

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: P317687

Luminaire Tested: **GAN-SA3C-727-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317687
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3C-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18464 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 166
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



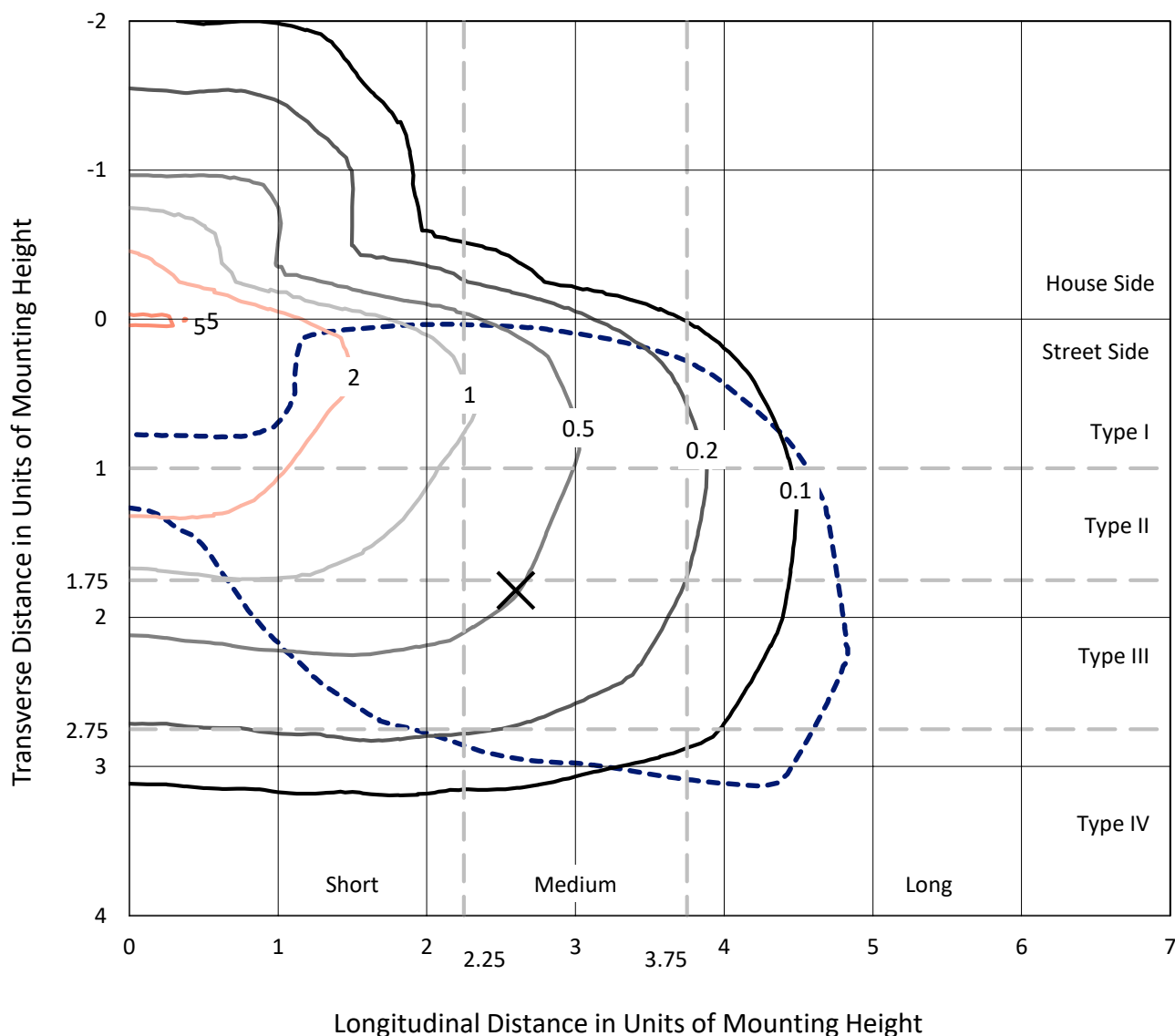
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

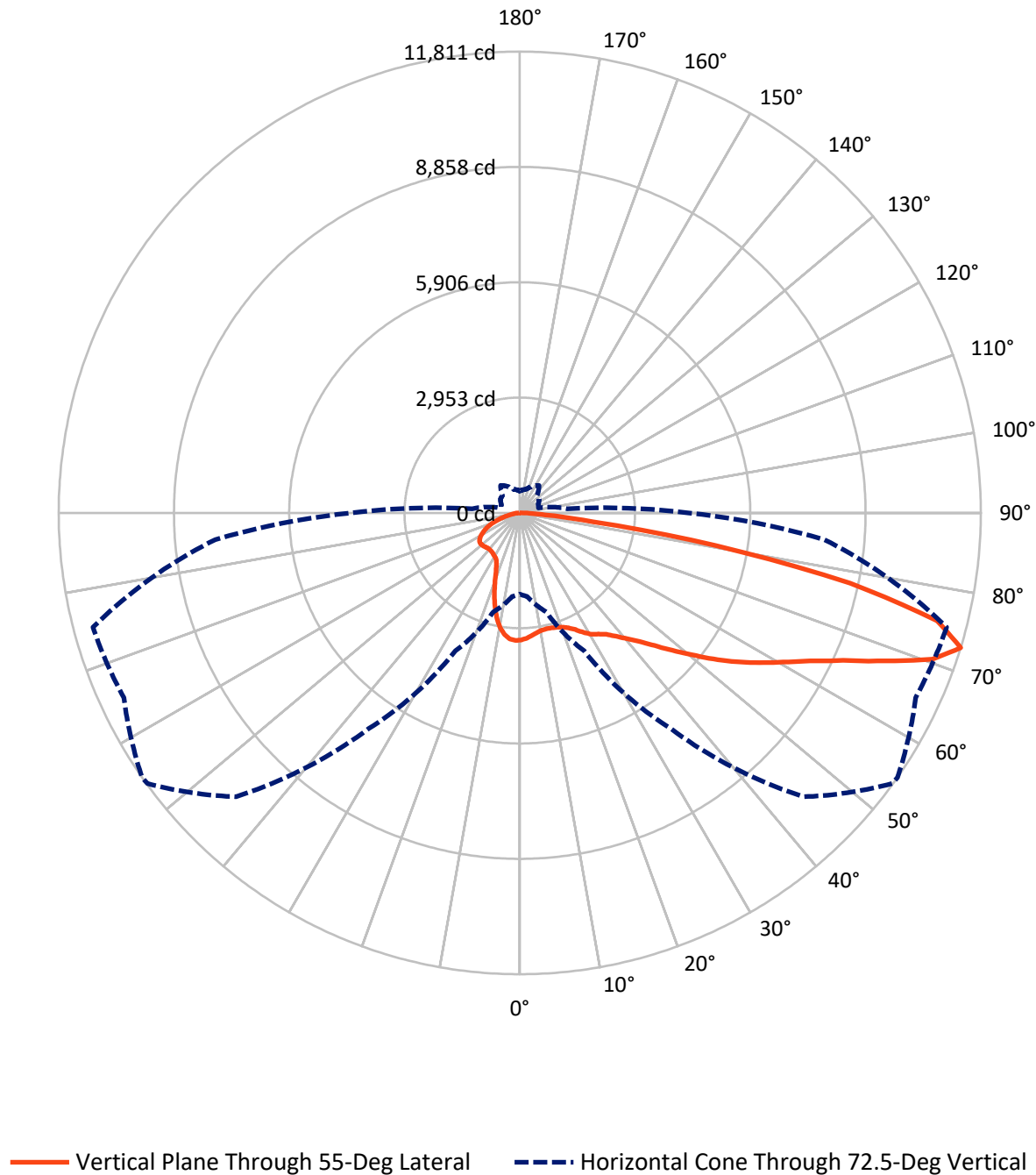
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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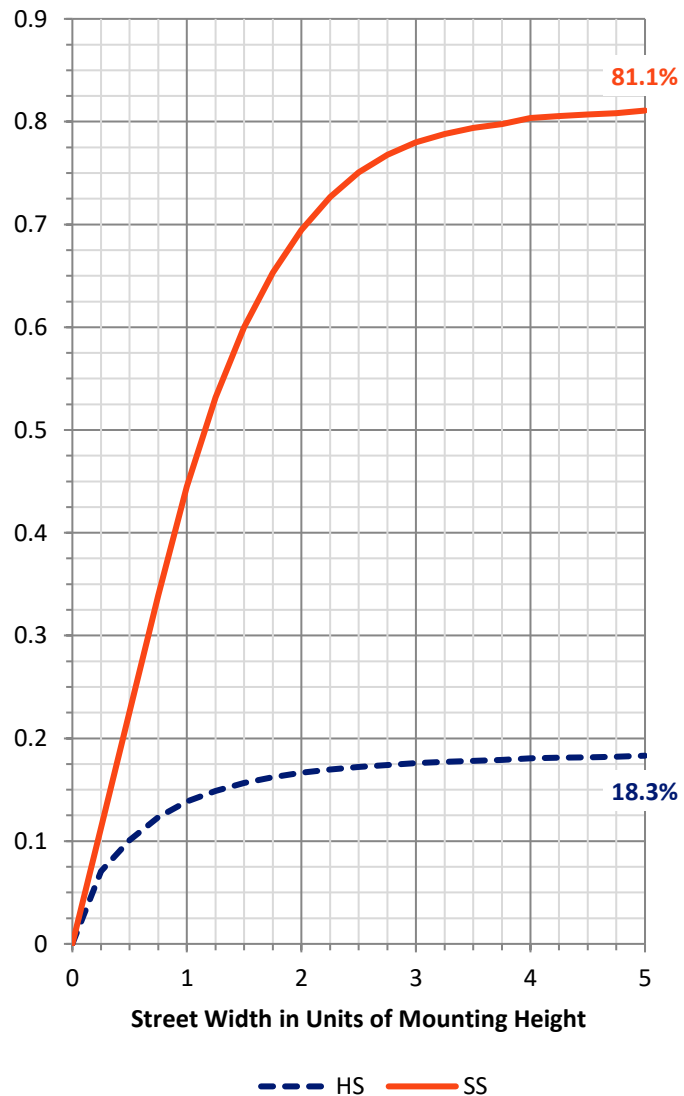
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3431.9	0.0	3431.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15032.1	0.0	15032.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	18464.0	0.0	18464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.7	1.6
10°-20°	784.6	4.2
20°-30°	1293.6	7.0
30°-40°	1913.5	10.4
40°-50°	2670.8	14.5
50°-60°	3477.5	18.8
60°-70°	4273.8	23.1
70°-80°	3350.1	18.1
80°-90°	405.4	2.2
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°	18464.0	100.0
0°-180°	18464.0	100.0

Coefficient of Utilization



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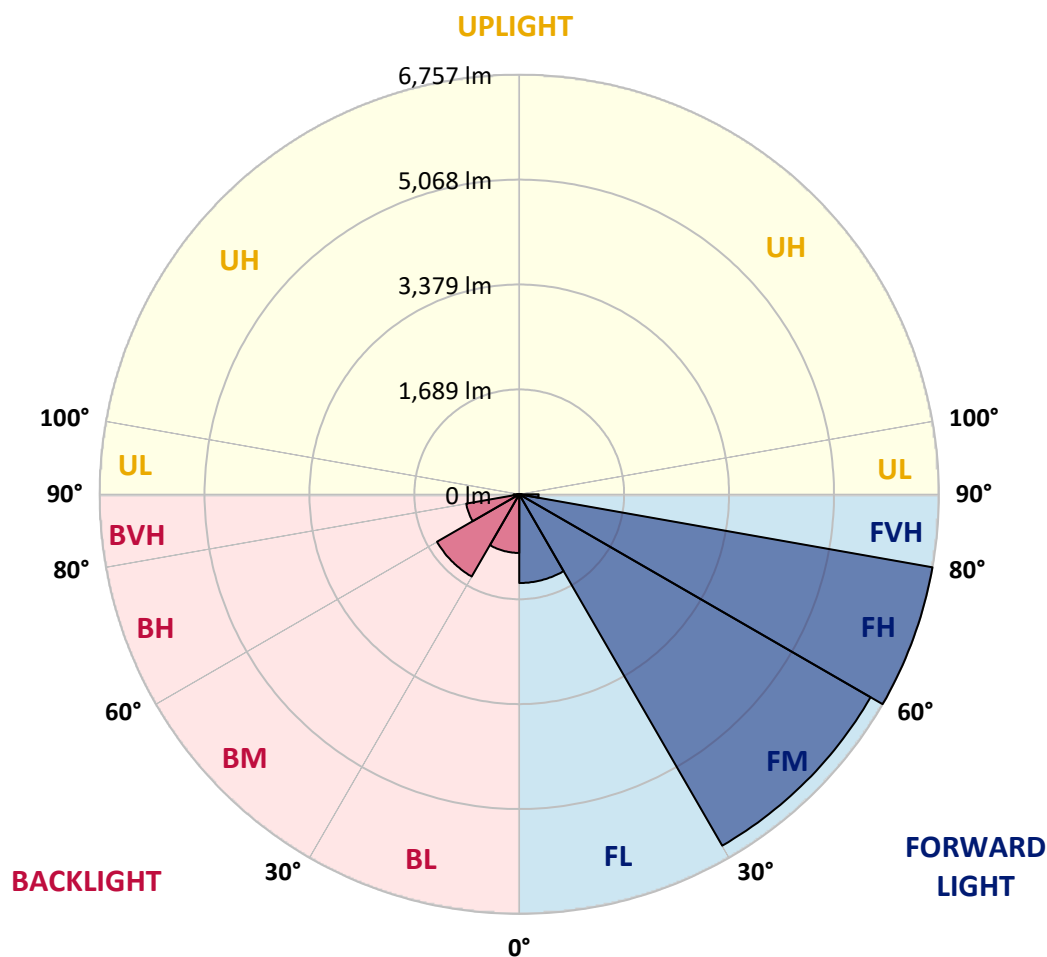
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1428.6	7.7			
FM	(30°-60°)	6532.9	35.4			
FH	(60°-80°)	6757.2	36.6			G3/7500
FVH	(80°-90°)	313.4	1.7			G3/500
BL	(0°-30°)	944.2	5.1	B2/1000		
BM	(30°-60°)	1528.9	8.3	B2/2500		
BH	(60°-80°)	866.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	92.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7
2.5°	3150.6	3143.1	3152.5	3165.6	3179.9	3199.3	3210.5	3215.5	3234.8	3242.3	3258.5
5°	3004.7	3001.0	3016.6	3039.0	3070.8	3115.7	3151.9	3158.7	3209.9	3246.1	3279.1
7.5°	2898.7	2898.7	2916.8	2943.6	2979.1	3039.6	3090.8	3100.1	3186.8	3264.8	3325.9
10°	2814.5	2817.6	2838.8	2870.6	2912.4	2976.6	3044.6	3055.2	3180.6	3308.4	3405.7
12.5°	2758.4	2765.8	2785.2	2813.9	2865.6	2943.6	3029.6	3044.0	3193.7	3370.8	3501.7
15°	2793.9	2806.4	2808.3	2820.1	2848.8	2933.6	3038.4	3053.3	3221.7	3434.4	3610.9
17.5°	2949.8	2954.2	2934.9	2909.9	2896.2	2950.4	3064.6	3080.2	3255.4	3497.4	3715.7
20°	3186.8	3184.3	3142.5	3075.2	3005.3	3014.1	3107.6	3123.8	3300.9	3552.9	3820.4
22.5°	3486.2	3477.4	3413.2	3289.1	3170.0	3120.1	3183.1	3196.8	3369.5	3632.1	3932.7
25°	3849.1	3829.8	3745.0	3578.5	3403.2	3274.7	3296.6	3309.7	3469.3	3720.6	4035.6
27.5°	4232.0	4212.7	4104.8	3903.4	3670.1	3469.9	3453.1	3464.3	3582.8	3786.1	4111.7
30°	4632.4	4611.8	4513.3	4287.5	3953.3	3672.0	3599.0	3603.4	3662.6	3821.7	4174.0
32.5°	5034.7	5015.3	4904.9	4643.0	4260.7	3889.0	3704.4	3698.8	3710.7	3858.5	4244.5
35°	5442.5	5450.0	5320.9	5030.9	4601.2	4130.4	3829.2	3817.3	3791.1	3933.9	4344.3
37.5°	5879.1	5874.1	5706.9	5403.8	4957.3	4392.3	4008.1	4006.3	3915.8	4076.7	4500.8
40°	6170.9	6174.0	6072.4	5785.5	5317.2	4682.3	4237.6	4233.3	4114.8	4290.6	4706.0
42.5°	6285.1	6305.6	6331.8	6149.7	5693.8	5018.4	4511.4	4505.2	4392.3	4597.5	4947.3
45°	6293.2	6334.3	6496.5	6473.4	6075.5	5403.2	4861.3	4843.8	4762.7	5005.3	5235.5
47.5°	6223.3	6265.7	6535.1	6666.1	6416.6	5809.2	5270.4	5256.7	5186.8	5515.5	5547.3
50°	6070.5	6111.1	6455.3	6760.3	6697.3	6199.6	5741.9	5705.7	5668.3	6104.8	5904.0
52.5°	5784.3	5862.2	6348.7	6782.7	6865.0	6546.4	6237.7	6214.0	6234.5	6726.6	6261.4
55°	5106.4	5193.7	6073.6	6764.0	6989.1	6837.6	6733.4	6732.2	6838.8	7378.9	6644.9
57.5°	4726.6	4788.3	5513.6	6732.2	7136.3	7127.0	7224.3	7236.1	7443.8	8089.2	7046.5
60°	4512.0	4576.9	5229.9	6614.3	7364.6	7501.2	7725.0	7748.7	8058.7	8875.7	7529.8
62.5°	4316.8	4387.9	5054.0	6374.2	7633.4	8036.2	8325.0	8346.2	8709.8	9683.9	7996.9
65°	3983.2	4063.6	4796.4	6216.5	7877.8	8734.1	9087.7	9102.0	9457.5	10530.8	8354.3
67.5°	3511.7	3585.3	4310.6	5867.8	8058.7	9581.6	10101.7	10109.8	10199.0	11128.9	8537.0
70°	2961.0	2989.1	3618.4	5148.2	7844.8	10374.3	11213.1	11214.9	10875.0	11511.8	8507.1
72.5°	2080.5	2146.6	2626.8	3897.1	6741.6	10277.6	11789.9	11811.1	11189.4	11318.5	7827.3
75°	1276.0	1345.8	1647.7	2361.7	4276.9	8083.0	10893.1	11040.3	10600.0	10091.8	6394.2
77.5°	853.1	879.3	1075.2	1377.0	1937.7	4650.5	8374.9	8651.8	8805.8	7359.6	4089.2
80°	475.8	525.7	712.8	855.6	861.9	1847.8	5021.6	5086.4	4899.3	2930.5	1261.6
82.5°	252.0	279.4	475.8	502.7	470.2	618.7	1871.5	1873.4	1565.3	785.8	374.8
85°	195.2	218.3	326.2	306.8	240.1	274.4	617.4	651.1	532.6	321.8	122.2
87.5°	97.3	121.0	221.4	194.6	94.2	78.6	220.8	235.7	210.2	126.0	44.3
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°	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7	3256.7
2.5°	3264.8	3270.4	3277.2	3269.7	3267.3	3257.3	3240.4	3236.7	3228.0	3228.6	3233.6
5°	3293.4	3302.8	3299.1	3270.4	3236.1	3188.1	3138.2	3095.8	3067.7	3065.8	3063.9
7.5°	3348.3	3354.6	3325.3	3243.6	3147.5	3036.5	2931.7	2840.1	2784.6	2770.8	2767.7
10°	3434.4	3433.1	3352.7	3188.1	2996.6	2798.3	2629.9	2502.7	2428.5	2406.6	2401.0
12.5°	3530.4	3516.1	3362.0	3087.0	2783.3	2508.3	2295.0	2153.4	2076.1	2051.2	2044.9
15°	3629.6	3594.0	3339.0	2936.1	2521.4	2195.8	1972.0	1841.0	1799.2	1785.5	1783.0
17.5°	3721.9	3653.3	3272.9	2731.5	2222.7	1884.6	1710.0	1657.6	1667.6	1685.7	1686.3
20°	3812.3	3693.2	3166.8	2473.4	1907.7	1628.3	1569.1	1607.7	1655.1	1691.9	1696.9
22.5°	3901.5	3721.3	3030.3	2175.3	1625.8	1484.3	1526.0	1596.5	1650.8	1690.7	1697.6
25°	3976.3	3728.1	2841.9	1857.2	1430.0	1430.0	1505.5	1572.2	1625.8	1665.1	1672.0
27.5°	4003.8	3682.0	2576.3	1562.8	1331.5	1405.1	1476.8	1532.3	1577.8	1619.6	1627.1
30°	4014.4	3596.5	2269.4	1326.5	1290.9	1378.2	1438.1	1485.5	1528.5	1567.8	1574.7
32.5°	4016.2	3493.6	1943.9	1192.4	1262.9	1350.2	1390.1	1431.9	1478.0	1493.6	1496.1
35°	4028.1	3372.0	1600.9	1123.8	1236.7	1324.0	1355.8	1385.7	1310.9	1316.5	1321.5
37.5°	4062.4	3251.7	1314.0	1085.1	1219.8	1310.3	1348.3	1239.8	1181.2	1167.5	1165.6
40°	4126.6	3123.2	1101.3	1054.0	1213.6	1317.1	1300.3	1157.5	1056.4	981.0	969.8
42.5°	4215.8	2984.7	965.4	1033.4	1218.0	1350.2	1233.6	1078.3	910.5	861.9	855.6
45°	4316.2	2839.4	891.8	1019.0	1232.9	1375.8	1219.8	972.9	842.5	805.7	802.6
47.5°	4413.5	2661.7	853.8	1012.8	1253.5	1355.2	1161.8	940.5	810.1	790.8	792.6
50°	4525.1	2501.4	830.7	1005.9	1271.6	1342.1	1096.4	923.6	797.6	821.3	846.3
52.5°	4619.3	2335.5	810.1	992.2	1278.5	1319.0	1079.5	926.7	797.6	843.2	866.9
55°	4730.9	2210.2	786.4	963.5	1265.4	1253.5	1067.7	945.4	807.0	778.3	780.8
57.5°	4875.0	2169.0	760.2	918.6	1221.7	1158.1	1062.1	963.5	801.4	783.3	789.5
60°	5074.6	2212.7	749.6	860.0	1153.7	1083.3	1062.7	954.2	762.1	730.9	731.5
62.5°	5264.8	2261.3	749.0	823.2	1070.2	1016.5	1048.3	923.6	742.1	724.0	730.9
65°	5327.1	2212.1	719.1	782.0	976.0	936.7	1022.1	891.2	727.2	699.7	698.5
67.5°	5243.6	2059.3	658.6	715.3	868.1	843.8	987.8	852.5	703.5	681.0	677.3
70°	4995.4	1718.1	583.7	627.4	745.3	739.0	933.6	807.6	671.7	652.3	636.1
72.5°	4327.4	1224.2	492.1	522.0	606.8	626.8	858.8	749.0	626.8	585.0	560.0
75°	3554.1	906.2	404.1	410.4	460.9	515.1	755.9	680.4	573.7	502.7	483.3
77.5°	2176.5	554.4	321.8	324.3	330.5	411.0	622.4	603.7	506.4	419.1	405.4
80°	704.7	302.5	232.6	244.5	225.8	301.2	481.5	513.9	434.7	350.5	335.5
82.5°	268.2	176.5	157.2	165.3	156.5	202.1	351.1	411.6	356.1	288.1	234.5
85°	129.7	99.8	92.9	104.1	96.7	103.5	224.5	303.1	270.0	187.7	174.6
87.5°	46.1	44.3	35.5	48.0	41.2	36.8	68.6	152.8	178.4	129.1	115.4
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)