

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: P192833

Luminaire Tested: **GAN-AF-05-LED-U-SL2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-SL2-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 28186.7 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 279
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: 28.75 FT



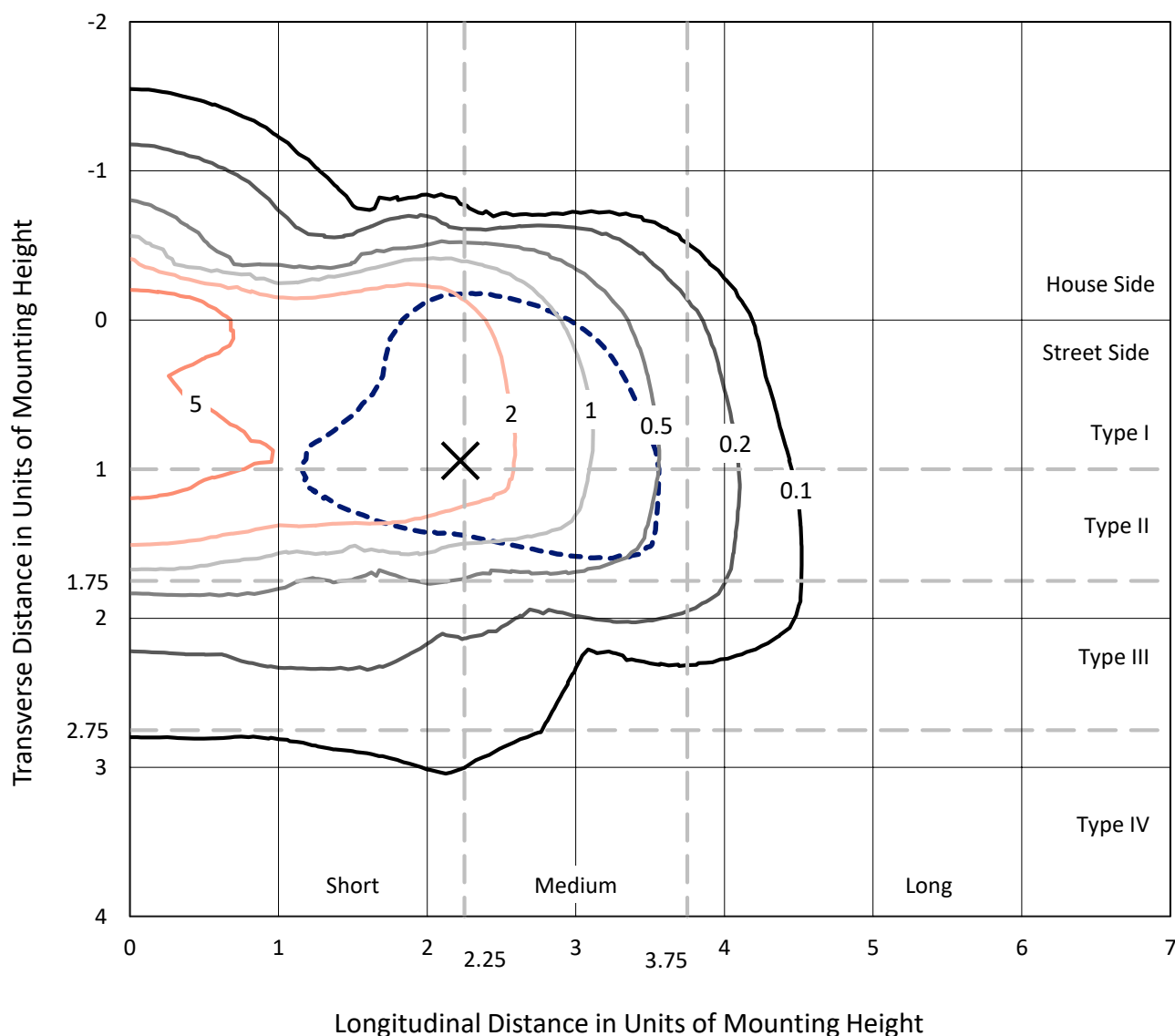
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

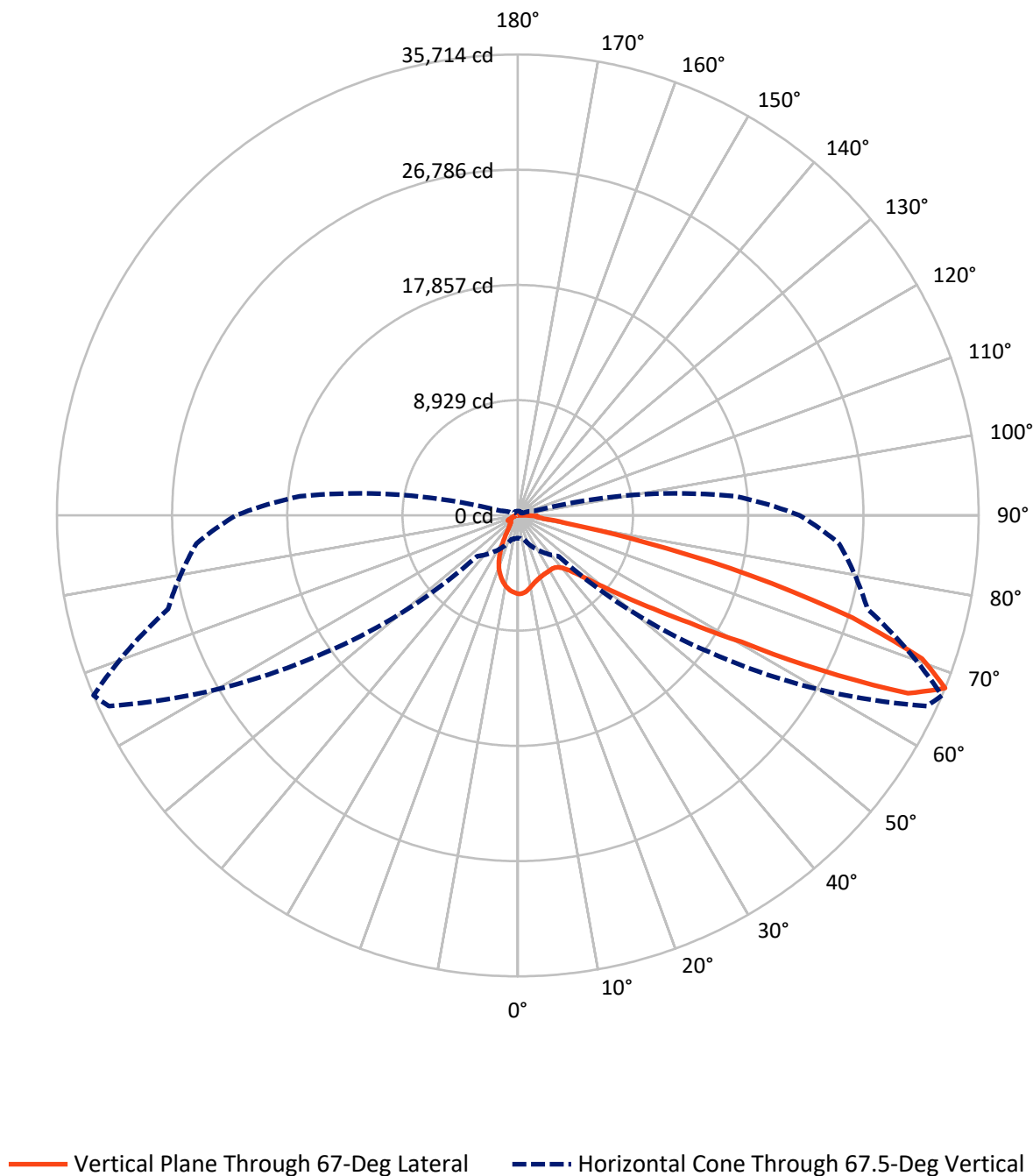


Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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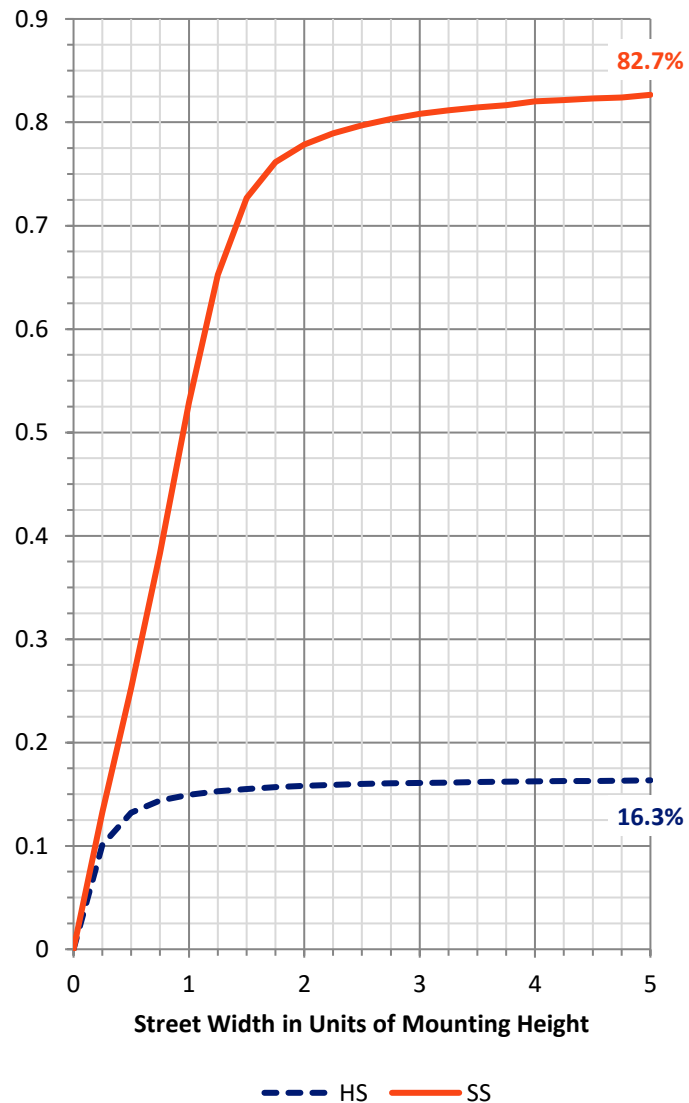
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4670.2	0.0	4670.2
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	23516.5	0.0	23516.5
	% Fixture	83.4	0.0	83.4
Total	Lumens	28186.7	0.0	28186.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.7	1.8
10°-20°	1200.2	4.3
20°-30°	1626.9	5.8
30°-40°	2312.8	8.2
40°-50°	3869.4	13.7
50°-60°	6121.3	21.7
60°-70°	7797.9	27.7
70°-80°	4084.5	14.5
80°-90°	655.1	2.3
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°	28186.7	100.0
0°-180°	28186.7	100.0

Coefficient of Utilization



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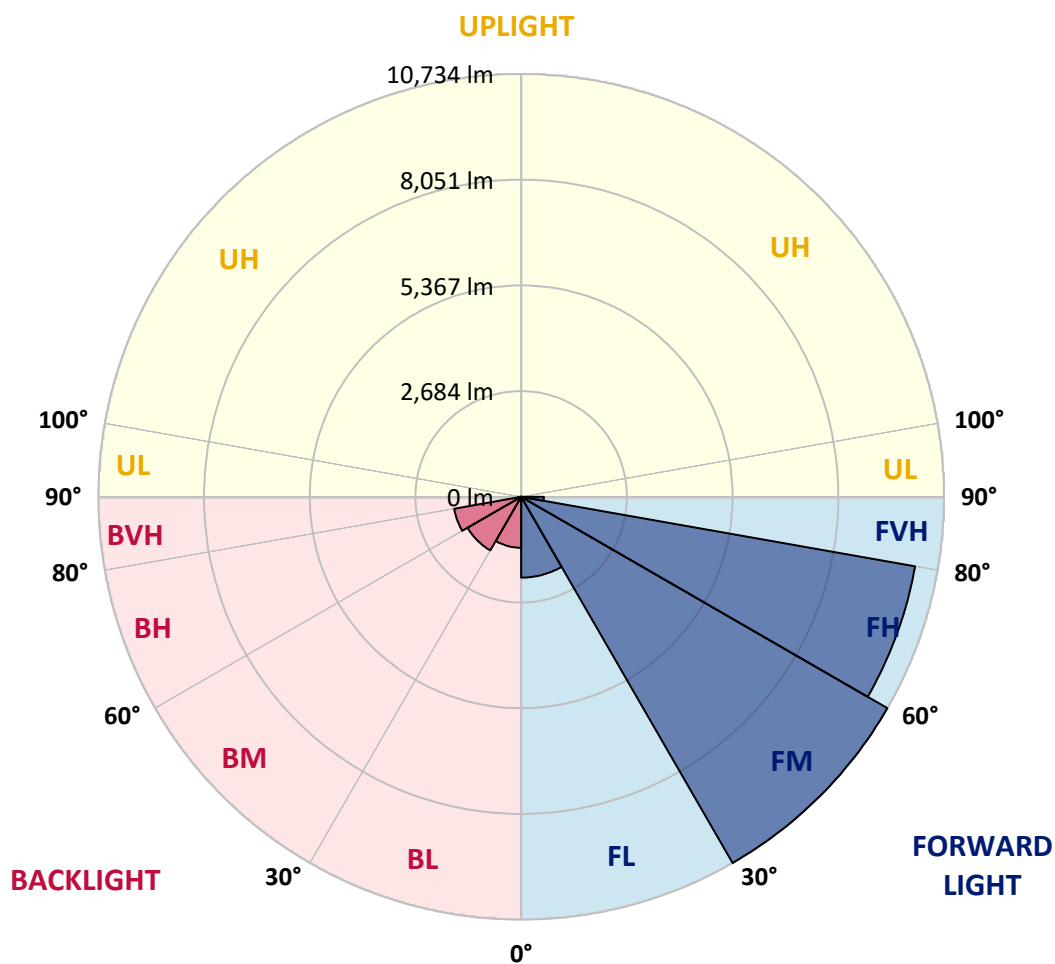
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2051.3	7.3			
FM	(30°-60°)	10734.1	38.1			
FH	(60°-80°)	10155.1	36.0			G4/12000
FVH	(80°-90°)	576.0	2.0			G4/750
BL	(0°-30°)	1294.5	4.6	B3/2500		
BM	(30°-60°)	1569.3	5.6	B2/2500		
BH	(60°-80°)	1727.4	6.1	B3/2500		G3/2500
BVH	(80°-90°)	79.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8
2.5°	5829.6	5839.4	5870.0	5889.4	5976.9	6014.5	6040.8	6067.2	6071.4	6084.0	6071.4
5°	5218.0	5238.9	5295.8	5359.8	5529.4	5662.8	5803.2	5949.1	5975.6	6070.1	6096.4
7.5°	4744.0	4738.5	4785.8	4862.1	5035.9	5220.9	5466.8	5757.3	5814.3	6027.0	6129.9
10°	4397.9	4393.8	4443.8	4523.0	4688.5	4863.5	5141.5	5539.1	5619.8	5958.9	6161.7
12.5°	4142.1	4143.5	4193.6	4281.1	4449.4	4625.9	4908.0	5327.8	5430.7	5879.7	6195.2
15°	3972.5	3983.7	4024.0	4117.1	4281.1	4457.7	4734.3	5169.4	5284.8	5817.1	6232.7
17.5°	3915.7	3933.7	3947.5	4015.8	4156.1	4332.5	4603.6	5052.5	5174.9	5774.1	6266.0
20°	3968.4	3989.3	3962.9	3986.5	4075.5	4231.2	4500.8	4960.9	5085.9	5725.4	6270.3
22.5°	4195.0	4214.4	4136.5	4068.5	4063.0	4157.5	4416.0	4888.6	5017.8	5689.2	6271.6
25°	4594.0	4606.4	4475.8	4317.3	4163.0	4131.1	4356.1	4838.5	4976.1	5657.2	6245.3
27.5°	5083.2	5092.9	4942.8	4709.3	4399.4	4193.6	4335.4	4809.4	4952.5	5629.5	6200.7
30°	5678.1	5724.0	5522.4	5227.7	4775.9	4378.4	4377.0	4794.1	4926.1	5582.2	6113.2
32.5°	6286.9	6306.3	6167.3	5868.6	5283.3	4703.7	4493.9	4805.2	4919.2	5525.2	6001.9
35°	6904.1	6929.1	6838.7	6598.2	5976.9	5180.5	4721.7	4870.6	4962.2	5505.8	5924.1
37.5°	7703.4	7736.6	7611.5	7333.6	6820.6	5826.8	5101.2	5034.5	5094.3	5561.3	5900.5
40°	8966.8	8951.5	8585.9	8171.7	7743.6	6653.9	5643.3	5312.5	5347.2	5740.7	5972.7
42.5°	10437.4	10399.9	9770.2	9119.7	8758.3	7654.7	6360.5	5794.9	5787.9	6093.7	6227.1
45°	11610.6	11580.0	11012.9	10210.9	9921.8	8794.5	7287.7	6513.5	6462.0	6653.9	6696.9
47.5°	12245.8	12247.2	11920.5	11265.8	11258.9	10242.8	8478.9	7553.2	7464.3	7554.6	7508.8
50°	12023.4	12052.6	12017.9	11809.3	12479.3	12141.6	10034.4	9003.0	8823.7	8912.6	8736.1
52.5°	10947.6	10985.0	11190.8	11510.5	12992.2	14436.4	12319.4	10804.3	10595.9	10563.9	10367.9
55°	9040.4	9086.3	9506.1	10374.8	12565.5	15977.8	15925.1	13100.6	12768.5	12466.8	12383.5
57.5°	6231.3	6307.7	6983.3	8273.2	11185.2	16443.5	20218.8	16374.0	15698.5	14644.9	14664.3
60°	3512.4	3601.4	4397.9	5569.7	8399.8	15937.5	23485.2	21332.1	19906.1	17195.5	17340.1
62.5°	2233.7	2329.6	2934.2	3869.8	5040.1	13213.3	24823.8	28225.1	26414.0	20339.7	20481.4
65°	1808.4	1850.1	2135.0	3194.2	3659.8	7960.4	23807.7	33903.1	33227.6	24330.3	23668.8
67.5°	1765.3	1779.2	1926.6	2681.3	3509.7	4474.3	18990.1	34965.1	35714.3	28056.9	24996.2
70°	1744.5	1793.1	2171.2	2559.0	3361.1	3773.9	11411.8	32054.5	33237.3	29031.3	23229.5
72.5°	846.5	843.7	1092.5	2314.3	3786.3	3914.2	5863.0	25935.8	27122.8	25151.8	19088.6
75°	682.5	624.1	596.3	847.9	3640.4	4042.0	3736.3	17846.1	18705.0	16863.3	11734.2
77.5°	647.7	578.2	529.6	531.0	1538.7	4286.7	3165.0	9877.2	10127.5	7617.1	3215.1
80°	536.6	472.5	437.8	493.5	745.0	4082.4	3422.1	4470.3	4101.8	1870.9	1070.3
82.5°	372.5	339.1	329.4	414.2	596.3	2909.2	3979.6	2401.8	2014.0	936.9	660.3
85°	237.6	202.9	225.2	301.7	464.3	1342.7	4099.1	1872.2	1488.6	594.9	372.5
87.5°	109.8	88.9	111.2	166.8	302.9	462.8	3900.3	2103.0	1533.1	314.1	234.9
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°	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8	6079.8
2.5°	6082.6	6056.1	6035.4	5996.3	5953.3	5911.6	5874.1	5826.8	5812.9	5800.5	5819.9
5°	6102.0	6075.6	5999.2	5879.7	5747.6	5623.9	5500.2	5394.5	5329.2	5293.1	5314.0
7.5°	6131.2	6093.7	5935.3	5715.7	5477.9	5261.1	5037.3	4858.0	4726.0	4663.4	4681.4
10°	6157.7	6085.4	5826.8	5497.4	5149.9	4827.4	4474.3	4182.5	3965.7	3851.6	3879.5
12.5°	6168.8	6053.4	5675.4	5225.0	4748.2	4275.7	3755.8	3319.3	3007.9	2894.0	2870.3
15°	6179.9	6017.2	5508.6	4915.0	4263.1	3594.5	2866.2	2343.5	2085.0	2028.0	2015.5
17.5°	6182.7	5954.7	5319.5	4578.6	3694.6	2784.2	1959.9	1627.6	1629.0	1720.9	1732.0
20°	6153.5	5861.5	5090.2	4160.3	3013.5	1925.1	1345.5	1288.5	1498.4	1727.7	1755.6
22.5°	6086.8	5737.9	4830.3	3672.3	2233.7	1267.6	1041.1	1103.6	1374.7	1655.5	1687.4
25°	6001.9	5587.7	4523.0	3106.6	1479.0	906.3	872.9	949.4	1132.8	1320.5	1338.5
27.5°	5886.6	5409.9	4178.3	2458.9	960.5	746.5	768.6	820.1	895.2	978.5	986.9
30°	5737.9	5197.1	3810.0	1793.1	725.6	671.4	703.3	731.2	763.0	810.3	814.5
32.5°	5566.9	4992.8	3431.9	1238.5	643.5	632.4	657.4	671.4	696.4	725.6	728.3
35°	5423.7	4798.2	3039.9	875.7	608.8	603.2	619.9	625.5	649.1	681.1	683.9
37.5°	5341.6	4639.8	2635.5	706.2	585.2	576.9	586.6	586.6	619.9	667.2	674.1
40°	5347.2	4552.2	2231.0	638.0	565.8	554.6	556.0	556.0	599.1	650.5	654.7
42.5°	5498.8	4574.4	1872.2	611.7	550.4	537.9	531.0	535.2	571.3	604.6	607.4
45°	5854.6	4731.5	1535.9	594.9	535.2	531.0	515.7	514.3	528.2	543.4	543.4
47.5°	6438.4	5041.4	1308.0	583.8	522.6	521.2	503.1	485.1	483.7	489.3	489.3
50°	7387.8	5575.3	1155.1	571.3	514.3	503.1	482.4	454.5	444.8	448.9	448.9
52.5°	8811.1	6527.3	1096.8	554.6	496.2	478.1	454.5	426.7	418.4	419.8	419.8
55°	10677.9	7989.7	1088.3	535.2	476.8	447.5	428.1	407.3	397.4	400.3	400.3
57.5°	12958.8	10012.1	1237.2	504.6	450.3	417.1	405.9	392.0	385.0	389.2	387.8
60°	15731.9	12658.6	1834.8	472.5	423.9	389.2	389.2	378.0	372.5	376.7	375.3
62.5°	18926.1	15698.5	2579.8	448.9	396.2	367.0	372.5	367.0	361.4	364.2	362.7
65°	21758.9	17679.2	2415.8	430.9	368.3	346.2	355.8	353.0	348.9	351.7	350.2
67.5°	21840.8	16945.3	1356.7	411.5	342.0	325.3	339.1	337.7	335.0	337.7	336.4
70°	19491.8	14308.5	764.5	375.3	314.1	300.3	319.7	318.3	315.5	321.1	319.7
72.5°	15616.5	10383.2	558.8	330.8	286.4	273.8	296.1	294.7	294.7	302.9	298.9
75°	8986.2	5343.1	446.3	283.5	257.2	247.5	266.9	268.2	271.1	282.2	273.8
77.5°	2561.7	1665.2	364.2	240.5	221.0	216.9	236.3	239.1	240.5	252.9	241.9
80°	952.2	767.2	300.3	201.6	180.8	182.1	200.2	204.4	205.7	218.2	204.4
82.5°	607.4	506.0	243.2	155.7	141.8	140.4	162.6	168.2	168.2	169.6	161.2
85°	354.4	302.9	183.4	112.5	100.1	95.9	121.0	130.7	126.5	123.7	118.1
87.5°	237.6	208.4	112.5	62.5	54.2	51.5	70.9	77.8	75.1	70.9	66.7
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)