

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: P319291

Luminaire Tested: **GAN-SA7C-727-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319291
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-SA7C-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 40986 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

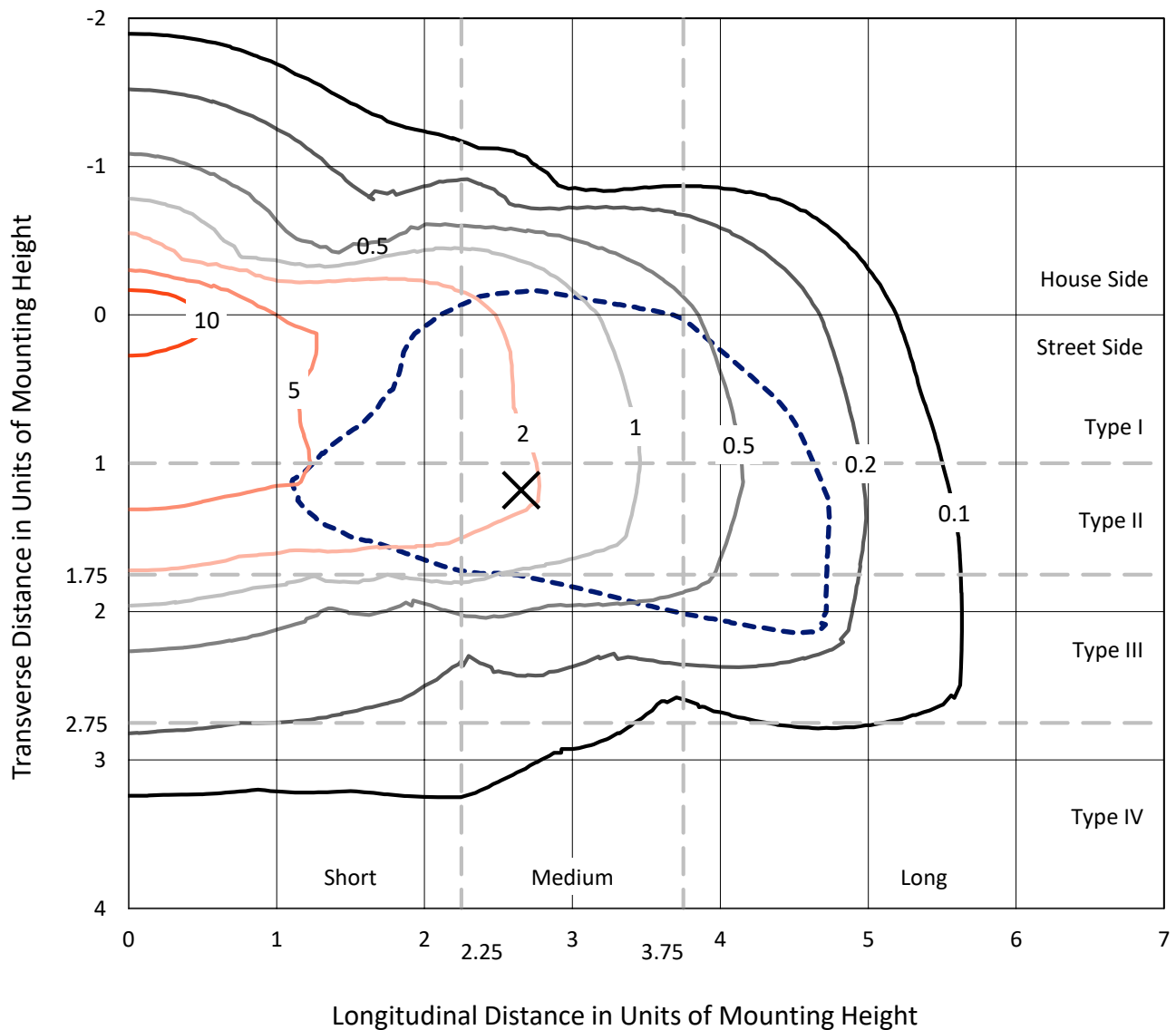
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

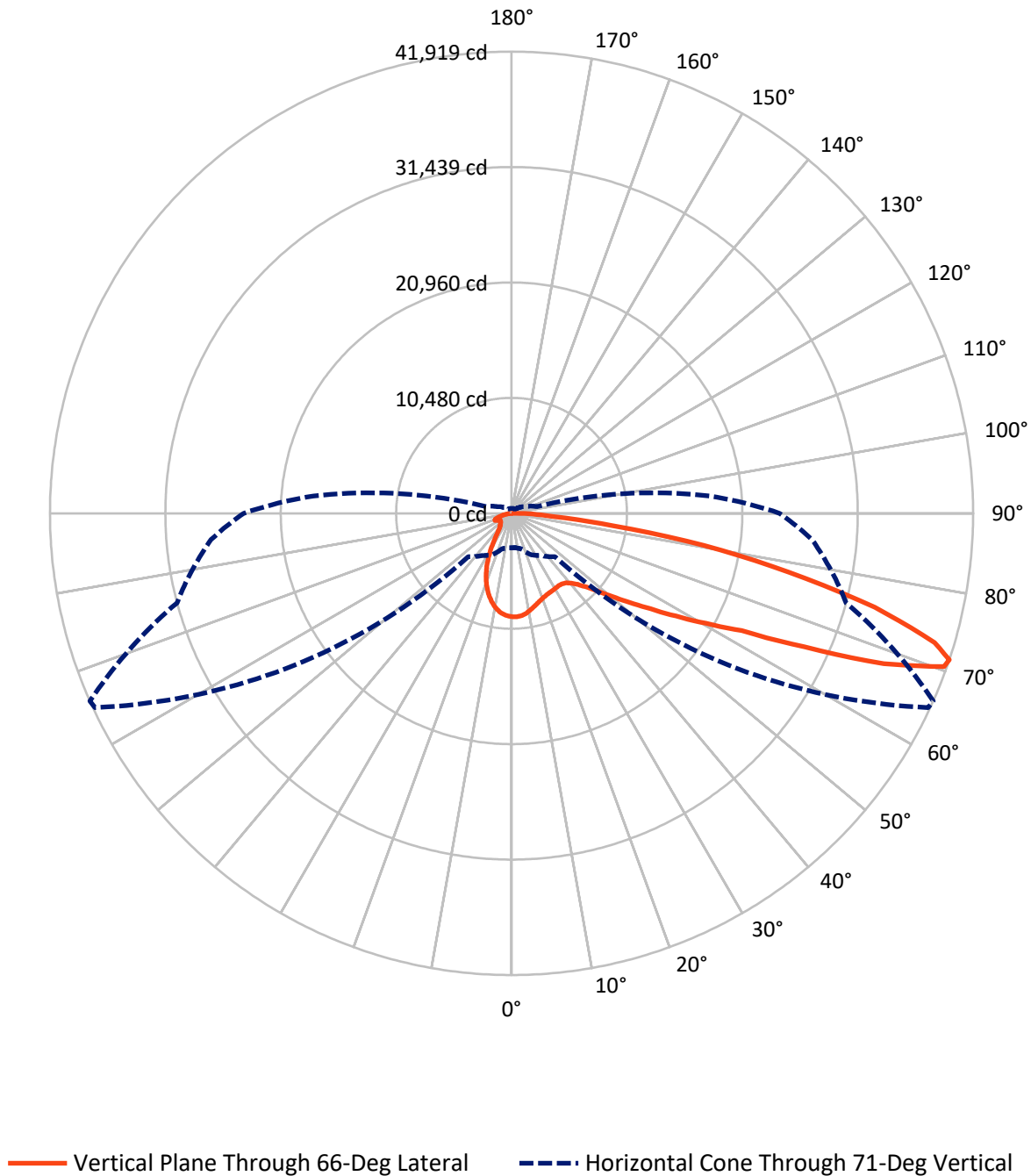
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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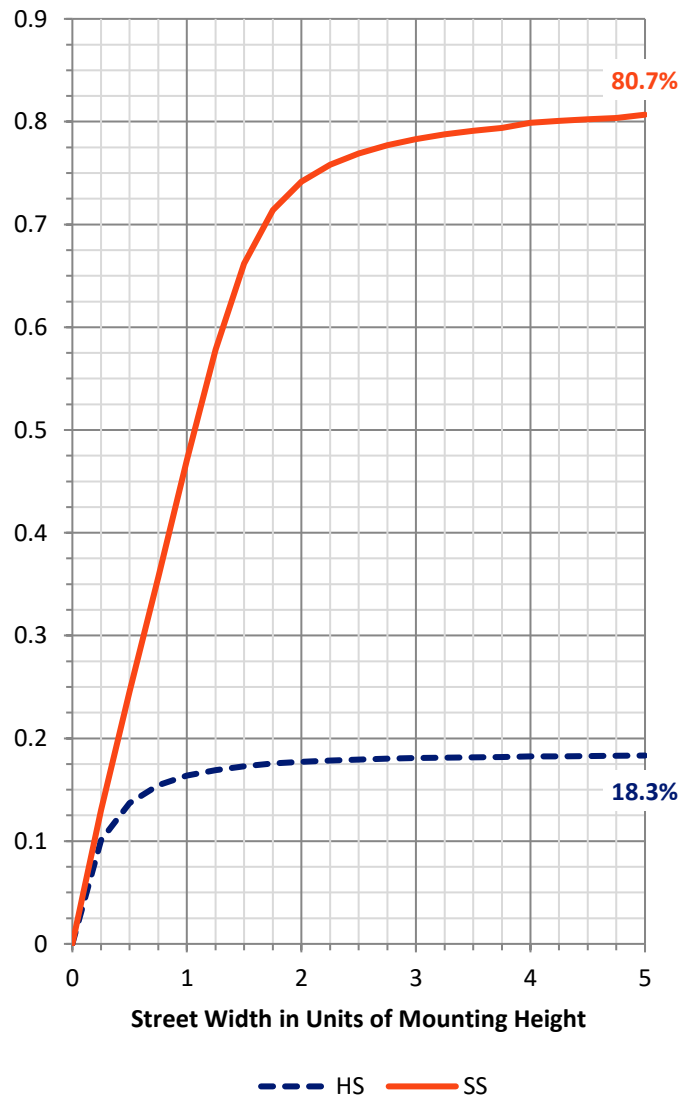
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7595.8	0.0	7595.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	33390.2	0.0	33390.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	40986.0	0.0	40986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	826.5	2.0
10°-20°	1982.2	4.8
20°-30°	2662.6	6.5
30°-40°	3502.6	8.5
40°-50°	5095.4	12.4
50°-60°	7959.6	19.4
60°-70°	9970.7	24.3
70°-80°	7605.4	18.6
80°-90°	1381.1	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°	40986.0	100.0
0°-180°	40986.0	100.0

Coefficient of Utilization



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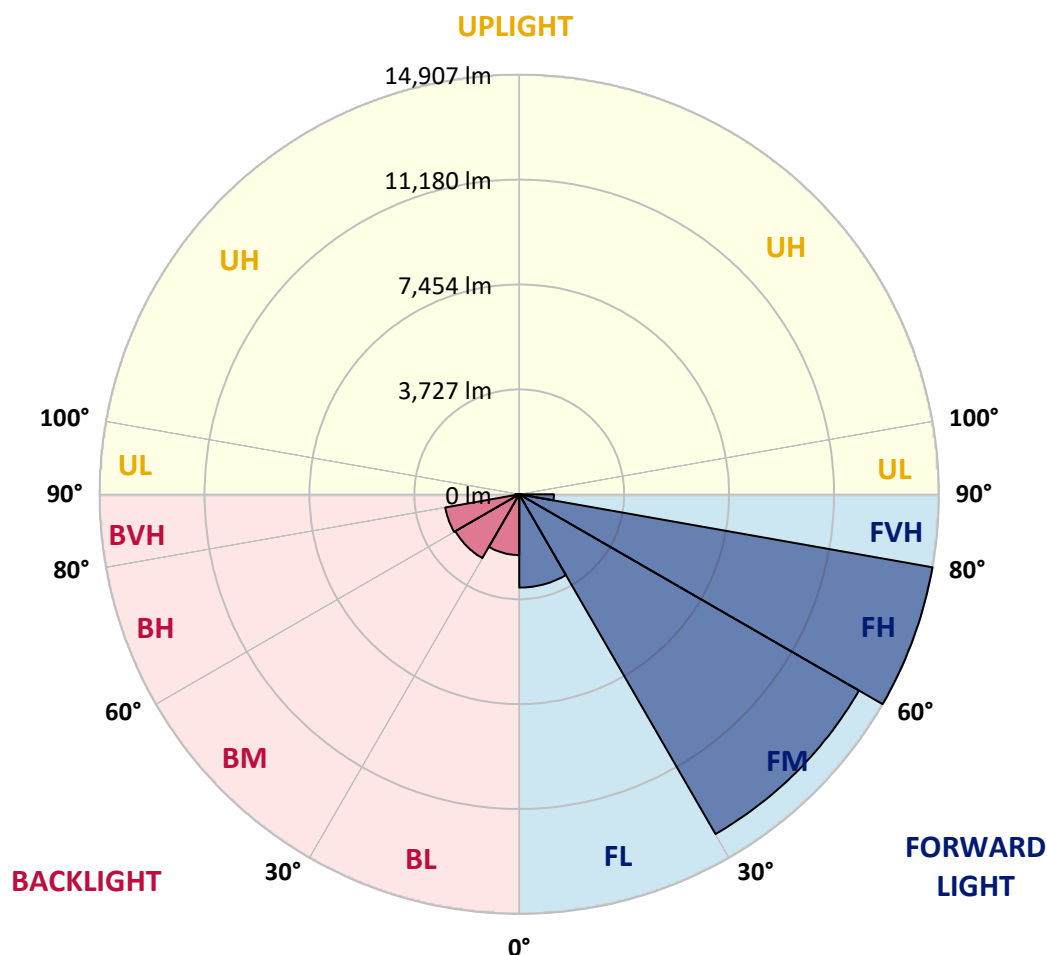
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3314.3	8.1			
FM	(30°-60°)	13937.3	34.0			
FH	(60°-80°)	14907.0	36.4			G5
FVH	(80°-90°)	1231.6	3.0			G5
BL	(0°-30°)	2157.0	5.3	B3/2500		
BM	(30°-60°)	2620.3	6.4	B3/5000		
BH	(60°-80°)	2669.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	149.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1
2.5°	9215.0	9200.9	9243.3	9287.2	9304.2	9332.5	9374.9	9399.0	9397.6	9401.8	9387.7
5°	8603.7	8585.3	8670.2	8739.6	8872.6	9022.6	9205.1	9335.3	9338.2	9411.7	9431.6
7.5°	8025.0	8012.2	8109.9	8221.7	8375.9	8605.1	8900.9	9181.1	9198.1	9397.6	9466.9
10°	7560.8	7558.0	7652.8	7774.5	7954.2	8210.3	8550.0	8960.3	8985.8	9329.7	9472.6
12.5°	7198.5	7204.2	7286.3	7425.0	7614.6	7882.0	8250.0	8712.7	8753.7	9222.1	9440.0
15°	6931.1	6953.7	7020.2	7160.3	7347.1	7618.8	7996.7	8483.4	8545.7	9101.8	9421.6
17.5°	6778.3	6803.7	6850.4	6966.5	7141.9	7403.7	7761.7	8295.2	8351.8	9009.9	9423.1
20°	6733.0	6754.2	6781.1	6851.8	7000.4	7238.2	7576.4	8125.4	8186.3	8936.3	9437.2
22.5°	6822.1	6837.7	6840.5	6834.9	6925.4	7119.3	7441.9	8000.9	8066.0	8888.2	9447.1
25°	7013.2	7034.4	7018.8	6966.5	6936.8	7055.6	7372.6	7918.8	7983.9	8852.8	9427.3
27.5°	7300.4	7303.3	7290.5	7222.6	7082.5	7062.7	7351.4	7870.7	7933.0	8811.7	9386.3
30°	7691.0	7709.4	7686.8	7594.8	7365.5	7175.9	7376.8	7824.0	7880.6	8759.4	9319.8
32.5°	8148.1	8193.4	8191.9	8095.7	7767.4	7429.2	7481.6	7795.7	7839.6	8704.2	9239.1
35°	8622.1	8684.4	8800.4	8759.4	8353.3	7829.7	7682.5	7841.0	7870.7	8697.1	9182.5
37.5°	9114.6	9176.8	9416.0	9526.4	9050.9	8402.8	7999.5	8000.9	8015.1	8783.4	9178.3
40°	9629.7	9696.2	10055.6	10342.9	9955.1	9128.7	8510.3	8334.9	8319.3	8995.7	9261.7
42.5°	10351.4	10410.8	10842.4	11208.9	10958.4	10058.4	9216.5	8850.0	8817.4	9411.7	9529.2
45°	11264.1	11315.0	11773.5	12165.5	12036.7	11119.7	10103.7	9558.9	9553.2	10105.1	10071.2
47.5°	12349.5	12389.1	12800.9	13180.1	13226.8	12341.0	11218.8	10652.8	10560.8	11056.1	10910.3
50°	13480.1	13524.0	13804.2	14211.7	14558.4	13975.4	12653.7	11992.9	11869.7	12311.3	12099.0
52.5°	14228.7	14286.7	14530.1	15046.6	16055.6	15766.9	14350.4	13617.4	13430.6	13832.5	13669.7
55°	13894.7	14024.9	14397.1	15224.9	17252.7	18503.7	16443.3	15512.2	15301.3	15635.3	15539.1
57.5°	12376.3	12554.6	13062.7	14340.5	17421.1	20915.0	19607.4	17743.8	17595.2	17499.0	17542.8
60°	9601.4	9772.6	10402.3	12067.9	16248.0	22675.3	24369.2	20494.7	20279.6	19369.7	19409.3
62.5°	6795.2	6708.9	7140.5	8358.9	13202.8	22881.9	29787.6	24173.9	23466.4	21345.2	21171.1
65°	5182.0	5162.2	5356.1	5743.8	7996.7	20409.8	33015.4	30357.9	29252.7	23668.7	23258.4
67.5°	4258.0	4222.6	4413.7	4978.3	5149.5	13167.4	33086.1	37532.3	36447.0	26561.2	25672.5
70°	3500.9	3461.3	3639.6	4368.4	4758.9	6677.8	27846.1	41733.7	41675.7	30223.4	27495.1
71°	3138.7	3110.4	3324.0	4133.5	4675.4	5565.5	24042.3	41745.1	41919.1	31463.0	27387.6
72.5°	2555.6	2565.6	2792.0	3679.2	4613.2	4914.6	17670.2	39799.3	40167.2	32644.6	26409.8
75°	1698.1	1706.6	2003.8	2830.2	4473.1	4808.5	9711.7	33396.0	34072.5	31937.1	24098.9
77.5°	1140.6	1137.7	1340.1	1941.5	3897.1	4808.5	5694.3	24977.7	25720.6	25412.1	18578.7
80°	785.4	779.7	922.6	1340.1	2950.5	4866.5	4402.3	17504.6	17729.6	13723.5	7550.9
82.5°	481.1	485.4	602.8	946.7	2008.0	4379.7	4156.1	9544.8	9299.9	3849.0	1886.3
85°	275.9	274.5	384.9	641.0	1289.1	3696.2	4052.8	4108.0	3768.4	1159.0	682.1
87.5°	99.1	106.1	206.6	355.2	738.7	2574.0	3438.7	2136.8	1925.9	523.6	308.5
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°	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1	9389.1
2.5°	9377.8	9386.3	9376.4	9319.8	9271.6	9193.8	9149.9	9089.1	9070.7	9062.2	9084.9
5°	9413.2	9416.0	9332.5	9183.9	9016.9	8820.2	8678.7	8504.7	8422.6	8387.2	8409.9
7.5°	9445.7	9433.0	9250.4	8966.0	8657.5	8315.0	8010.8	7732.0	7569.3	7502.8	7508.4
10°	9449.9	9396.2	9103.3	8663.2	8184.9	7682.5	7215.5	6785.3	6513.6	6336.8	6390.5
12.5°	9406.1	9315.5	8886.7	8271.2	7607.5	6922.6	6291.5	5646.2	5258.5	5078.7	5084.4
15°	9372.1	9208.0	8620.7	7809.9	6918.4	6011.3	5149.5	4391.0	3977.8	3793.8	3707.5
17.5°	9343.8	9091.9	8312.2	7290.5	6104.7	4954.2	3918.4	3242.0	3015.5	2961.8	2939.1
20°	9304.2	8968.8	7968.4	6689.1	5177.8	3771.2	2861.3	2527.3	2528.8	2591.0	2599.5
22.5°	9249.0	8828.7	7601.8	6014.1	4183.0	2746.7	2242.9	2146.7	2244.3	2363.2	2384.4
25°	9166.9	8663.2	7194.3	5268.4	3189.6	2111.3	1916.0	1911.8	2030.6	2155.2	2173.6
27.5°	9050.9	8446.7	6741.5	4467.4	2350.5	1794.3	1716.5	1746.2	1834.0	1924.5	1931.6
30°	8895.2	8194.8	6241.9	3622.6	1842.4	1597.6	1589.1	1616.0	1669.8	1733.5	1739.1
32.5°	8724.0	7938.6	5708.5	2804.7	1577.8	1491.5	1500.0	1512.7	1538.2	1563.7	1569.3
35°	8568.3	7676.8	5162.2	2131.1	1451.9	1422.2	1416.5	1413.7	1416.5	1408.0	1409.4
37.5°	8467.9	7460.3	4593.4	1696.7	1379.7	1361.3	1344.3	1323.1	1299.0	1284.9	1287.7
40°	8431.1	7299.0	4017.4	1466.0	1320.3	1307.5	1275.0	1229.7	1201.4	1192.9	1192.9
42.5°	8530.1	7215.5	3461.3	1350.0	1270.7	1249.5	1195.7	1143.4	1122.2	1120.7	1119.3
45°	8833.0	7249.5	2932.1	1286.3	1225.5	1184.4	1113.7	1069.8	1055.7	1058.5	1057.1
47.5°	9376.4	7463.2	2479.2	1243.9	1180.2	1126.4	1047.2	1011.8	994.8	994.8	996.2
50°	10300.4	7962.7	2118.4	1208.5	1142.0	1072.6	999.1	955.2	932.5	931.1	931.1
52.5°	11646.2	8857.0	1893.4	1178.8	1099.5	1024.5	950.9	895.7	868.9	863.2	860.4
55°	13332.9	10139.1	1831.1	1159.0	1042.9	972.2	892.9	837.7	808.0	795.3	793.9
57.5°	15219.3	11698.5	1954.2	1134.9	984.9	909.9	829.2	776.9	745.8	730.2	728.8
60°	17128.2	13400.9	2456.6	1100.9	936.8	842.0	764.1	716.0	684.9	667.9	665.1
62.5°	19040.0	15195.2	3482.5	1098.1	902.8	776.9	697.6	656.6	626.9	608.5	604.2
65°	21196.6	17159.3	4648.6	1173.1	891.5	717.4	629.7	597.2	571.7	554.7	553.3
67.5°	23673.0	19376.8	4536.8	1327.4	929.7	663.7	566.0	540.6	522.2	508.0	506.6
70°	24834.8	19030.1	2820.3	1436.3	983.5	611.3	505.2	486.8	472.6	462.7	458.5
71°	24348.0	18069.2	2364.6	1423.6	977.8	588.7	481.1	467.0	452.8	444.3	440.1
72.5°	23020.6	16478.7	1972.6	1324.5	914.1	547.6	450.0	435.8	423.1	413.2	410.4
75°	20657.4	14716.9	1579.2	1058.5	728.8	462.7	394.8	379.2	369.3	363.7	358.0
77.5°	15185.3	10502.8	1221.2	836.3	536.3	377.8	336.8	325.5	315.6	307.1	302.8
80°	5817.4	4068.4	822.2	624.1	393.4	298.6	271.7	266.0	256.1	250.5	250.5
82.5°	1566.5	1215.6	438.7	377.8	263.2	217.9	208.0	205.2	196.7	185.4	186.8
85°	634.0	536.3	246.2	208.0	161.3	128.8	140.1	141.5	131.6	117.5	118.9
87.5°	278.8	227.8	137.3	92.0	70.8	49.5	63.7	63.7	58.0	48.1	43.9
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)