

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: P636776

Luminaire Tested: **IFLD-S-SA6A-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636776
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (96) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13784.8 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

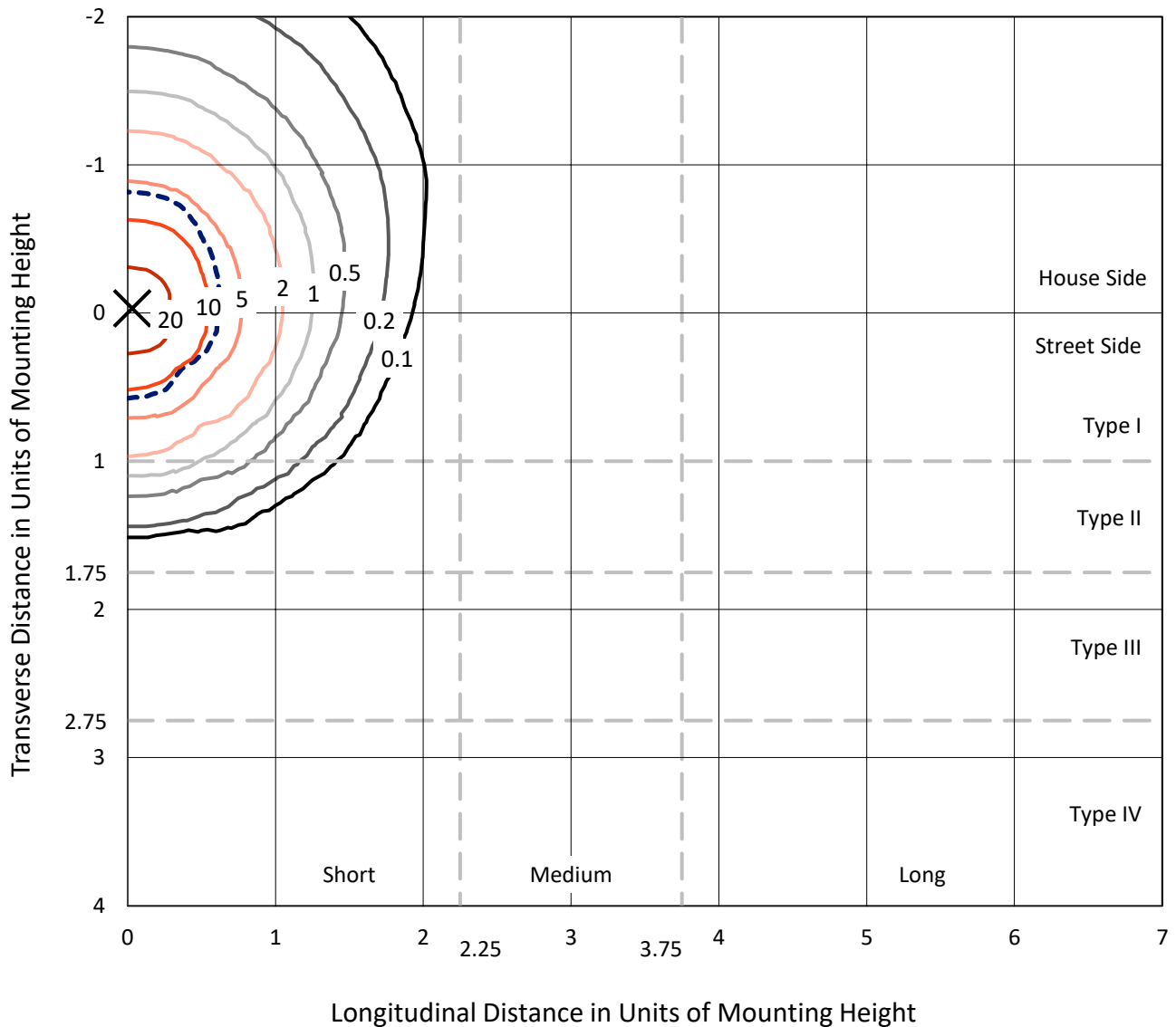
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

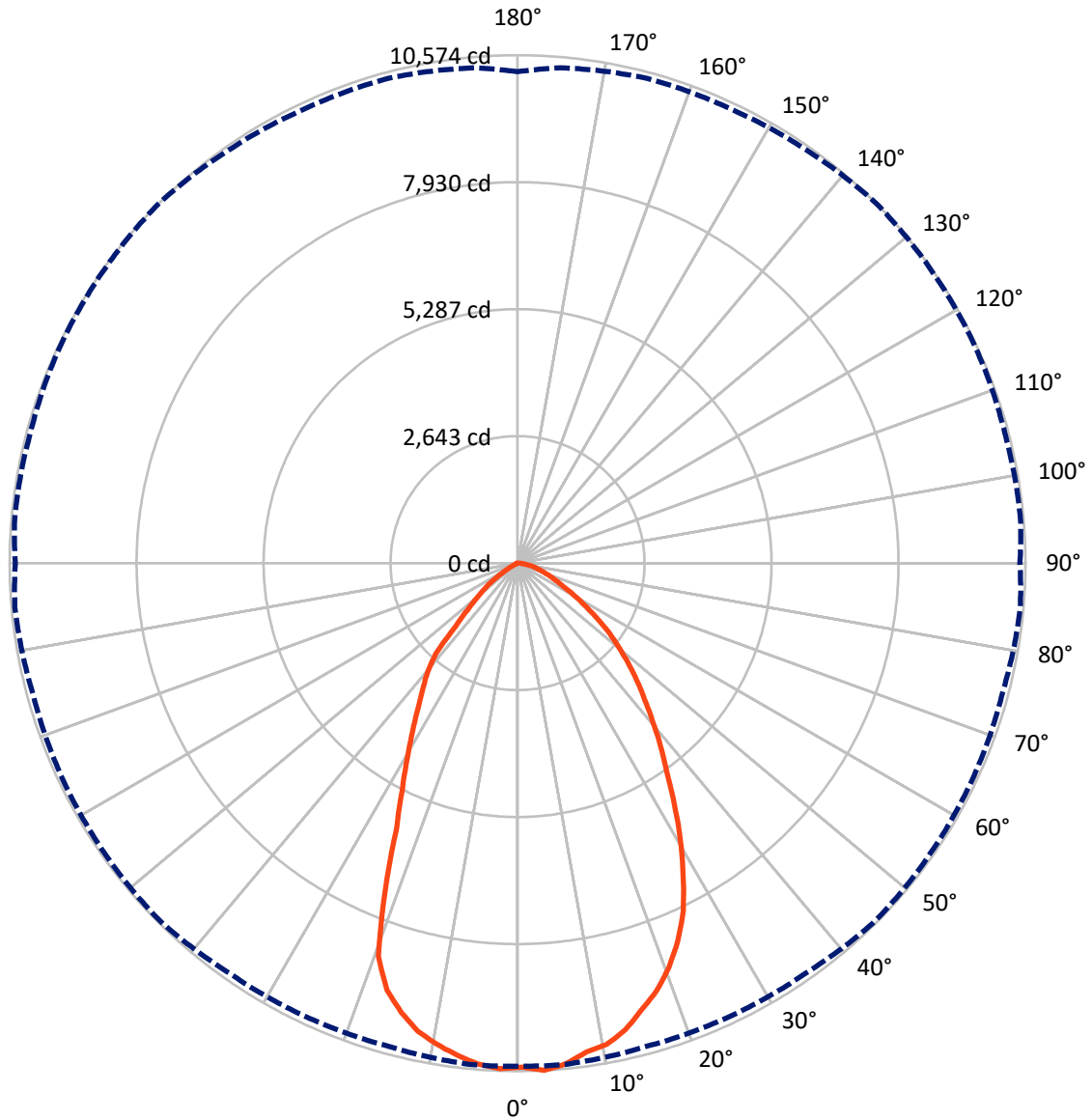
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8164.1	0.0	8164.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5620.7	0.0	5620.7
	% Fixture	40.8	0.0	40.8
Total	Lumens	13784.8	0.0	13784.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.8	7.1
10°-20°	2638.2	19.1
20°-30°	3217.4	23.3
30°-40°	2937.4	21.3
40°-50°	2122.8	15.4
50°-60°	1159.1	8.4
60°-70°	479.2	3.5
70°-80°	194.1	1.4
80°-90°	52.8	0.4
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°	13784.8	100.0
0°-180°	13784.8	100.0



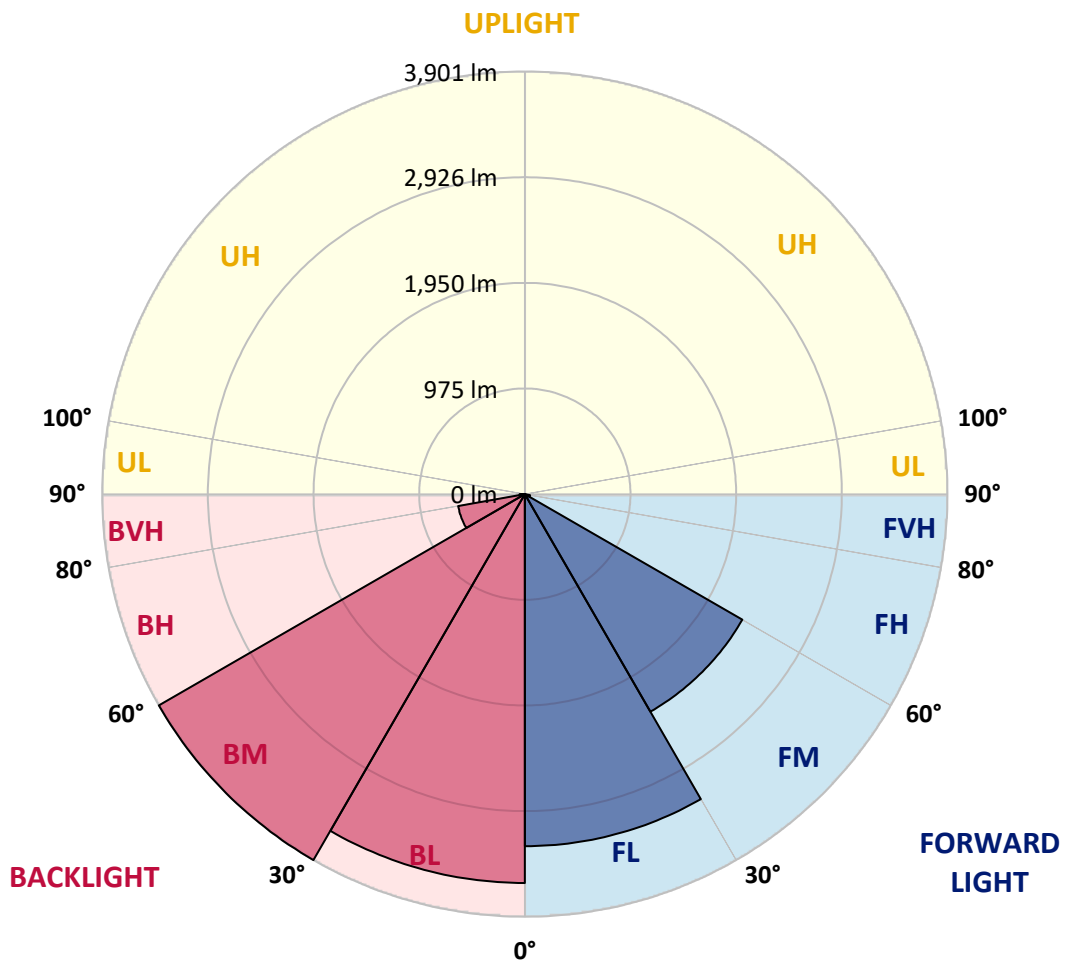
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3249.6	23.6			
FM	(30°-60°)	2318.3	16.8			
FH	(60°-80°)	48.6	0.4			G0/660
FVH	(80°-90°)	4.2	0.0			G0/10
BL	(0°-30°)	3589.8	26.0	B4/5000		
BM	(30°-60°)	3901.0	28.3	B3/5000		
BH	(60°-80°)	624.8	4.5	B2/1000		G2/1000
BVH	(80°-90°)	48.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	10490.2	10490.2	10490.2	10490.2	10490.2	10490.2	10490.2	10490.2	10490.2	10490.2
2.5°	10470.8	10484.4	10410.6	10418.4	10432.0	10531.0	10505.7	10482.4	10449.4	10505.7
5°	10457.2	10465.0	10387.3	10360.1	10371.8	10461.1	10379.5	10379.5	10371.8	10362.1
7.5°	10352.4	10356.2	10296.1	10247.5	10278.6	10319.4	10259.2	10288.3	10245.6	10278.6
10°	10195.1	10169.9	10098.1	10084.5	10119.4	10158.2	10117.5	10144.7	10105.8	10131.1
12.5°	9964.1	9925.3	9867.1	9849.6	9909.8	9962.2	9929.2	9913.7	9863.2	9925.3
15°	9073.1	9044.0	9176.0	9407.0	9614.7	9659.4	9624.4	9639.9	9535.1	9552.6
17.5°	7467.8	7413.4	7555.1	8102.5	8882.9	9294.4	9263.4	9162.4	9007.1	9042.1
20°	6786.4	6770.9	6755.3	6885.4	7430.9	8679.1	8721.8	8465.5	8244.2	8195.7
22.5°	6402.0	6396.2	6380.7	6409.8	6553.5	7355.2	7844.3	7607.5	7460.0	7446.4
25°	6050.7	6041.0	5994.4	6031.3	6031.3	6077.9	6704.9	6848.5	6718.5	6702.9
27.5°	5693.5	5676.0	5668.3	5685.7	5596.4	5282.0	5441.2	6141.9	6074.0	6077.9
30°	5307.2	5301.4	5280.0	5316.9	5041.3	4651.1	4550.1	5501.3	5514.9	5511.0
32.5°	4732.6	4757.9	4854.9	4895.7	4441.4	4119.2	3950.3	4759.8	5037.4	5031.6
35°	3437.8	3437.8	3754.3	4342.4	3892.1	3649.4	3558.2	4035.7	4565.7	4585.1
37.5°	2826.4	2836.1	2898.2	3166.1	3358.3	3272.8	3245.7	3397.1	3960.0	3991.1
40°	2543.0	2543.0	2543.0	2432.3	2426.5	2948.7	2933.1	2884.6	3420.4	3488.3
42.5°	2284.8	2290.6	2294.5	2015.0	1859.7	2548.8	2513.8	2440.1	2937.0	3016.6
45°	2018.8	2028.5	2040.2	1685.0	1617.0	1834.4	2127.5	2046.0	2459.5	2562.4
47.5°	1232.7	1248.2	1512.2	1428.7	1436.5	1415.1	1735.4	1721.8	2016.9	2162.5
50°	832.8	838.6	863.8	906.5	1232.7	1112.3	1228.8	1424.8	1531.6	1752.9
52.5°	698.8	708.5	646.4	588.2	809.5	869.7	858.0	1057.9	1100.7	1374.4
55°	491.1	522.2	493.1	487.2	460.1	675.5	650.3	813.4	840.5	1044.4
57.5°	50.5	58.2	100.9	363.0	300.9	382.4	463.9	595.9	623.1	770.7
60°	3.9	3.9	9.7	50.5	219.4	229.1	320.3	366.9	419.3	537.7
62.5°	0.0	1.9	3.9	7.8	34.9	122.3	161.1	192.2	252.4	347.5
65°	0.0	0.0	1.9	5.8	7.8	46.6	62.1	100.9	137.8	215.5
67.5°	0.0	0.0	1.9	3.9	5.8	11.6	21.4	36.9	73.8	122.3
70°	0.0	0.0	1.9	3.9	5.8	9.7	15.5	23.3	33.0	66.0
72.5°	0.0	0.0	1.9	1.9	3.9	9.7	11.6	15.5	23.3	33.0
75°	0.0	0.0	1.9	1.9	5.8	11.6	9.7	11.6	15.5	21.4
77.5°	0.0	0.0	1.9	3.9	5.8	11.6	9.7	11.6	11.6	13.6
80°	0.0	0.0	1.9	3.9	7.8	13.6	11.6	11.6	9.7	9.7
82.5°	0.0	0.0	1.9	5.8	7.8	17.5	17.5	15.5	7.8	5.8
85°	0.0	0.0	3.9	7.8	11.6	19.4	19.4	15.5	5.8	3.9
87.5°	0.0	0.0	3.9	5.8	9.7	13.6	19.4	15.5	5.8	1.9
90°	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°
10490.2	0°	10490.2	10490.2	10490.2	10490.2	10490.2	10490.2	10490.2	10490.2	10490.2
10457.2	2.5°	10509.6	10498.0	10536.8	10552.3	10573.7	10492.1	10441.7	10443.6	10350.4
10338.8	5°	10400.9	10402.8	10453.3	10449.4	10470.8	10426.1	10406.7	10373.7	10292.2
10189.3	7.5°	10263.1	10245.6	10294.1	10331.0	10276.7	10307.7	10263.1	10278.6	10230.1
10057.3	10°	10156.3	10115.5	10160.2	10185.4	10187.4	10156.3	10113.6	10072.8	10055.4
9851.5	12.5°	9919.5	9867.1	9942.8	9977.7	9971.9	9911.7	9863.2	9872.9	9816.6
9490.5	15°	9593.4	9595.3	9649.7	9682.7	9651.6	9638.0	9641.9	9618.6	9570.1
8991.6	17.5°	9094.5	9123.6	9267.2	9346.8	9364.3	9337.1	9323.5	9296.4	9247.8
8195.7	20°	8263.6	8438.4	8694.6	8941.1	8989.6	8981.9	8933.4	8921.7	8894.5
7407.6	22.5°	7533.8	7663.8	7960.8	8345.2	8543.2	8562.6	8504.4	8486.9	8457.8
6702.9	25°	6778.6	6918.4	7186.3	7603.6	8013.2	8096.7	8087.0	8034.6	8003.5
6077.9	27.5°	6141.9	6281.7	6524.3	6900.9	7339.6	7607.5	7632.8	7549.3	7547.3
5520.7	30°	5567.3	5759.5	5943.9	6250.6	6675.8	7077.6	7120.3	7062.0	7067.9
5010.2	32.5°	5117.0	5276.2	5433.4	5639.2	5992.5	6460.3	6627.2	6572.9	6551.5
4585.1	35°	4656.9	4765.6	4926.7	5115.0	5355.7	5819.7	6108.9	6068.2	6046.8
4010.5	37.5°	4132.8	4319.1	4435.6	4647.2	4835.5	5204.3	5612.0	5606.2	5561.5
3521.3	40°	3595.1	3791.1	3967.8	4181.3	4326.9	4620.0	5072.3	5070.4	5076.2
3014.7	42.5°	3107.8	3288.4	3501.9	3734.8	3874.6	4088.1	4573.4	4600.6	4633.6
2597.3	45°	2667.2	2830.3	3028.3	3311.7	3480.6	3602.8	4033.8	4158.0	4156.1
2224.6	47.5°	2271.2	2424.5	2591.5	2867.1	3082.6	3193.3	3550.4	3727.1	3715.4
1824.7	50°	1906.2	2042.1	2216.8	2416.8	2706.0	2803.1	3069.0	3302.0	3284.5
1454.0	52.5°	1533.5	1721.8	1869.4	2051.8	2356.6	2451.7	2657.5	2884.6	2871.0
1090.9	55°	1195.8	1378.2	1556.8	1714.1	1970.3	2112.0	2259.5	2492.5	2488.6
854.1	57.5°	904.6	1104.5	1273.4	1422.9	1626.7	1801.4	1919.8	2131.4	2158.6
584.3	60°	669.7	823.1	1005.5	1172.5	1333.6	1514.1	1593.7	1801.4	1813.1
399.9	62.5°	456.2	625.1	803.7	955.1	1075.4	1261.8	1333.6	1504.4	1525.8
256.2	65°	316.4	425.1	628.9	737.7	885.2	1044.4	1116.2	1252.1	1294.8
147.5	67.5°	209.6	302.8	491.1	590.1	735.7	844.4	935.7	1046.3	1092.9
93.2	70°	114.5	223.2	351.4	465.9	592.1	696.9	786.2	875.5	916.2
42.7	72.5°	77.6	149.5	244.6	368.8	477.5	580.4	660.0	726.0	727.9
25.2	75°	38.8	100.9	186.4	285.4	372.7	473.7	545.5	584.3	537.7
15.5	77.5°	23.3	73.8	151.4	229.1	302.8	382.4	423.2	444.5	368.8
11.6	80°	13.6	52.4	118.4	182.5	209.6	281.5	320.3	326.1	246.5
7.8	82.5°	9.7	38.8	93.2	133.9	128.1	198.0	240.7	232.9	157.2
5.8	85°	5.8	27.2	58.2	83.5	77.6	130.1	139.8	143.6	91.2
3.9	87.5°	3.9	15.5	31.1	44.6	36.9	56.3	56.3	67.9	44.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10490.2
<i>10230.1</i>
10272.8
10148.5
9977.7
9768.1
9521.5
9226.5
8832.4
8450.0
7970.5
7543.5
7038.8
6553.5
6017.7
5598.4
5076.2
4616.1
4160.0
3719.3
3300.0
2900.1
2498.3
2147.0
1830.5
1529.7
1285.1
1087.1
900.7
710.5
502.8
355.2
231.0
145.6
83.5
38.8
0.0

(END OF REPORT)