

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: P319520

Luminaire Tested: **GAN-SA6B-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319520
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-SA6B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 26608 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

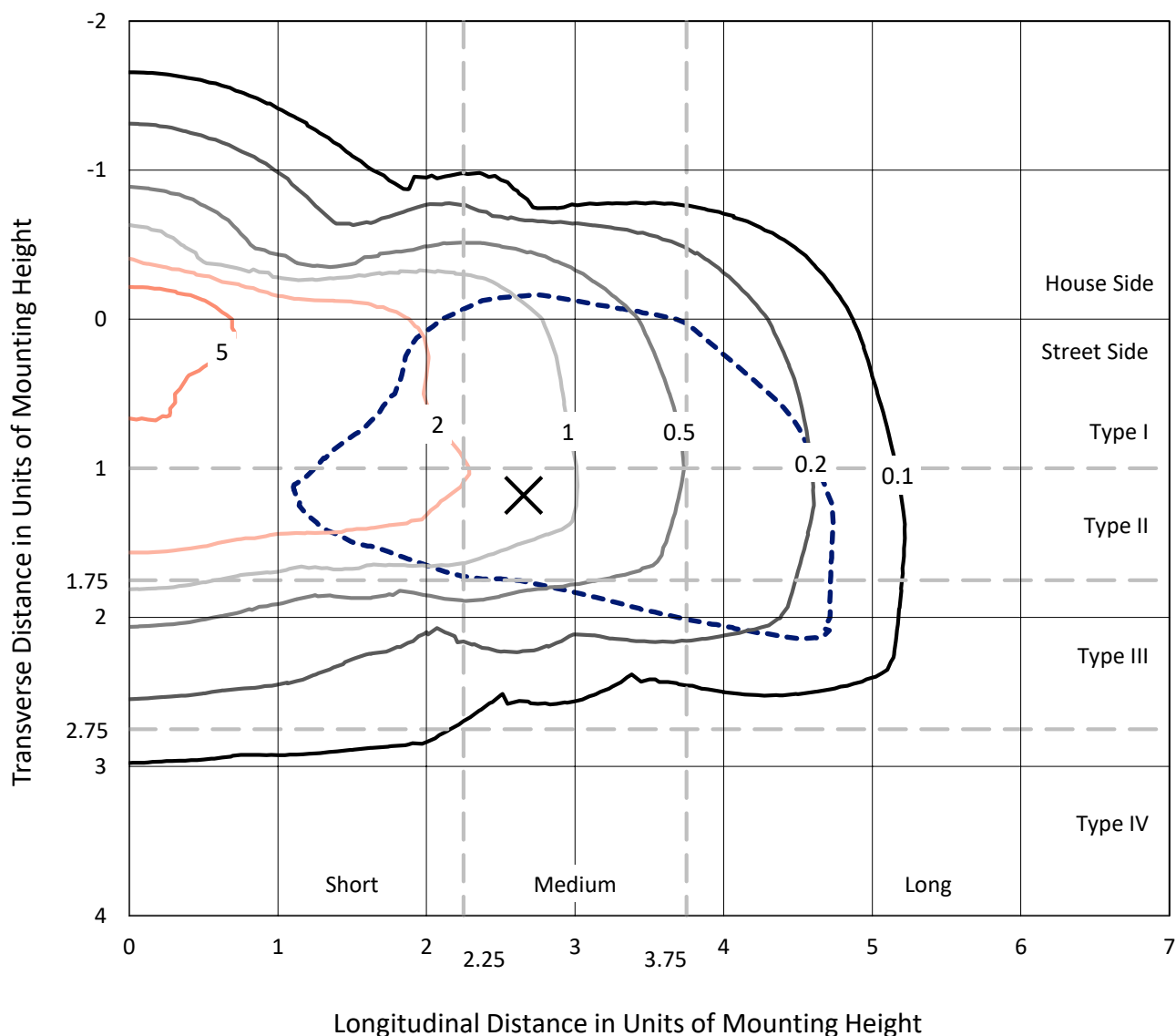
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

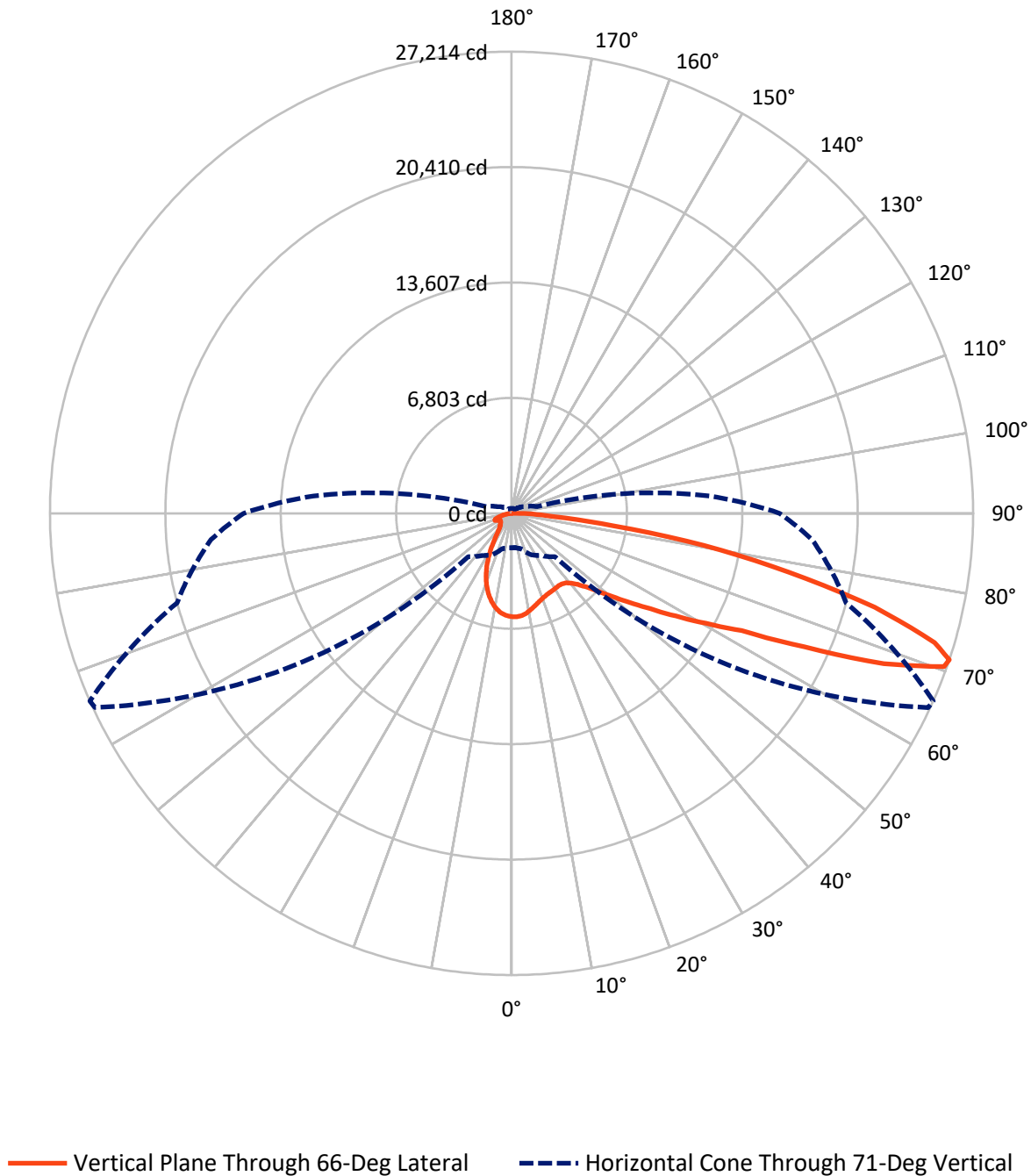
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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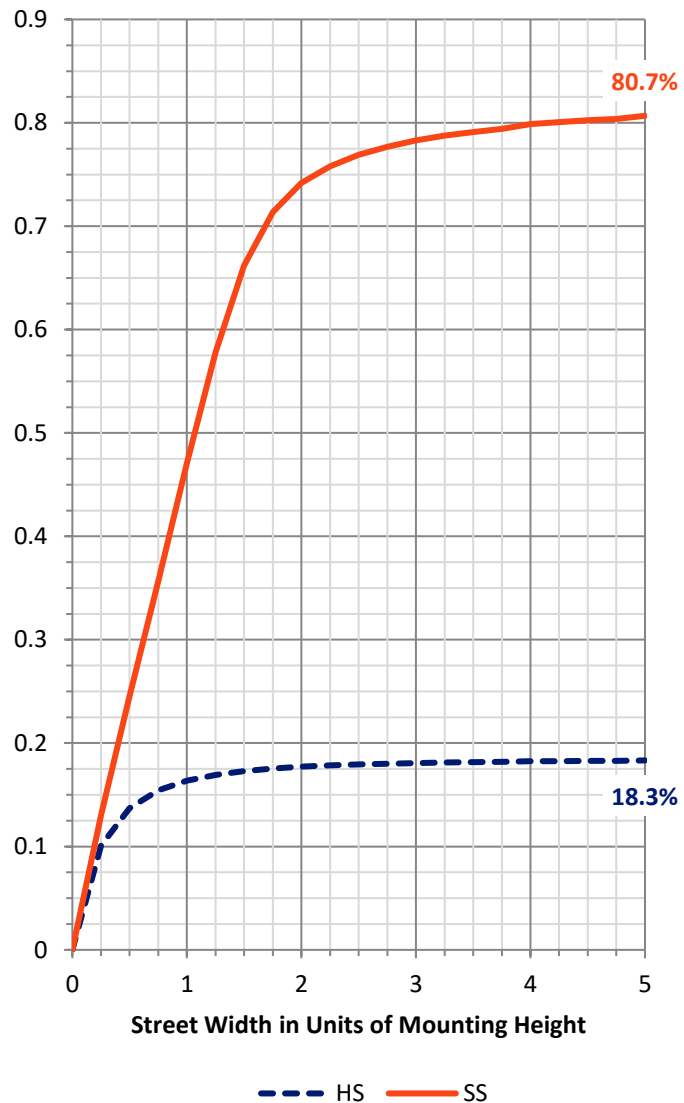
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4931.2	0.0	4931.2
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	21676.8	0.0	21676.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	26608.0	0.0	26608.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	536.5	2.0
10°-20°	1286.9	4.8
20°-30°	1728.6	6.5
30°-40°	2273.9	8.5
40°-50°	3307.9	12.4
50°-60°	5167.3	19.4
60°-70°	6472.9	24.3
70°-80°	4937.4	18.6
80°-90°	896.6	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°	26608.0	100.0
0°-180°	26608.0	100.0

Coefficient of Utilization



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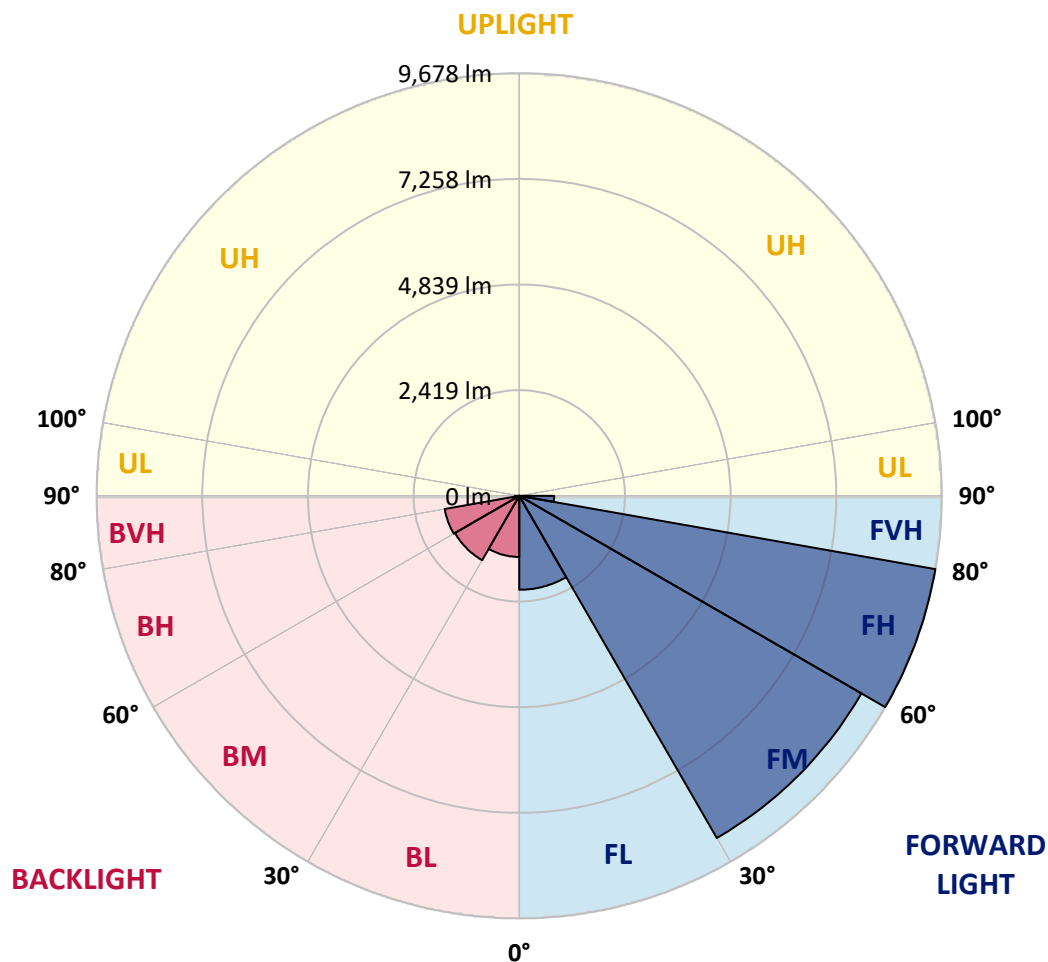
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2151.6	8.1			
FM	(30°-60°)	9048.0	34.0			
FH	(60°-80°)	9677.6	36.4			G4/12000
FVH	(80°-90°)	799.5	3.0			G5
BL	(0°-30°)	1400.3	5.3	B3/2500		
BM	(30°-60°)	1701.1	6.4	B2/2500		
BH	(60°-80°)	1732.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	97.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4
2.5°	5982.4	5973.2	6000.8	6029.2	6040.3	6058.6	6086.2	6101.8	6100.9	6103.6	6094.5
5°	5585.5	5573.6	5628.7	5673.7	5760.1	5857.4	5976.0	6060.5	6062.3	6110.1	6122.9
7.5°	5209.8	5201.5	5264.9	5337.5	5437.6	5586.4	5778.4	5960.3	5971.4	6100.9	6145.9
10°	4908.5	4906.6	4968.2	5047.2	5163.8	5330.1	5550.6	5817.0	5833.6	6056.8	6149.6
12.5°	4673.3	4677.0	4730.2	4820.3	4943.4	5117.0	5355.8	5656.3	5682.9	5987.0	6128.4
15°	4499.6	4514.3	4557.5	4648.5	4769.7	4946.1	5191.4	5507.4	5547.9	5908.9	6116.5
17.5°	4400.4	4417.0	4447.3	4522.6	4636.5	4806.5	5038.9	5385.2	5422.0	5849.2	6117.4
20°	4371.0	4384.8	4402.3	4448.2	4544.7	4699.0	4918.6	5275.0	5314.5	5801.4	6126.6
22.5°	4428.9	4439.0	4440.9	4437.2	4496.0	4621.8	4831.3	5194.2	5236.4	5770.2	6133.0
25°	4552.9	4566.7	4556.6	4522.6	4503.3	4580.5	4786.3	5140.9	5183.1	5747.2	6120.2
27.5°	4739.4	4741.3	4733.0	4688.9	4597.9	4585.1	4772.5	5109.6	5150.1	5720.6	6093.5
30°	4993.0	5004.9	4990.2	4930.5	4781.7	4658.6	4789.0	5079.3	5116.1	5686.6	6050.4
32.5°	5289.7	5319.1	5318.2	5255.7	5042.6	4823.0	4857.0	5061.0	5089.4	5650.7	5998.0
35°	5597.5	5637.9	5713.2	5686.6	5422.9	5083.0	4987.5	5090.4	5109.6	5646.1	5961.3
37.5°	5917.2	5957.6	6112.8	6184.5	5875.8	5455.1	5193.2	5194.2	5203.3	5702.2	5958.5
40°	6251.6	6294.7	6528.1	6714.6	6462.8	5926.3	5524.9	5411.0	5400.9	5840.0	6012.7
42.5°	6720.1	6758.7	7038.9	7276.8	7114.2	6529.9	5983.3	5745.4	5724.2	6110.1	6186.3
45°	7312.6	7345.7	7643.3	7897.8	7814.2	7218.9	6559.3	6205.6	6201.9	6560.2	6538.2
47.5°	8017.2	8043.0	8310.3	8556.5	8586.8	8011.7	7283.2	6915.8	6856.0	7177.6	7082.9
50°	8751.3	8779.7	8961.6	9226.2	9451.3	9072.8	8214.8	7785.7	7705.8	7992.4	7854.6
52.5°	9237.2	9274.9	9432.9	9768.2	10423.2	10235.8	9316.2	8840.4	8719.1	8980.0	8874.4
55°	9020.4	9104.9	9346.6	9884.0	11200.4	12012.5	10674.9	10070.5	9933.6	10150.4	10087.9
57.5°	8034.7	8150.4	8480.2	9309.8	11309.8	13577.9	12729.1	11519.2	11422.7	11360.3	11388.8
60°	6233.2	6344.3	6753.1	7834.4	10548.2	14720.8	15820.4	13305.1	13165.5	12574.8	12600.5
62.5°	4411.5	4355.4	4635.6	5426.6	8571.2	14854.9	19338.0	15693.6	15234.3	13857.2	13744.2
65°	3364.2	3351.3	3477.2	3728.9	5191.4	13250.0	21433.5	19708.2	18990.8	15365.7	15099.3
67.5°	2764.3	2741.3	2865.3	3231.9	3343.0	8548.2	21479.4	24365.9	23661.3	17243.4	16666.5
70°	2272.8	2247.1	2362.8	2835.9	3089.5	4335.2	18077.6	27093.4	27055.8	19621.0	17849.8
71°	2037.6	2019.2	2158.0	2683.4	3035.3	3613.1	15608.2	27100.8	27213.8	20425.7	17779.9
72.5°	1659.1	1665.5	1812.5	2388.5	2994.9	3190.5	11471.4	25837.6	26076.5	21192.8	17145.1
75°	1102.4	1107.9	1300.8	1837.3	2903.9	3121.6	6304.8	21680.6	22119.7	20733.5	15645.0
77.5°	740.4	738.6	870.0	1260.4	2530.0	3121.6	3696.7	16215.5	16697.8	16497.5	12061.2
80°	509.9	506.2	599.0	870.0	1915.4	3159.3	2858.0	11364.0	11510.0	8909.3	4902.0
82.5°	312.3	315.1	391.4	614.6	1303.6	2843.3	2698.1	6196.4	6037.5	2498.8	1224.6
85°	179.1	178.2	249.9	416.2	836.9	2399.6	2631.1	2666.9	2446.4	752.4	442.8
87.5°	64.3	68.9	134.1	230.6	479.5	1671.1	2232.4	1387.2	1250.3	339.9	200.3
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°	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4	6095.4
2.5°	6088.0	6093.5	6087.1	6050.4	6019.1	5968.6	5940.1	5900.6	5888.7	5883.2	5897.9
5°	6111.0	6112.8	6058.6	5962.2	5853.8	5726.1	5634.2	5521.2	5467.9	5445.0	5459.7
7.5°	6132.1	6123.9	6005.3	5820.7	5620.4	5398.1	5200.6	5019.6	4914.0	4870.8	4874.5
10°	6134.9	6100.0	5909.8	5624.1	5313.6	4987.5	4684.3	4405.0	4228.6	4113.8	4148.7
12.5°	6106.4	6047.6	5769.2	5369.6	4938.8	4494.1	4084.4	3665.5	3413.8	3297.1	3300.8
15°	6084.4	5977.8	5596.5	5070.1	4491.4	3902.5	3343.0	2850.6	2582.4	2463.0	2406.9
17.5°	6066.0	5902.5	5396.3	4733.0	3963.1	3216.3	2543.8	2104.7	1957.7	1922.8	1908.1
20°	6040.3	5822.5	5173.0	4342.6	3361.4	2448.3	1857.6	1640.7	1641.7	1682.1	1687.6
22.5°	6004.4	5731.6	4935.1	3904.3	2715.6	1783.1	1456.1	1393.6	1457.0	1534.2	1548.0
25°	5951.1	5624.1	4670.5	3420.2	2070.7	1370.7	1243.9	1241.1	1318.3	1399.1	1411.1
27.5°	5875.8	5483.5	4376.5	2900.2	1525.9	1164.9	1114.3	1133.6	1190.6	1249.4	1254.0
30°	5774.8	5320.0	4052.3	2351.8	1196.1	1037.2	1031.7	1049.1	1084.0	1125.4	1129.0
32.5°	5663.6	5153.7	3705.9	1820.8	1024.3	968.3	973.8	982.1	998.6	1015.1	1018.8
35°	5562.5	4983.8	3351.3	1383.5	942.6	923.3	919.6	917.8	919.6	914.1	915.0
37.5°	5497.3	4843.2	2982.0	1101.5	895.7	883.8	872.7	859.0	843.3	834.2	836.0
40°	5473.4	4738.5	2608.1	951.7	857.1	848.9	827.7	798.3	780.0	774.4	774.4
42.5°	5537.7	4684.3	2247.1	876.4	825.0	811.2	776.3	742.3	728.5	727.6	726.7
45°	5734.3	4706.3	1903.5	835.1	795.6	768.9	723.0	694.5	685.3	687.2	686.2
47.5°	6087.1	4845.1	1609.5	807.5	766.2	731.3	679.8	656.8	645.8	645.8	646.7
50°	6687.0	5169.4	1375.2	784.5	741.4	696.4	648.6	620.1	605.4	604.5	604.5
52.5°	7560.7	5750.0	1229.2	765.3	713.8	665.1	617.3	581.5	564.1	560.4	558.6
55°	8655.7	6582.3	1188.8	752.4	677.1	631.1	579.7	543.9	524.6	516.3	515.4
57.5°	9880.3	7594.6	1268.7	736.8	639.4	590.7	538.3	504.4	484.1	474.0	473.1
60°	11119.6	8699.8	1594.8	714.7	608.2	546.6	496.1	464.8	444.6	433.6	431.8
62.5°	12360.7	9864.7	2260.8	712.9	586.1	504.4	452.9	426.3	407.0	395.0	392.3
65°	13760.8	11139.8	3017.8	761.6	578.8	465.8	408.8	387.7	371.1	360.1	359.2
67.5°	15368.4	12579.4	2945.3	861.7	603.6	430.9	367.5	350.9	339.0	329.8	328.9
70°	16122.7	12354.3	1830.9	932.5	638.5	396.9	328.0	316.0	306.8	300.4	297.6
71°	15806.6	11730.5	1535.1	924.2	634.8	382.2	312.3	303.2	294.0	288.5	285.7
72.5°	14944.9	10697.9	1280.6	859.9	593.5	355.5	292.1	283.0	274.7	268.3	266.4
75°	13410.7	9554.2	1025.2	687.2	473.1	300.4	256.3	246.2	239.8	236.1	232.4
77.5°	9858.3	6818.4	792.8	542.9	348.2	245.3	218.6	211.3	204.9	199.4	196.6
80°	3776.7	2641.2	533.7	405.1	255.4	193.8	176.4	172.7	166.3	162.6	162.6
82.5°	1017.0	789.1	284.8	245.3	170.9	141.5	135.0	133.2	127.7	120.3	121.3
85°	411.6	348.2	159.8	135.0	104.7	83.6	90.9	91.9	85.4	76.2	77.2
87.5°	181.0	147.9	89.1	59.7	45.9	32.2	41.3	41.3	37.7	31.2	28.5
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)