

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: P319919

Luminaire Tested: **GAN-SA5B-727-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22697 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 210
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

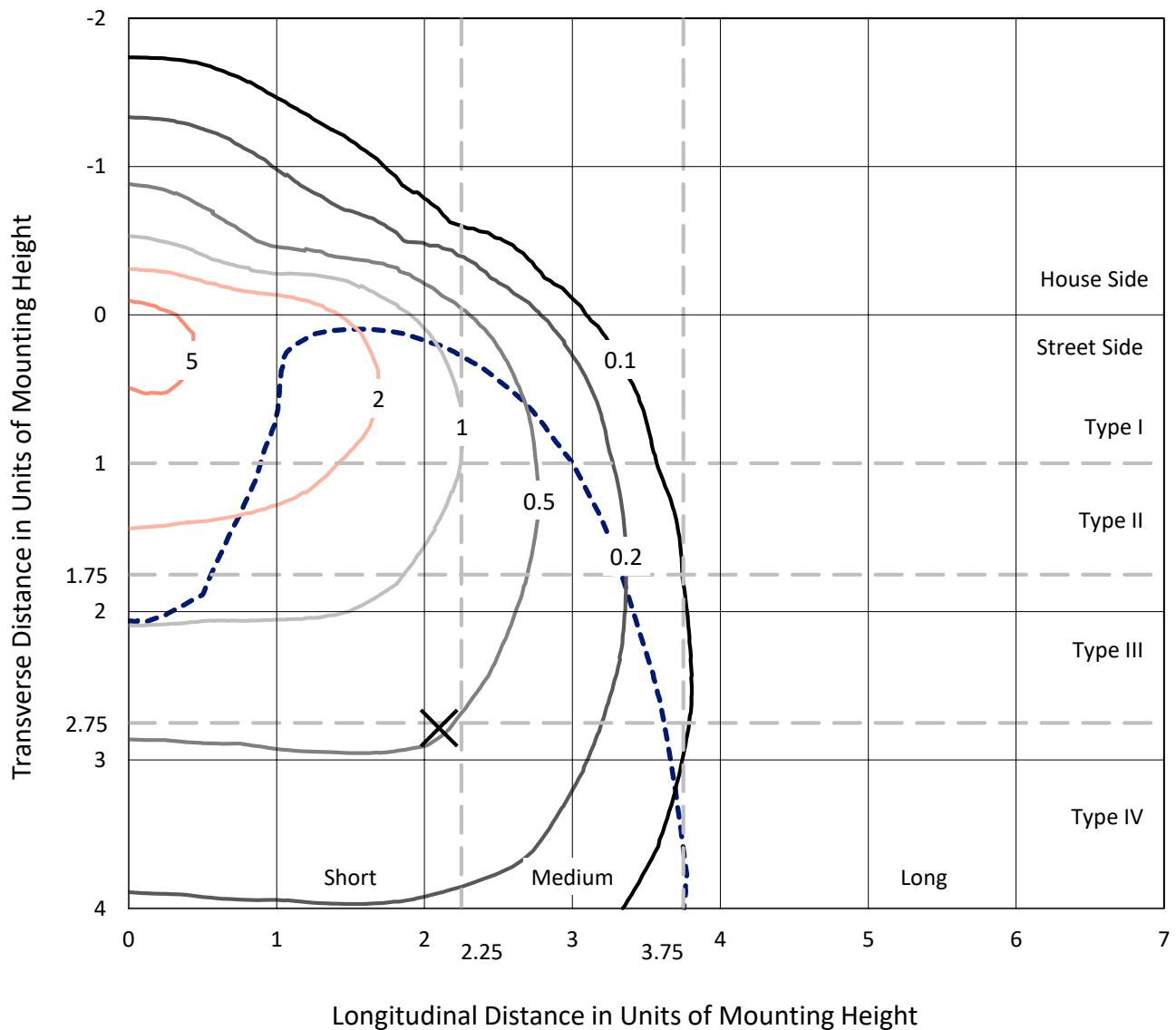


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Iso-Footcandle Lines of Horizontal Illumination

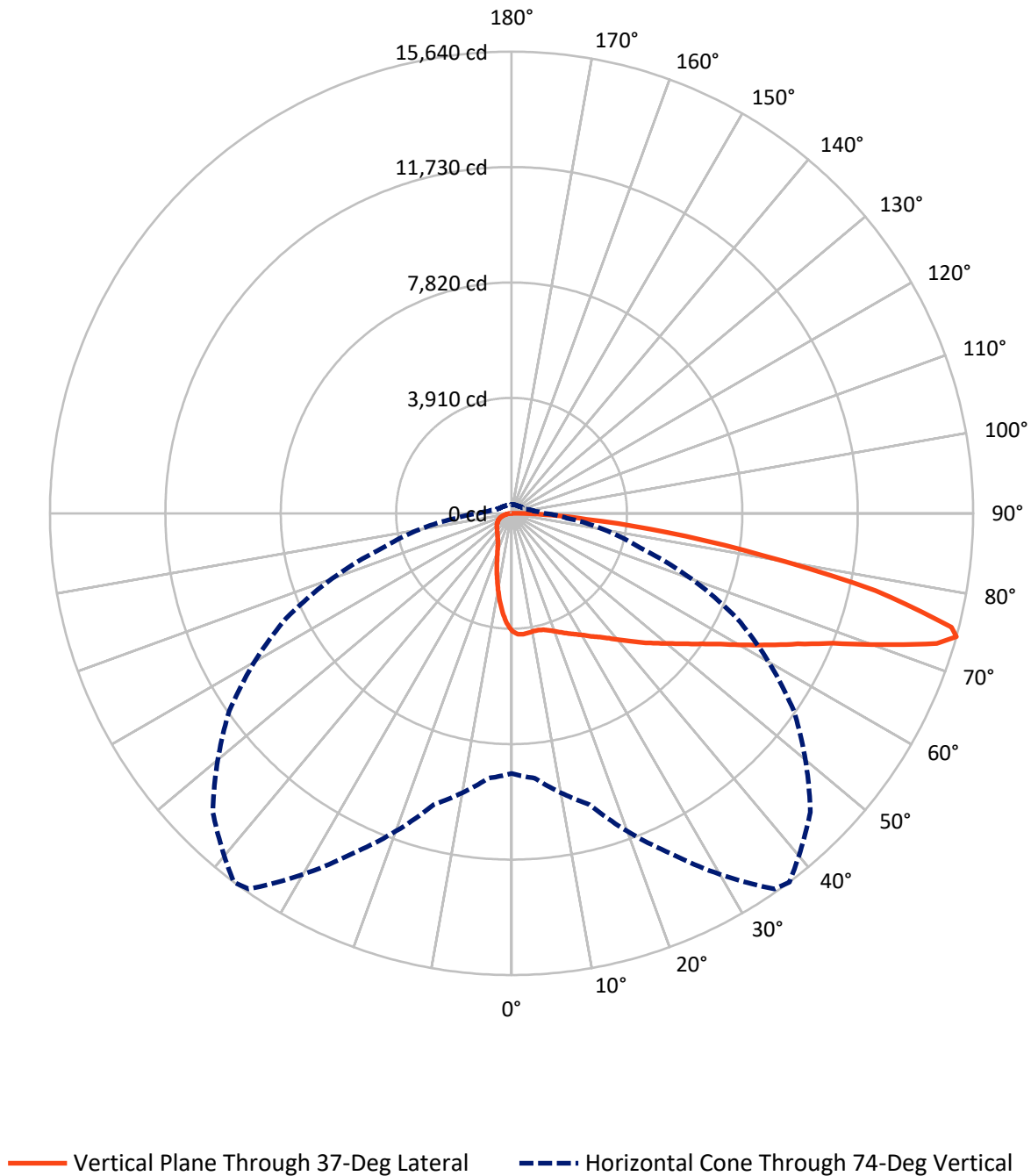
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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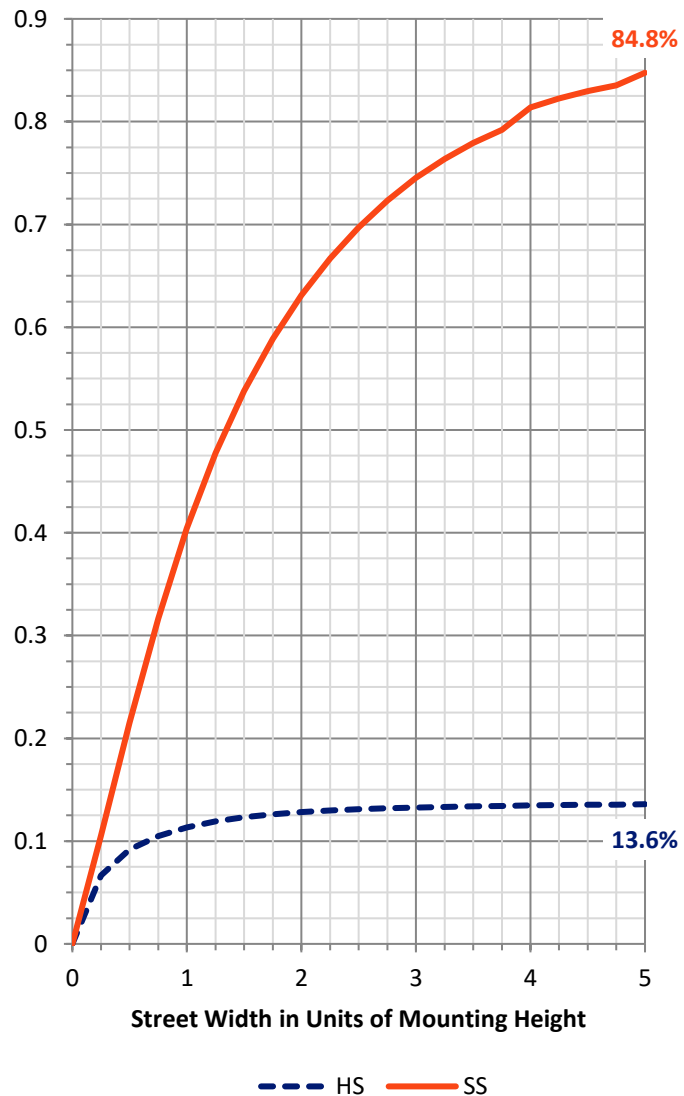
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3123.0	0.0	3123.0
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	19574.0	0.0	19574.0
	% Fixture	86.2	0.0	86.2
Total	Lumens	22697.0	0.0	22697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.2	1.6
10°-20°	902.7	4.0
20°-30°	1390.9	6.1
30°-40°	2022.5	8.9
40°-50°	2976.9	13.1
50°-60°	4180.4	18.4
60°-70°	5291.2	23.3
70°-80°	4659.1	20.5
80°-90°	921.2	4.1
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°	22697.0	100.0
0°-180°	22697.0	100.0

Coefficient of Utilization



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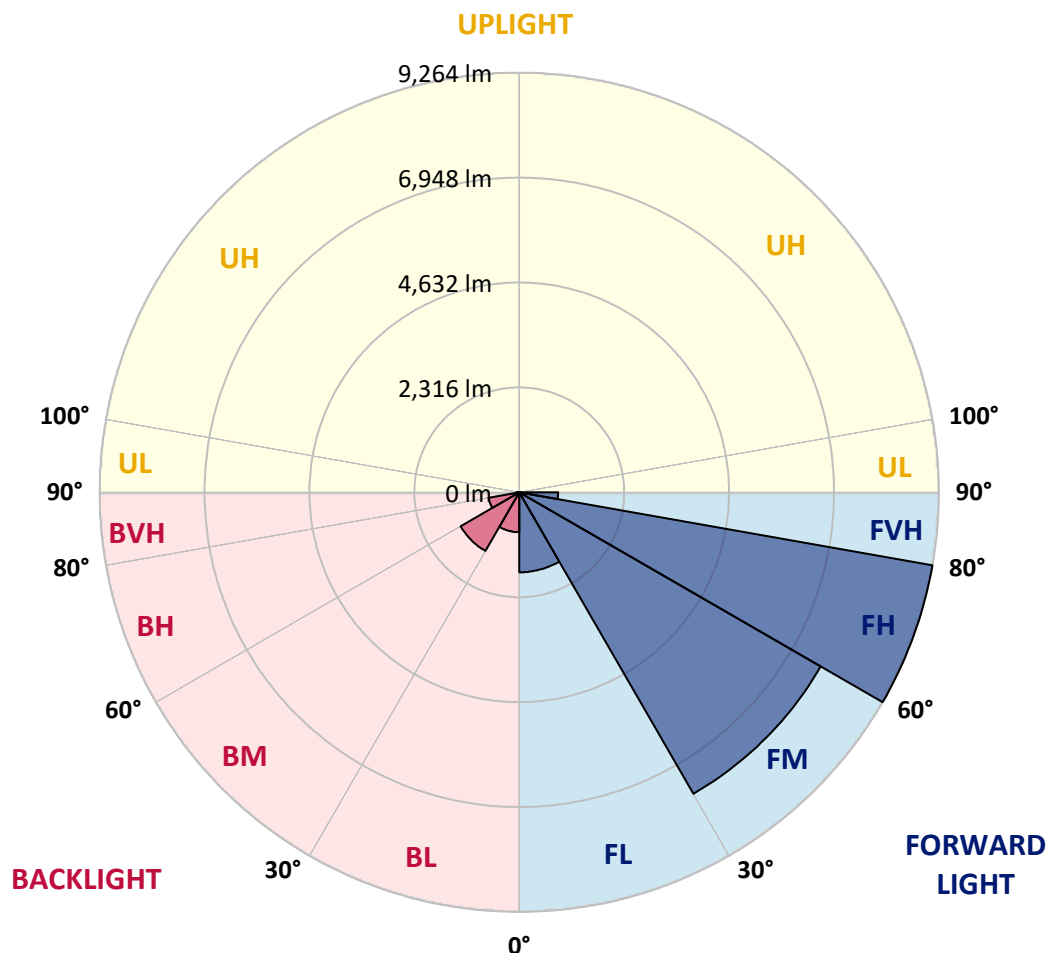
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1766.1	7.8			
FM	(30°-60°)	7685.4	33.9			
FH	(60°-80°)	9263.8	40.8			G4/12000
FVH	(80°-90°)	858.8	3.8			G5
BL	(0°-30°)	879.7	3.9	B2/1000		
BM	(30°-60°)	1494.5	6.6	B2/2500		
BH	(60°-80°)	686.5	3.0	B2/1000		G2/1000
BVH	(80°-90°)	62.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1
2.5°	4135.8	4136.6	4135.8	4129.4	4114.3	4101.5	4091.1	4075.9	4042.3	4016.7	3978.3
5°	4175.0	4170.2	4167.0	4155.0	4131.0	4116.7	4096.7	4067.9	4012.7	3961.5	3899.2
7.5°	4156.6	4151.0	4143.8	4129.4	4102.3	4090.3	4062.3	4024.7	3958.3	3891.2	3801.6
10°	4099.9	4098.3	4095.1	4091.9	4068.7	4059.1	4033.5	3993.5	3928.0	3846.4	3741.7
12.5°	4036.7	4040.7	4053.5	4070.3	4059.9	4055.1	4039.1	4011.9	3944.8	3856.8	3730.5
15°	3996.7	4007.9	4042.3	4086.3	4095.1	4093.5	4089.5	4071.9	4000.7	3903.2	3756.1
17.5°	3983.1	4001.5	4067.1	4139.8	4165.4	4171.0	4172.6	4142.2	4063.1	3959.9	3782.5
20°	4007.9	4031.1	4127.0	4227.0	4267.8	4271.0	4263.8	4211.0	4122.2	4008.7	3796.8
22.5°	4083.1	4103.9	4223.8	4336.5	4382.9	4387.7	4366.1	4286.1	4184.6	4066.3	3816.8
25°	4227.8	4253.4	4373.3	4486.0	4510.0	4510.8	4479.6	4380.5	4266.2	4147.0	3860.0
27.5°	4416.5	4442.0	4550.0	4660.3	4647.5	4640.3	4598.0	4498.8	4372.5	4258.2	3936.8
30°	4626.7	4654.7	4757.1	4835.4	4805.0	4790.6	4756.3	4628.3	4520.4	4410.1	4054.3
32.5°	4844.2	4869.8	4959.3	5012.9	4974.5	4968.1	4916.2	4799.4	4713.1	4641.9	4244.6
35°	5067.3	5085.7	5173.6	5204.0	5152.8	5151.2	5136.8	5029.7	4975.3	5008.9	4521.2
37.5°	5295.1	5299.9	5375.1	5376.7	5361.5	5367.9	5383.1	5315.9	5331.1	5435.8	4881.0
40°	5498.2	5511.0	5565.4	5582.1	5608.5	5630.9	5706.9	5662.9	5780.4	5965.9	5328.7
42.5°	5648.5	5673.3	5760.4	5803.6	5889.2	5924.3	6031.5	6072.2	6308.9	6587.1	5861.2
45°	5775.6	5814.0	5953.9	6042.7	6187.4	6248.9	6402.4	6539.2	6906.1	7261.1	6421.6
47.5°	5913.1	5961.9	6137.0	6306.5	6503.2	6572.7	6851.8	7056.4	7543.3	7939.1	6950.1
50°	6115.4	6153.0	6324.1	6590.3	6835.8	6925.3	7311.5	7604.9	8190.9	8585.1	7408.2
52.5°	6397.6	6383.2	6528.0	6901.3	7230.7	7341.1	7802.4	8188.5	8847.3	9169.5	7795.2
55°	6681.5	6657.5	6759.0	7226.7	7691.2	7807.2	8342.8	8774.6	9471.7	9695.6	8091.8
57.5°	6997.3	6951.7	7037.2	7593.7	8215.7	8354.0	8948.1	9397.4	10085.8	10120.9	8280.5
60°	7322.7	7261.1	7357.0	8048.6	8881.7	9044.8	9656.4	10005.0	10664.6	10461.5	8341.2
62.5°	7607.3	7564.1	7712.0	8556.3	9632.4	9811.5	10352.0	10651.0	11235.4	10603.0	8122.2
65°	7855.9	7863.1	8119.0	9127.1	10469.5	10660.6	11149.9	11447.3	11684.8	10519.1	7609.7
67.5°	8152.6	8193.3	8629.9	9878.7	11523.3	11732.7	12310.8	12315.6	11935.8	10026.6	6600.7
70°	8585.1	8669.0	9332.6	10921.2	13021.5	13309.4	13755.5	12825.7	11583.2	8691.4	5193.6
72.5°	8968.8	9125.5	10080.2	12114.1	14847.6	15065.9	14600.6	12531.4	10109.7	6513.6	3235.6
74°	8812.9	9007.2	10216.1	12701.7	15535.2	15639.9	14315.1	11672.8	8429.2	4510.8	1880.4
75°	8477.2	8688.2	10017.8	12696.1	15448.0	15389.7	13626.0	10691.8	6942.1	3076.5	1251.2
77.5°	6841.4	7064.4	8441.2	10881.3	12666.6	12611.4	10467.1	7172.4	3040.5	1009.0	635.6
80°	3977.5	4147.8	5240.0	6910.1	8541.1	8641.0	6883.7	3549.0	1196.1	566.8	430.9
82.5°	1766.9	1884.4	2531.2	3527.4	5154.4	5283.1	3605.0	1859.6	738.7	344.6	259.0
85°	1159.3	1246.4	1536.6	1679.8	2454.5	2542.4	1764.5	1447.9	487.7	189.5	190.3
87.5°	833.9	917.8	1141.7	997.0	1126.5	1066.5	960.2	1340.0	195.9	107.9	64.0
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°	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1	3999.1
2.5°	3961.5	3948.8	3920.0	3865.6	3835.2	3809.6	3767.3	3742.5	3731.3	3730.5	3735.3
5°	3863.2	3833.6	3759.3	3668.1	3595.4	3529.0	3446.7	3397.1	3361.9	3341.1	3346.7
7.5°	3748.9	3702.5	3585.8	3440.3	3323.5	3194.8	3067.7	2991.7	2932.6	2888.6	2896.6
10°	3670.5	3606.6	3436.3	3226.8	3032.5	2845.4	2670.3	2565.6	2482.5	2418.5	2423.3
12.5°	3644.1	3557.8	3321.9	3042.1	2769.5	2513.6	2285.0	2124.3	2038.7	1966.0	1971.6
15°	3648.1	3532.2	3226.0	2875.8	2532.8	2210.6	1933.2	1745.3	1629.4	1579.0	1579.8
17.5°	3651.3	3502.6	3125.3	2697.5	2298.6	1927.6	1626.2	1435.9	1326.4	1280.0	1280.8
20°	3640.9	3454.7	3000.5	2492.9	2053.9	1667.8	1375.9	1214.4	1131.3	1095.3	1095.3
22.5°	3627.4	3397.9	2859.8	2287.4	1812.5	1442.3	1196.9	1073.7	1025.8	1001.8	1001.0
25°	3633.7	3355.5	2715.9	2076.3	1590.2	1262.4	1077.7	996.2	964.2	949.0	948.2
27.5°	3668.1	3335.5	2583.2	1866.0	1395.9	1127.3	997.8	940.2	919.4	909.8	909.8
30°	3730.5	3335.5	2444.9	1687.0	1234.4	1027.4	936.2	897.0	882.7	876.3	876.3
32.5°	3839.2	3353.9	2311.4	1509.5	1105.7	949.0	885.1	858.7	847.5	844.3	844.3
35°	4026.3	3416.3	2181.0	1341.6	1001.8	885.1	836.3	821.1	813.1	812.3	814.7
37.5°	4289.3	3543.4	2058.7	1217.6	928.2	833.1	795.5	783.5	778.7	782.7	785.9
40°	4620.3	3716.1	1947.6	1105.7	872.3	791.5	757.9	749.9	747.5	753.1	757.9
42.5°	5020.1	3949.6	1856.5	1025.0	829.1	756.3	726.0	716.4	714.0	720.4	726.7
45°	5452.6	4200.6	1792.5	965.0	795.5	729.9	698.0	687.6	682.8	686.0	693.2
47.5°	5846.0	4438.1	1766.9	922.6	763.5	707.6	673.2	660.4	652.4	650.8	656.4
50°	6177.8	4614.7	1778.9	897.0	737.9	682.8	649.2	634.8	622.8	615.6	619.6
52.5°	6419.2	4725.9	1790.1	885.9	718.0	655.6	622.8	609.2	593.2	581.2	581.2
55°	6594.3	4751.5	1765.3	877.1	702.8	626.0	593.2	580.4	564.5	550.9	549.3
57.5°	6663.1	4679.5	1673.4	864.3	692.4	598.0	562.1	552.5	538.9	522.9	522.1
60°	6570.3	4457.2	1495.9	837.1	678.8	574.8	530.9	524.5	518.1	502.9	502.1
62.5°	6197.8	3969.5	1266.4	781.9	651.6	550.1	502.1	505.3	506.1	495.7	494.1
65°	5522.2	3299.6	1042.6	710.0	610.8	520.5	472.5	487.7	496.5	494.9	492.5
67.5°	4540.4	2568.0	883.5	634.0	557.3	479.7	440.5	458.1	465.3	470.9	469.3
70°	3369.9	1810.9	730.7	554.1	492.5	431.7	399.0	407.7	403.0	409.3	411.7
72.5°	1878.8	1086.5	595.6	474.1	425.3	375.8	352.6	351.0	340.6	340.6	340.6
74°	1127.3	797.1	523.7	424.5	384.6	339.0	319.0	311.8	302.2	303.0	302.2
75°	906.6	685.2	480.5	391.8	355.8	317.4	297.4	287.8	280.6	280.6	279.8
77.5°	572.4	520.5	387.0	311.8	284.6	261.4	247.8	235.1	235.1	234.3	233.5
80°	432.5	414.1	301.4	235.9	218.3	200.7	191.9	186.3	186.3	188.7	187.9
82.5°	296.6	311.8	211.9	164.7	155.9	143.1	141.5	142.3	139.9	136.7	135.9
85°	216.7	234.3	143.1	103.9	95.1	87.1	93.5	96.7	92.7	85.5	82.3
87.5°	83.1	153.5	76.8	43.2	40.0	34.4	40.0	41.6	44.8	35.2	36.0
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)