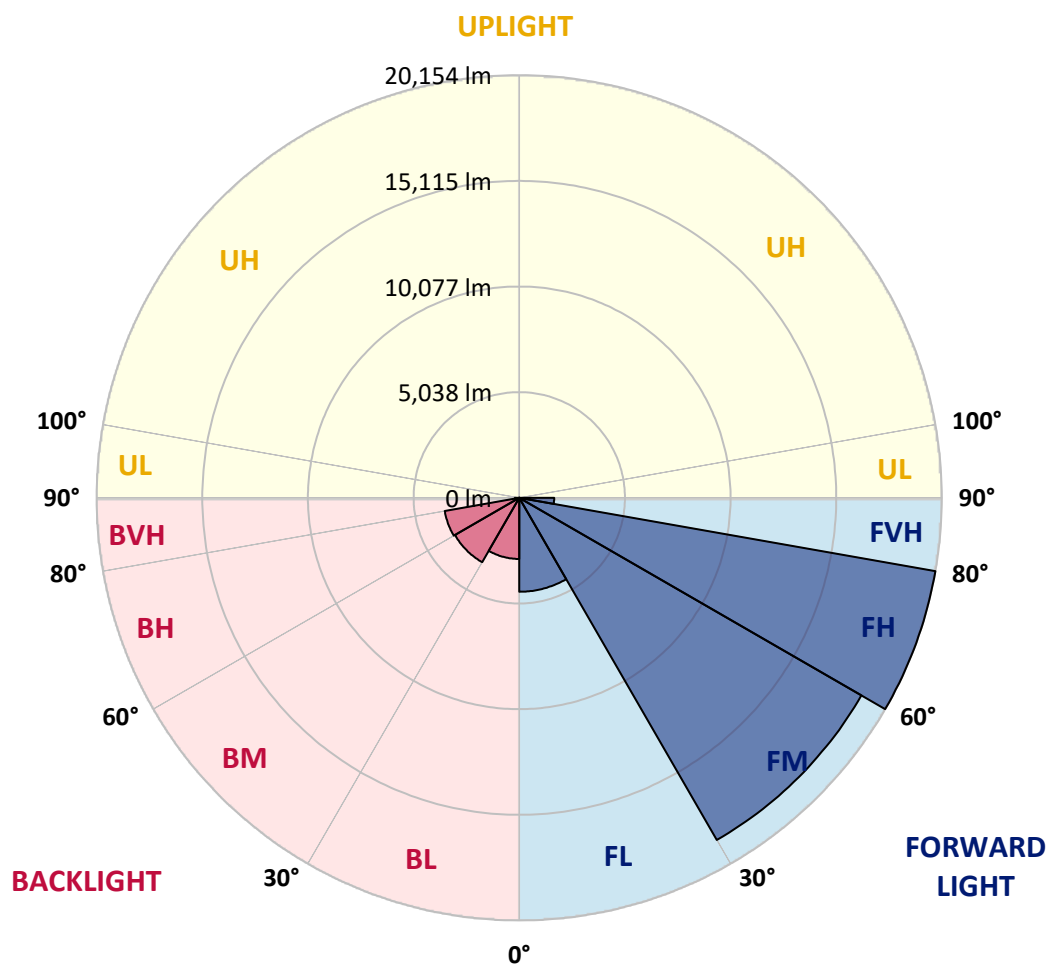
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4480.7	8.1			
FM	(30°-60°)	18842.5	34.0			
FH	(60°-80°)	20153.6	36.4			G5
FVH	(80°-90°)	1665.0	3.0			G5
BL	(0°-30°)	2916.2	5.3	B4/5000		
BM	(30°-60°)	3542.5	6.4	B3/5000		
BH	(60°-80°)	3608.3	6.5	B4/5000		G4/5000
BVH	(80°-90°)	202.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6
2.5°	12458.3	12439.1	12496.5	12555.8	12578.8	12617.1	12674.5	12707.0	12705.1	12710.8	12691.7
5°	11631.8	11606.9	11721.7	11815.5	11995.3	12198.1	12444.9	12620.9	12624.7	12724.2	12751.0
7.5°	10849.3	10832.1	10964.1	11115.3	11323.8	11633.7	12033.6	12412.4	12435.3	12705.1	12798.8
10°	10221.8	10218.0	10346.2	10510.7	10753.7	11100.0	11559.1	12113.9	12148.3	12613.2	12806.5
12.5°	9732.1	9739.7	9850.7	10038.2	10294.5	10656.1	11153.5	11779.1	11834.6	12467.8	12762.5
15°	9370.5	9401.1	9491.0	9680.4	9932.9	10300.3	10811.1	11469.2	11553.4	12305.2	12737.6
17.5°	9163.9	9198.3	9261.4	9418.3	9655.5	10009.5	10493.5	11214.7	11291.3	12180.9	12739.5
20°	9102.7	9131.3	9167.7	9263.4	9464.2	9785.6	10242.9	10985.2	11067.4	12081.4	12758.6
22.5°	9223.2	9244.2	9248.0	9240.4	9362.8	9624.9	10061.1	10816.8	10904.8	12016.3	12772.0
25°	9481.4	9510.1	9489.1	9418.3	9378.1	9538.8	9967.4	10705.9	10793.9	11968.5	12745.2
27.5°	9869.8	9873.6	9856.4	9764.6	9575.2	9548.4	9938.7	10640.8	10725.0	11913.0	12689.8
30°	10397.8	10422.7	10392.1	10267.7	9957.8	9701.5	9973.1	10577.7	10654.2	11842.2	12599.8
32.5°	11015.8	11077.0	11075.1	10945.0	10501.1	10043.9	10114.7	10539.4	10598.7	11767.6	12490.8
35°	11656.7	11740.9	11897.7	11842.2	11293.2	10585.3	10386.4	10600.6	10640.8	11758.1	12414.3
37.5°	12322.4	12406.6	12729.9	12879.2	12236.4	11360.1	10814.9	10816.8	10835.9	11874.8	12408.5
40°	13018.8	13108.7	13594.7	13983.0	13458.8	12341.6	11505.5	11268.3	11247.3	12161.7	12521.4
42.5°	13994.5	14074.9	14658.4	15153.9	14815.2	13598.5	12460.2	11964.7	11920.7	12724.2	12883.0
45°	15228.5	15297.4	15917.2	16447.1	16273.0	15033.3	13659.7	12923.2	12915.5	13661.6	13615.7
47.5°	16695.8	16749.4	17306.1	17818.9	17882.0	16684.4	15167.3	14402.0	14277.7	14947.2	14750.2
50°	18224.4	18283.7	18662.5	19213.5	19682.2	18894.0	17107.2	16213.7	16047.3	16644.2	16357.2
52.5°	19236.5	19314.9	19644.0	20342.3	21706.3	21316.0	19401.0	18410.0	18157.5	18700.8	18480.8
55°	18785.0	18961.0	19464.1	20583.3	23324.8	25016.0	22230.5	20971.7	20686.6	21138.1	21008.0
57.5°	16732.2	16973.2	17660.1	19387.6	23552.5	28276.0	26508.3	23988.7	23787.8	23657.7	23717.0
60°	12980.6	13212.0	14063.4	16315.1	21966.5	30655.9	32945.9	27707.8	27417.0	26186.9	26240.4
62.5°	9186.8	9070.1	9653.6	11300.8	17849.5	30935.2	40271.3	32681.9	31725.4	28857.6	28622.3
65°	7005.9	6979.1	7241.2	7765.4	10811.1	27593.0	44635.1	41042.3	39548.1	31998.9	31444.1
67.5°	5756.6	5708.8	5967.0	6730.4	6961.9	17801.6	44730.8	50741.8	49274.5	35909.4	34707.9
70°	4733.1	4679.5	4920.6	5905.8	6433.8	9028.0	37646.5	56421.9	56343.5	40860.5	37172.0
71°	4243.3	4205.0	4493.9	5588.2	6321.0	7524.3	32504.0	56437.2	56672.5	42536.4	37026.6
72.5°	3455.1	3468.5	3774.6	4974.1	6236.8	6644.3	23889.2	53806.7	54304.1	44133.9	35704.7
75°	2295.8	2307.2	2709.0	3826.3	6047.4	6500.8	13129.8	45149.8	46064.2	43177.3	32580.5
77.5°	1542.0	1538.2	1811.7	2624.8	5268.7	6500.8	7698.4	33768.6	34773.0	34355.9	25117.4
80°	1061.8	1054.1	1247.4	1811.7	3988.9	6579.2	5951.7	23665.4	23969.5	18553.5	10208.4
82.5°	650.5	656.2	815.0	1279.9	2714.7	5921.1	5618.8	12904.0	12573.1	5203.7	2550.2
85°	373.1	371.1	520.4	866.6	1742.9	4997.1	5479.2	5553.8	5094.7	1566.8	922.1
87.5°	133.9	143.5	279.3	480.2	998.7	3480.0	4648.9	2888.8	2603.8	707.9	417.1
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°	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6	12693.6
2.5°	12678.3	12689.8	12676.4	12599.8	12534.8	12429.6	12370.3	12288.0	12263.1	12251.7	12282.3
5°	12726.1	12729.9	12617.1	12416.2	12190.4	11924.5	11733.2	11497.9	11386.9	11339.1	11369.7
7.5°	12770.1	12752.9	12506.1	12121.6	11704.5	11241.5	10830.2	10453.3	10233.3	10143.4	10151.0
10°	12775.9	12703.2	12307.1	11712.2	11065.5	10386.4	9755.0	9173.4	8806.1	8567.0	8639.7
12.5°	12716.5	12594.1	12014.4	11182.2	10285.0	9359.0	8505.8	7633.4	7109.2	6866.2	6873.9
15°	12670.6	12448.7	11654.8	10558.5	9353.3	8127.0	6961.9	5936.4	5377.8	5129.1	5012.4
17.5°	12632.4	12291.8	11237.7	9856.4	8253.2	6697.9	5297.4	4383.0	4076.9	4004.2	3973.6
20°	12578.8	12125.4	10772.8	9043.3	7000.1	5098.5	3868.3	3416.8	3418.8	3502.9	3514.4
22.5°	12504.2	11936.0	10277.3	8130.8	5655.2	3713.4	3032.3	2902.2	3034.2	3194.9	3223.6
25°	12393.2	11712.2	9726.3	7122.6	4312.2	2854.4	2590.4	2584.6	2745.3	2913.7	2938.6
27.5°	12236.4	11419.4	9114.1	6039.7	3177.7	2425.8	2320.6	2360.8	2479.4	2601.9	2611.4
30°	12025.9	11078.9	8438.8	4897.6	2490.9	2159.9	2148.4	2184.8	2257.5	2343.6	2351.2
32.5°	11794.4	10732.6	7717.5	3791.8	2133.1	2016.4	2027.9	2045.1	2079.6	2114.0	2121.7
35°	11584.0	10378.7	6979.1	2881.2	1962.9	1922.7	1915.0	1911.2	1915.0	1903.6	1905.5
37.5°	11448.1	10086.0	6210.0	2293.8	1865.3	1840.4	1817.5	1788.8	1756.2	1737.1	1740.9
40°	11398.4	9867.9	5431.4	1982.0	1784.9	1767.7	1723.7	1662.5	1624.2	1612.8	1612.8
42.5°	11532.3	9755.0	4679.5	1825.1	1718.0	1689.3	1616.6	1545.8	1517.1	1515.2	1513.3
45°	11941.7	9800.9	3964.0	1739.0	1656.8	1601.3	1505.6	1446.3	1427.2	1431.0	1429.1
47.5°	12676.4	10089.8	3351.8	1681.6	1595.5	1522.8	1415.7	1367.9	1344.9	1344.9	1346.8
50°	13925.6	10765.2	2863.9	1633.8	1543.9	1450.1	1350.7	1291.4	1260.7	1258.8	1258.8
52.5°	15745.0	11974.3	2559.8	1593.6	1486.5	1385.1	1285.6	1211.0	1174.7	1167.0	1163.2
55°	18025.5	13707.5	2475.6	1566.8	1410.0	1314.3	1207.2	1132.6	1092.4	1075.2	1073.3
57.5°	20575.7	15815.8	2642.0	1534.3	1331.5	1230.1	1121.1	1050.3	1008.2	987.2	985.3
60°	23156.5	18117.3	3321.2	1488.4	1266.5	1138.3	1033.1	968.0	926.0	903.0	899.2
62.5°	25741.1	20543.1	4708.2	1484.6	1220.6	1050.3	943.2	887.7	847.5	822.6	816.9
65°	28656.7	23198.6	6284.6	1586.0	1205.3	970.0	851.3	807.3	772.9	749.9	748.0
67.5°	32004.7	26196.4	6133.5	1794.5	1256.9	897.3	765.3	730.8	705.9	686.8	684.9
70°	33575.4	25727.7	3812.9	1941.8	1329.6	826.5	683.0	658.1	639.0	625.6	619.9
71°	32917.2	24428.7	3196.8	1924.6	1322.0	795.9	650.5	631.3	612.2	600.7	595.0
72.5°	31122.7	22278.3	2666.9	1790.7	1235.9	740.4	608.4	589.2	572.0	558.6	554.8
75°	27927.8	19896.5	2135.0	1431.0	985.3	625.6	533.8	512.7	499.3	491.7	484.0
77.5°	20529.7	14199.2	1651.0	1130.7	725.1	510.8	455.3	440.0	426.6	415.1	409.4
80°	7864.9	5500.2	1111.5	843.7	531.8	403.7	367.3	359.7	346.3	338.6	338.6
82.5°	2117.8	1643.4	593.1	510.8	355.8	294.6	281.2	277.4	265.9	250.6	252.5
85°	857.1	725.1	332.9	281.2	218.1	174.1	189.4	191.3	177.9	158.8	160.7
87.5°	376.9	308.0	185.6	124.4	95.7	67.0	86.1	86.1	78.4	65.0	59.3
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)