

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: P318008

Luminaire Tested: **GAN-SA4C-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23414 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

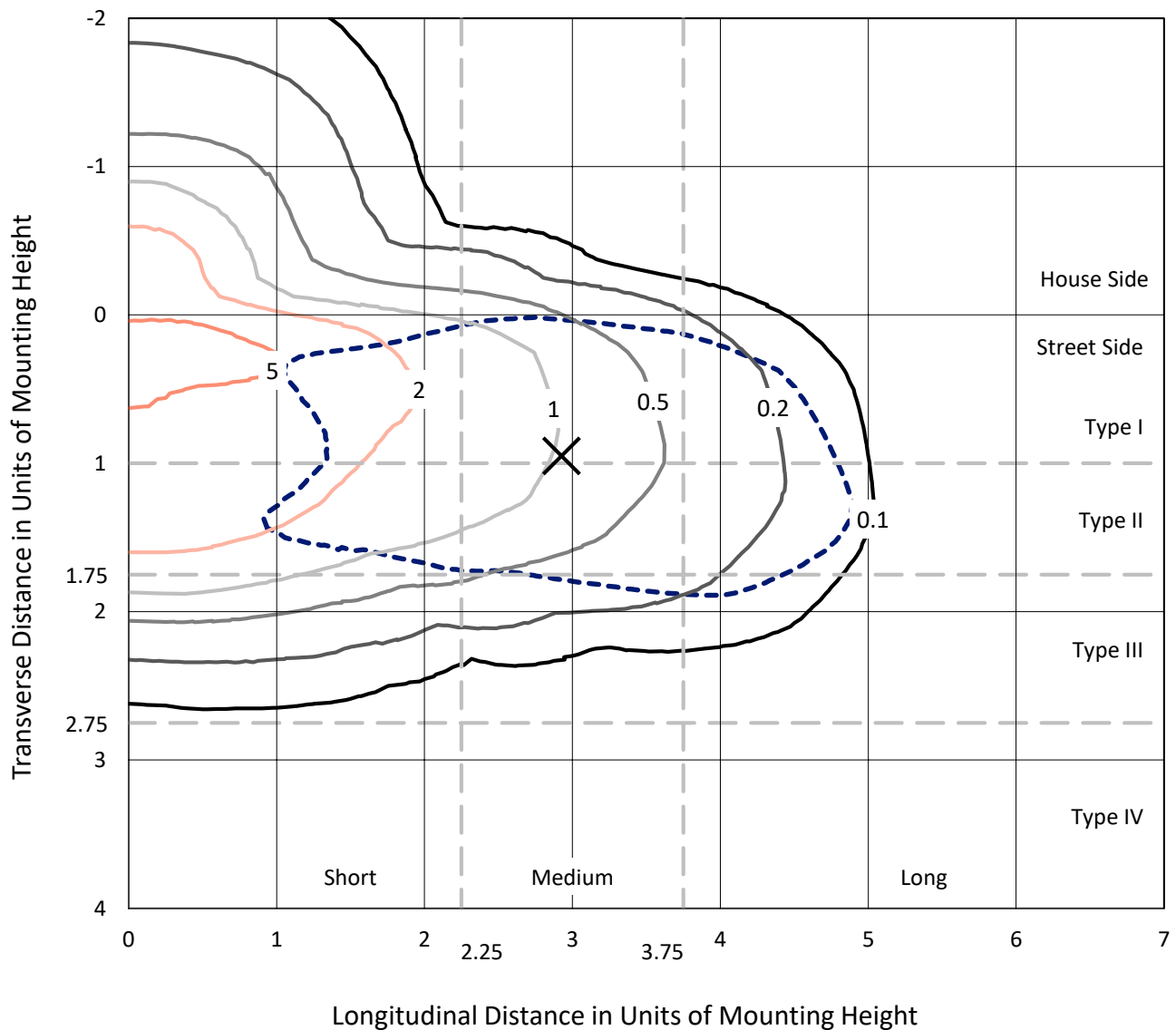
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

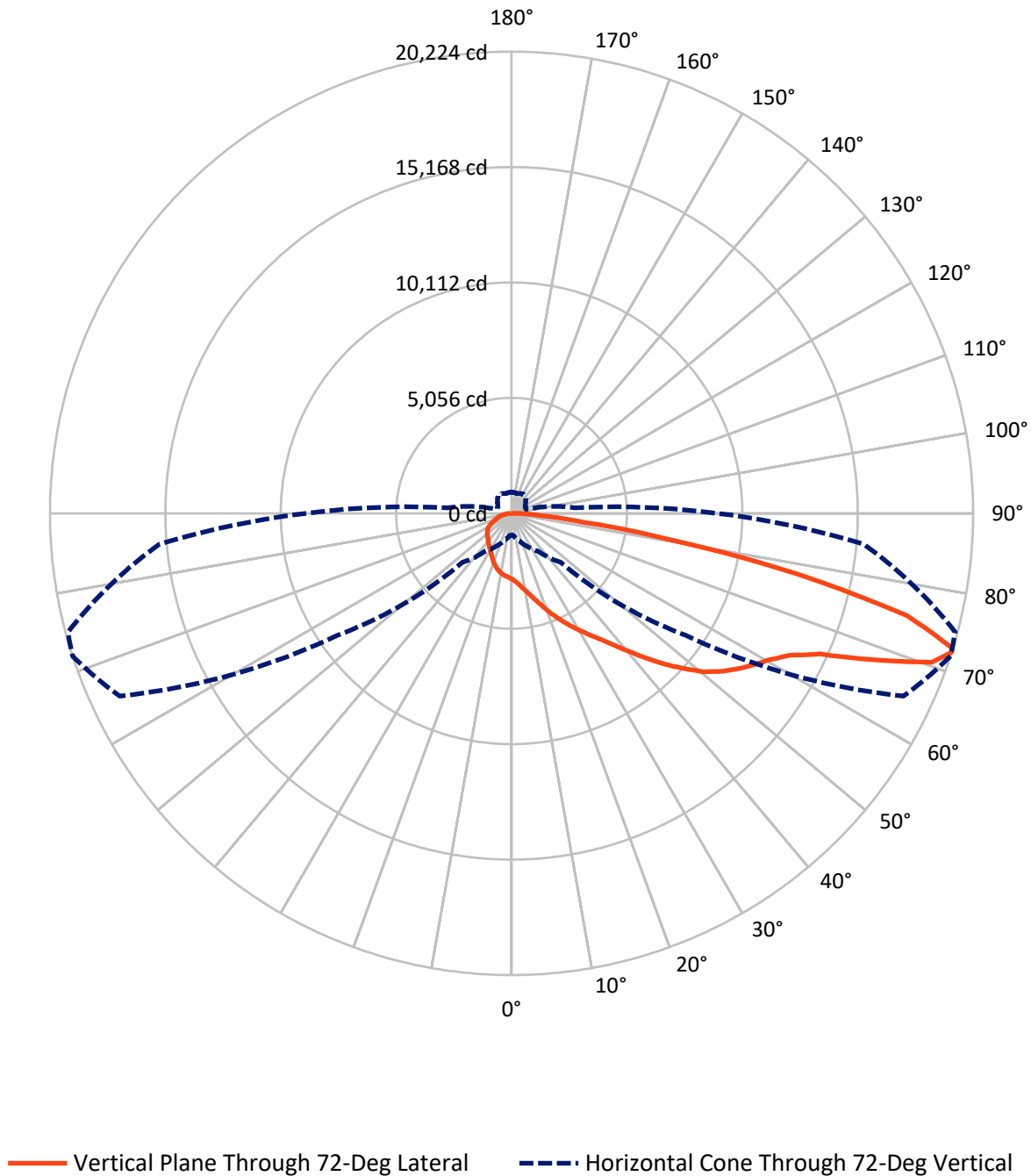
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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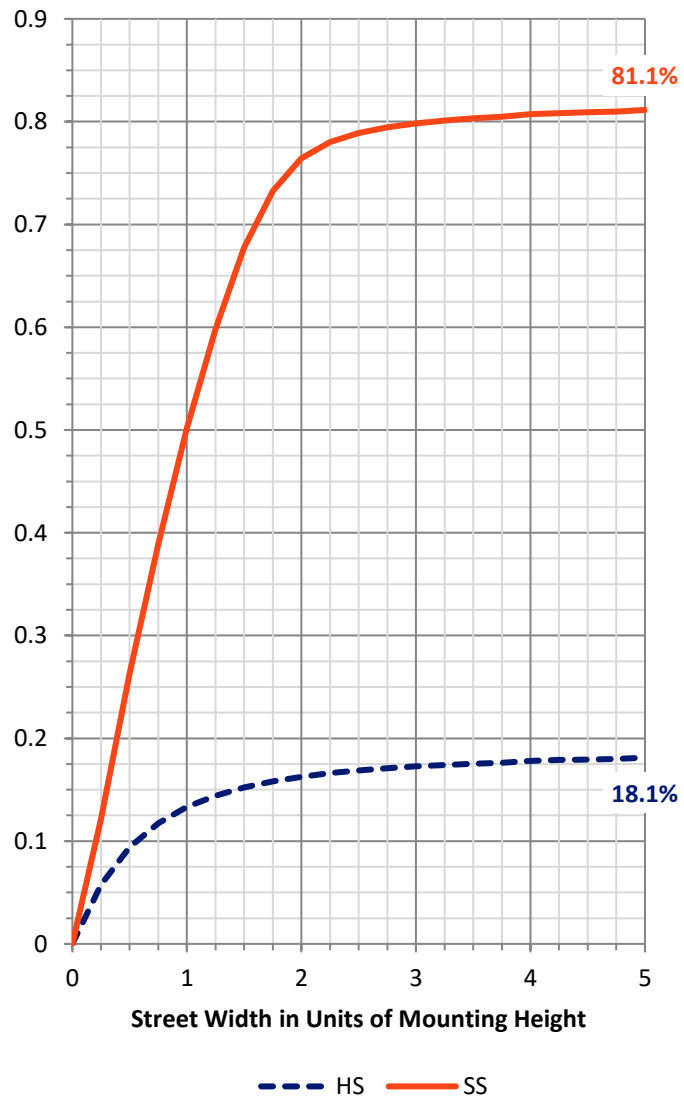
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4343.5	0.0	4343.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19070.5	0.0	19070.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	23414.0	0.0	23414.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.6	1.2
10°-20°	932.7	4.0
20°-30°	1634.4	7.0
30°-40°	2423.4	10.4
40°-50°	3544.4	15.1
50°-60°	4877.0	20.8
60°-70°	5429.6	23.2
70°-80°	3679.1	15.7
80°-90°	604.7	2.6
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°	23414.0	100.0
0°-180°	23414.0	100.0

Coefficient of Utilization



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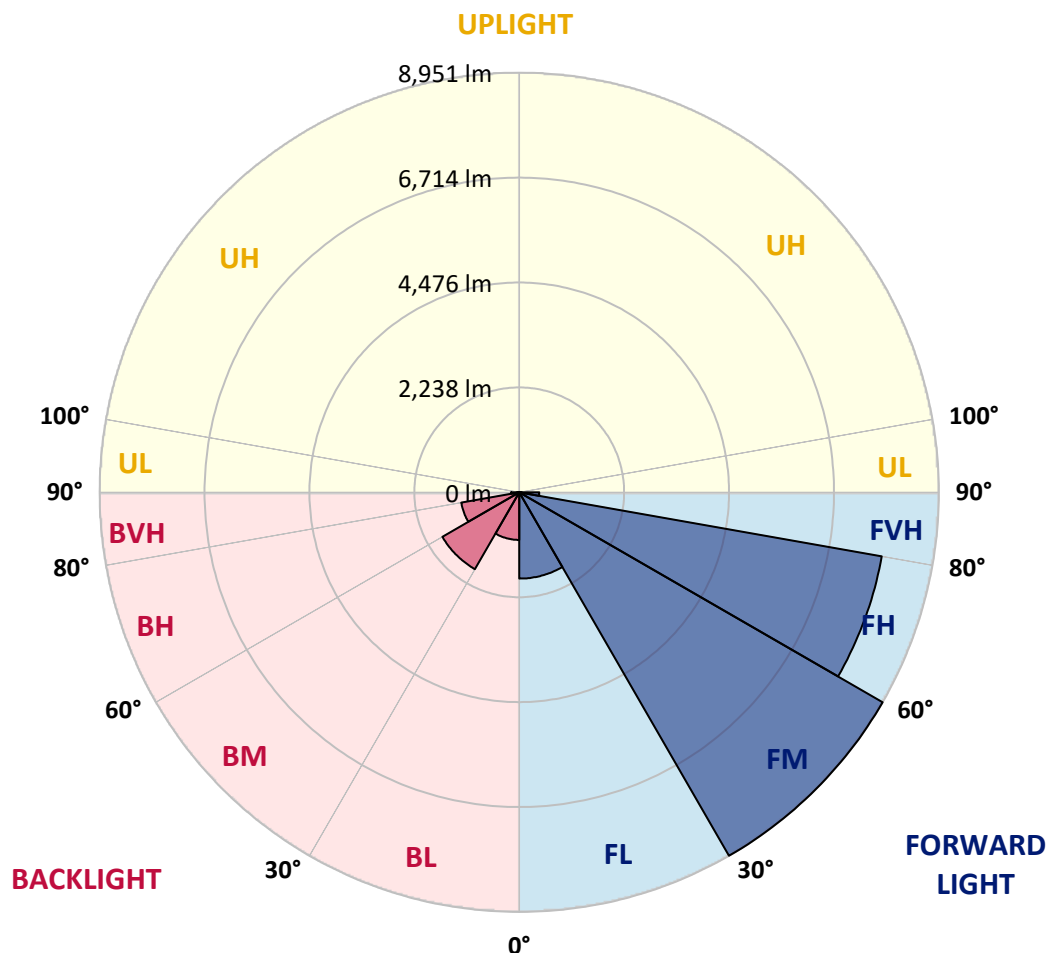
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1840.5	7.9			
FM	(30°-60°)	8951.5	38.2			
FH	(60°-80°)	7852.1	33.5			G4/12000
FVH	(80°-90°)	426.5	1.8			G3/500
BL	(0°-30°)	1015.3	4.3	B3/2500		
BM	(30°-60°)	1893.3	8.1	B2/2500		
BH	(60°-80°)	1256.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	178.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5
2.5°	3182.0	3177.2	3160.3	3160.3	3128.0	3100.6	3049.0	3014.4	2973.2	2958.7	2910.4
5°	3490.0	3491.6	3470.7	3456.2	3408.6	3350.5	3262.7	3182.9	3103.0	3070.8	2971.6
7.5°	3748.8	3745.6	3739.9	3727.8	3683.5	3623.8	3505.3	3386.8	3269.1	3220.7	3049.8
10°	3914.9	3922.1	3927.0	3932.6	3914.1	3871.3	3759.3	3615.0	3461.0	3394.9	3143.4
12.5°	3998.7	4011.6	4034.2	4072.9	4103.5	4098.7	4017.3	3864.1	3681.1	3598.0	3260.3
15°	4047.9	4064.8	4100.3	4169.6	4255.9	4305.1	4283.3	4144.6	3940.7	3838.3	3402.9
17.5°	4078.5	4092.2	4147.1	4239.8	4368.0	4498.6	4555.8	4439.7	4234.1	4117.2	3566.6
20°	4099.5	4110.0	4178.5	4287.3	4453.4	4661.4	4821.0	4792.0	4557.4	4405.9	3737.5
22.5°	4146.3	4155.1	4220.4	4330.1	4513.9	4782.3	5076.6	5120.1	4898.4	4726.7	3920.5
25°	4276.9	4276.9	4331.7	4408.3	4580.8	4887.2	5292.7	5485.3	5246.7	5046.8	4089.8
27.5°	4526.0	4523.6	4543.7	4570.3	4700.9	4993.6	5485.3	5807.8	5607.9	5389.4	4254.3
30°	4821.0	4837.2	4839.6	4826.7	4888.0	5126.6	5663.5	6148.0	5971.5	5736.1	4422.8
32.5°	5200.8	5211.2	5199.1	5156.4	5147.6	5315.2	5838.5	6504.4	6364.9	6098.1	4576.8
35°	5682.9	5662.7	5624.8	5537.7	5454.7	5567.6	6038.4	6860.7	6806.7	6535.8	4788.8
37.5°	6199.6	6200.4	6153.7	5956.2	5841.7	5890.1	6314.1	7264.6	7341.2	7056.6	5060.5
40°	6614.0	6635.8	6664.8	6405.2	6256.9	6323.8	6664.8	7733.0	7973.3	7674.2	5414.4
42.5°	6903.4	6928.4	7010.7	6847.8	6693.8	6818.0	7077.6	8232.9	8682.7	8386.8	5828.8
45°	7209.8	7223.5	7281.5	7211.4	7113.1	7392.8	7542.8	8750.4	9433.3	9146.3	6292.3
47.5°	7532.3	7546.8	7606.4	7559.7	7508.1	7929.7	8028.1	9238.2	10152.4	9980.7	6787.4
50°	7930.5	7940.2	7996.6	7912.0	7928.1	8334.4	8461.8	9685.6	10906.2	10730.4	7284.0
52.5°	8473.9	8476.3	8554.5	8477.9	8402.2	8631.1	8835.1	10107.3	11497.1	11414.1	7780.6
55°	8899.6	8925.4	9181.7	9165.6	9122.1	8900.4	9147.1	10508.7	12024.4	12063.9	8307.8
57.5°	8627.9	8728.7	9247.9	9613.9	9970.2	9570.3	9568.7	10961.0	12514.6	12701.6	8887.5
60°	7556.5	7693.5	8458.6	9270.4	10385.4	10736.1	10444.2	11513.3	13009.6	13333.7	9613.9
62.5°	5396.7	5622.4	6659.2	7955.5	9816.2	11508.4	12225.9	12389.6	13682.7	14065.7	10557.9
65°	2728.2	2899.1	3768.2	5329.8	7842.7	11003.7	14162.4	14308.3	14852.5	15192.7	12011.5
67.5°	1657.5	1722.0	2146.1	2964.4	4808.1	8571.5	14794.5	17506.5	17116.3	17296.9	14084.2
70°	1221.4	1269.0	1533.4	1968.7	2765.2	5029.8	12854.8	19788.8	19532.5	19512.3	15616.0
72°	951.3	986.0	1219.8	1590.6	2021.9	3017.6	9317.2	18946.4	20224.2	20122.6	15475.7
72.5°	902.1	932.8	1145.6	1497.1	1910.7	2735.4	8377.2	18378.0	20174.2	20128.3	15294.3
75°	710.3	732.0	848.1	1157.7	1495.5	1551.9	4590.5	14242.2	17896.7	18640.8	13756.1
77.5°	587.7	590.9	652.2	842.5	1165.8	1097.2	2254.9	9881.5	12815.3	13633.6	9744.5
80°	478.9	482.9	511.9	590.9	882.0	811.8	1070.6	5682.1	7175.1	7184.0	4634.0
82.5°	381.3	382.1	414.4	432.1	633.7	580.5	613.5	2667.7	3135.3	3016.0	1665.6
85°	268.5	262.8	404.7	354.7	414.4	372.5	338.6	1056.1	1296.4	1239.9	521.6
87.5°	89.5	92.7	179.8	229.8	241.9	211.2	150.8	404.7	489.4	485.3	165.3
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°	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5	2880.5
2.5°	2895.0	2869.2	2831.4	2789.4	2756.4	2722.5	2697.5	2684.6	2670.1	2658.0	2672.5
5°	2925.7	2877.3	2796.7	2717.7	2659.6	2608.0	2571.0	2551.6	2533.9	2521.8	2523.4
7.5°	2975.7	2897.5	2762.0	2646.7	2566.1	2510.5	2472.6	2459.7	2448.4	2445.2	2449.2
10°	3028.9	2913.6	2716.1	2562.9	2471.0	2425.0	2408.1	2417.0	2425.0	2432.3	2440.4
12.5°	3089.3	2928.1	2649.2	2464.5	2386.3	2368.6	2385.5	2424.2	2452.4	2469.4	2479.9
15°	3168.3	2941.0	2571.8	2366.2	2313.8	2333.9	2391.2	2458.1	2507.3	2538.7	2543.5
17.5°	3240.9	2940.2	2472.6	2267.0	2254.9	2313.8	2400.0	2494.4	2560.5	2604.8	2613.7
20°	3315.9	2918.4	2357.3	2170.3	2195.3	2292.0	2404.1	2517.7	2597.6	2649.2	2661.2
22.5°	3386.0	2880.5	2230.7	2082.4	2145.3	2263.0	2388.8	2504.0	2583.9	2625.8	2638.7
25°	3433.6	2814.4	2102.6	2008.2	2100.9	2227.5	2338.8	2431.5	2491.1	2512.1	2515.3
27.5°	3457.8	2728.2	1981.6	1943.7	2055.0	2169.5	2246.1	2292.0	2308.9	2307.3	2304.1
30°	3461.0	2614.5	1877.6	1891.3	2001.8	2084.0	2120.3	2111.4	2089.7	2052.6	2055.8
32.5°	3450.5	2486.3	1790.6	1841.3	1934.1	1980.0	1981.6	1938.9	1880.9	1822.0	1805.9
35°	3453.7	2360.5	1714.0	1784.9	1851.8	1872.0	1853.4	1790.6	1711.6	1635.8	1619.6
37.5°	3489.2	2250.9	1647.9	1719.6	1760.7	1765.6	1739.0	1672.9	1614.8	1540.6	1534.2
40°	3573.9	2172.7	1585.0	1646.2	1669.6	1672.0	1634.2	1587.4	1592.2	1552.7	1551.9
42.5°	3726.2	2138.8	1529.4	1569.7	1584.2	1589.0	1560.0	1530.2	1572.1	1546.3	1537.4
45°	3922.9	2146.9	1482.6	1494.7	1521.3	1543.9	1526.1	1489.8	1506.0	1393.9	1356.8
47.5°	4150.3	2198.5	1445.5	1430.2	1476.1	1518.9	1491.5	1436.6	1379.4	1268.1	1247.2
50°	4416.3	2278.3	1411.6	1366.5	1427.0	1485.0	1457.6	1379.4	1293.1	1239.1	1231.9
52.5°	4693.7	2375.9	1377.8	1296.4	1364.9	1459.2	1445.5	1366.5	1260.1	1206.9	1197.2
55°	5008.1	2474.2	1335.1	1214.9	1298.0	1447.1	1439.9	1319.7	1235.1	1205.3	1198.0
57.5°	5399.1	2586.3	1278.6	1130.3	1235.1	1403.6	1381.0	1291.5	1209.3	1186.7	1184.3
60°	5908.6	2751.5	1197.2	1040.0	1158.5	1336.7	1331.8	1250.4	1168.2	1152.1	1148.8
62.5°	6672.9	3024.8	1085.1	949.7	1073.0	1223.0	1267.3	1194.8	1124.6	1123.8	1125.4
65°	7858.0	3436.0	963.4	870.7	986.8	1127.1	1192.4	1137.5	1080.3	1096.4	1098.8
67.5°	9231.7	3777.0	844.1	793.3	898.9	1036.0	1124.6	1080.3	1021.4	1063.4	1064.2
70°	9688.8	3472.3	739.3	716.7	807.8	948.1	1051.3	1017.4	957.8	999.7	995.7
72°	9016.5	2803.1	671.6	658.7	739.3	875.5	986.0	958.6	899.7	927.9	917.4
72.5°	8804.4	2672.5	654.6	644.1	720.7	857.0	969.0	944.1	885.2	909.4	899.7
75°	7853.9	2321.0	562.7	565.1	628.8	766.7	873.9	865.9	805.4	807.8	804.6
77.5°	5696.6	1701.9	474.0	490.2	535.3	674.0	778.0	773.1	707.0	694.9	692.5
80°	2643.5	868.3	386.2	393.4	440.2	563.5	663.5	657.0	603.8	588.5	579.7
82.5°	905.4	412.8	290.2	295.1	341.0	453.9	575.6	571.6	527.3	497.4	478.9
85°	323.3	205.6	203.2	198.3	243.5	357.1	501.5	479.7	414.4	353.1	351.5
87.5°	104.8	87.9	104.8	104.0	141.9	241.9	364.4	310.4	300.7	249.9	245.1
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)