

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: P636733

Luminaire Tested: **IFLD-L-SA8A-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636733
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16681.8 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

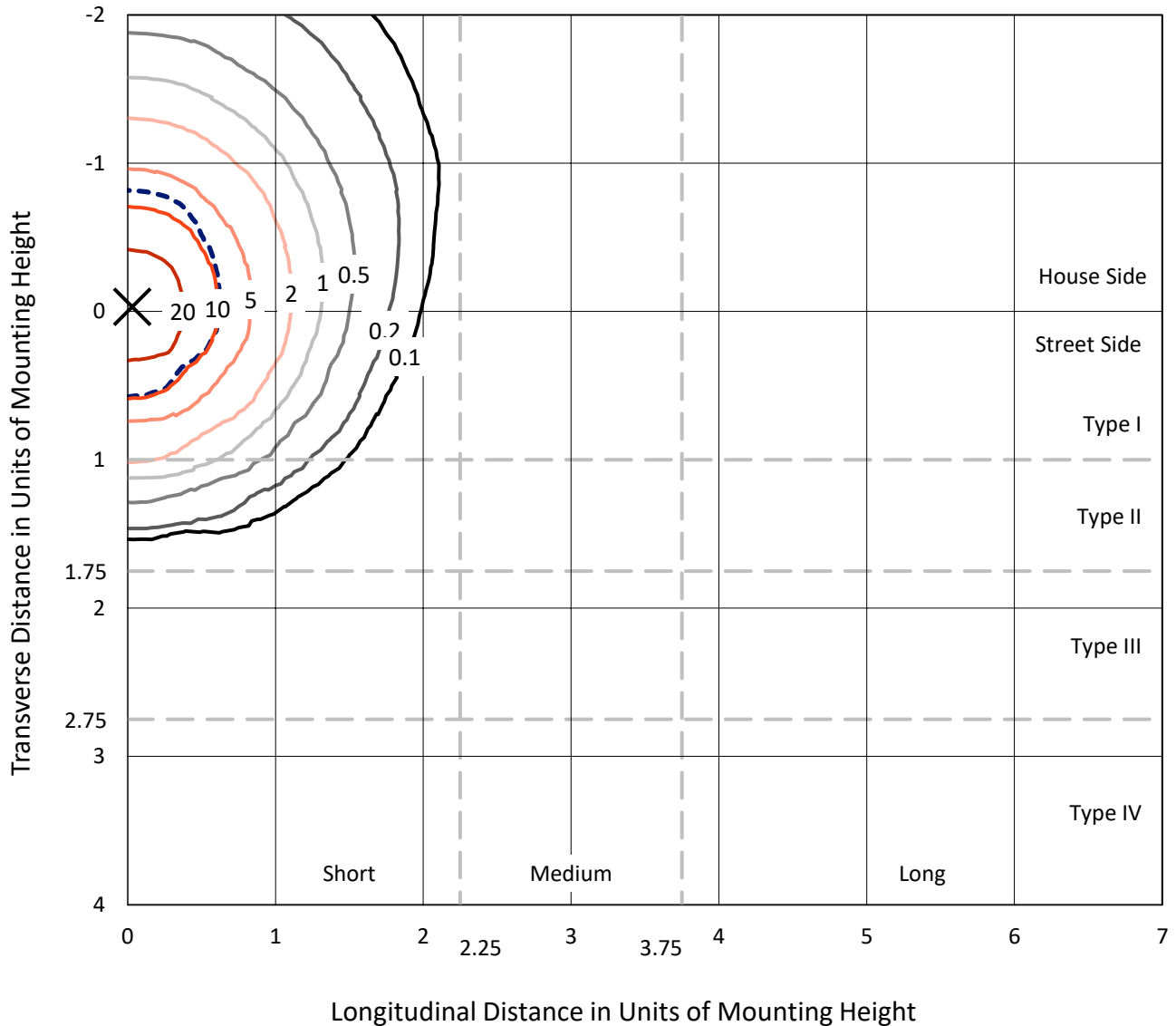
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

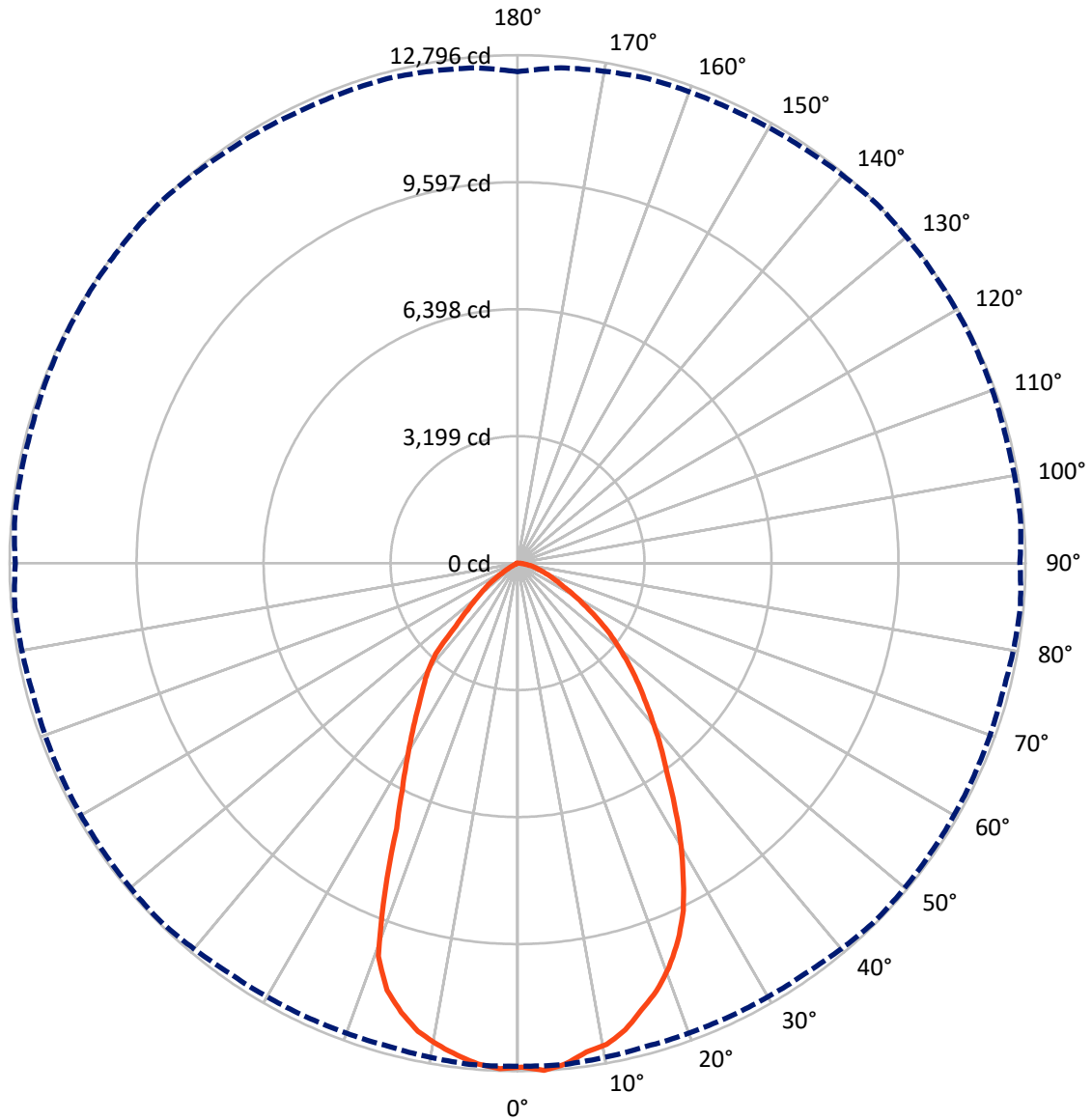
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.7 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	9879.8	0.0	9879.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6802.0	0.0	6802.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	16681.8	0.0	16681.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1190.6	7.1
10°-20°	3192.6	19.1
20°-30°	3893.5	23.3
30°-40°	3554.8	21.3
40°-50°	2568.9	15.4
50°-60°	1402.7	8.4
60°-70°	580.0	3.5
70°-80°	234.9	1.4
80°-90°	63.9	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°	16681.8	100.0
0°-180°	16681.8	100.0



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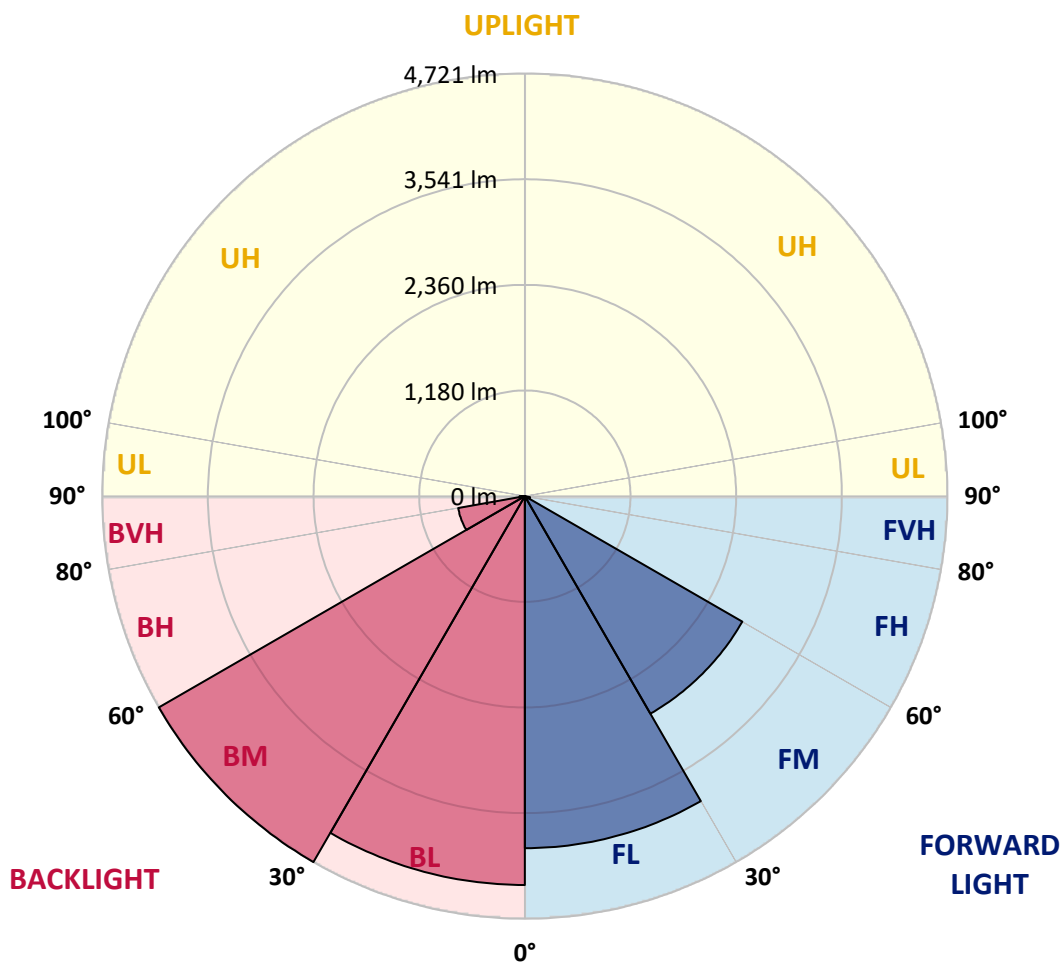
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3932.5	23.6			
FM (30°-60°)	2805.6	16.8			
FH (60°-80°)	58.8	0.4			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	4344.2	26.0	B4/5000		
BM (30°-60°)	4720.8	28.3	B3/5000		
BH (60°-80°)	756.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	58.8	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°	12694.8	12694.8	12694.8	12694.8	12694.8	12694.8	12694.8	12694.8	12694.8	12694.8
2.5°	12671.3	12687.7	12598.5	12607.9	12624.3	12744.1	12713.6	12685.4	12645.5	12713.6
5°	12654.8	12664.2	12570.3	12537.4	12551.5	12659.5	12560.9	12560.9	12551.5	12539.7
7.5°	12528.0	12532.7	12459.9	12401.1	12438.7	12488.1	12415.2	12450.5	12398.8	12438.7
10°	12337.7	12307.2	12220.3	12203.8	12246.1	12293.1	12243.7	12276.6	12229.7	12260.2
12.5°	12058.2	12011.2	11940.7	11919.6	11992.4	12055.8	12015.9	11997.1	11936.0	12011.2
15°	10979.9	10944.7	11104.4	11384.0	11635.3	11689.3	11647.1	11665.9	11539.0	11560.1
17.5°	9037.2	8971.4	9142.9	9805.3	10749.7	11247.7	11210.1	11088.0	10900.0	10942.3
20°	8212.6	8193.8	8175.0	8332.4	8992.5	10503.0	10554.7	10244.6	9976.8	9918.1
22.5°	7747.5	7740.4	7721.6	7756.9	7930.7	8900.9	9492.9	9206.3	9027.8	9011.3
25°	7322.3	7310.5	7254.2	7298.8	7298.8	7355.2	8113.9	8287.8	8130.4	8111.6
27.5°	6890.0	6868.9	6859.5	6880.6	6772.6	6392.0	6584.7	7432.7	7350.5	7355.2
30°	6422.6	6415.5	6389.7	6434.3	6100.7	5628.6	5506.4	6657.5	6673.9	6669.2
32.5°	5727.2	5757.8	5875.2	5924.5	5374.8	4984.9	4780.5	5760.1	6096.0	6089.0
35°	4160.3	4160.3	4543.2	5255.0	4710.0	4416.4	4306.0	4883.9	5525.2	5548.7
37.5°	3420.4	3432.1	3507.3	3831.5	4064.0	3960.7	3927.8	4111.0	4792.3	4829.8
40°	3077.4	3077.4	3077.4	2943.5	2936.4	3568.4	3549.6	3490.8	4139.2	4221.4
42.5°	2764.9	2772.0	2776.7	2438.4	2250.5	3084.4	3042.1	2952.9	3554.3	3650.6
45°	2443.1	2454.9	2469.0	2039.1	1956.8	2219.9	2574.7	2476.0	2976.4	3100.9
47.5°	1491.7	1510.5	1830.0	1729.0	1738.4	1712.5	2100.1	2083.7	2440.8	2616.9
50°	1007.8	1014.8	1045.4	1097.1	1491.7	1346.1	1487.0	1724.3	1853.5	2121.3
52.5°	845.7	857.4	782.3	711.8	979.6	1052.4	1038.3	1280.3	1332.0	1663.2
55°	594.3	631.9	596.7	589.6	556.7	817.5	787.0	984.3	1017.2	1263.8
57.5°	61.1	70.5	122.2	439.3	364.1	462.8	561.4	721.2	754.1	932.6
60°	4.7	4.7	11.7	61.1	265.5	277.2	387.6	444.0	507.4	650.7
62.5°	0.0	2.3	4.7	9.4	42.3	148.0	195.0	232.6	305.4	420.5
65°	0.0	0.0	2.3	7.0	9.4	56.4	75.2	122.2	166.8	260.8
67.5°	0.0	0.0	2.3	4.7	7.0	14.1	25.8	44.6	89.3	148.0
70°	0.0	0.0	2.3	4.7	7.0	11.7	18.8	28.2	39.9	79.9
72.5°	0.0	0.0	2.3	2.3	4.7	11.7	14.1	18.8	28.2	39.9
75°	0.0	0.0	2.3	2.3	7.0	14.1	11.7	14.1	18.8	25.8
77.5°	0.0	0.0	2.3	4.7	7.0	14.1	11.7	14.1	14.1	16.4
80°	0.0	0.0	2.3	4.7	9.4	16.4	14.1	14.1	11.7	11.7
82.5°	0.0	0.0	2.3	7.0	9.4	21.1	21.1	18.8	9.4	7.0
85°	0.0	0.0	4.7	9.4	14.1	23.5	23.5	18.8	7.0	4.7
87.5°	0.0	0.0	4.7	7.0	11.7	16.4	23.5	18.8	7.0	2.3
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°
12694.8	0°	12694.8	12694.8	12694.8	12694.8	12694.8	12694.8	12694.8	12694.8	12694.8
12654.8	2.5°	12718.3	12704.2	12751.2	12770.0	12795.8	12697.1	12636.1	12638.4	12525.6
12511.5	5°	12586.7	12589.1	12650.1	12645.5	12671.3	12617.3	12593.8	12553.8	12455.2
12330.7	7.5°	12419.9	12398.8	12457.5	12502.2	12436.4	12474.0	12419.9	12438.7	12380.0
12170.9	10°	12290.7	12241.4	12295.4	12326.0	12328.3	12290.7	12239.0	12189.7	12168.6
11921.9	12.5°	12004.1	11940.7	12032.3	12074.6	12067.6	11994.7	11936.0	11947.8	11879.6
11485.0	15°	11609.5	11611.8	11677.6	11717.5	11680.0	11663.5	11668.2	11640.0	11581.3
10881.2	17.5°	11005.7	11041.0	11214.8	11311.1	11332.3	11299.4	11282.9	11250.1	11191.3
9918.1	20°	10000.3	10211.7	10521.8	10820.2	10878.9	10869.5	10810.8	10796.7	10763.8
8964.3	22.5°	9117.0	9274.4	9633.8	10099.0	10338.6	10362.1	10291.6	10270.5	10235.2
8111.6	25°	8203.2	8372.4	8696.5	9201.6	9697.3	9798.3	9786.5	9723.1	9685.5
7355.2	27.5°	7432.7	7601.8	7895.5	8351.2	8882.1	9206.3	9236.8	9135.8	9133.5
6681.0	30°	6737.3	6969.9	7193.1	7564.2	8078.7	8565.0	8616.7	8546.2	8553.2
6063.1	32.5°	6192.3	6385.0	6575.3	6824.3	7251.8	7818.0	8020.0	7954.2	7928.4
5548.7	35°	5635.6	5767.2	5962.1	6190.0	6481.3	7042.7	7392.8	7343.4	7317.6
4853.3	37.5°	5001.3	5226.8	5367.8	5623.9	5851.7	6298.1	6791.4	6784.3	6730.3
4261.4	40°	4350.6	4587.9	4801.7	5060.1	5236.2	5591.0	6138.3	6136.0	6143.0
3648.2	42.5°	3761.0	3979.5	4237.9	4519.8	4688.9	4947.3	5534.6	5567.5	5607.4
3143.2	45°	3227.7	3425.1	3664.7	4007.6	4212.0	4360.0	4881.5	5031.9	5029.5
2692.1	47.5°	2748.5	2934.1	3136.1	3469.7	3730.4	3864.3	4296.6	4510.4	4496.3
2208.2	50°	2306.9	2471.3	2682.7	2924.7	3274.7	3392.2	3714.0	3995.9	3974.8
1759.5	52.5°	1855.8	2083.7	2262.2	2483.0	2851.9	2967.0	3216.0	3490.8	3474.4
1320.2	55°	1447.1	1667.9	1884.0	2074.3	2384.4	2555.9	2734.4	3016.3	3011.6
1033.6	57.5°	1094.7	1336.7	1541.0	1721.9	1968.6	2180.0	2323.3	2579.4	2612.2
707.1	60°	810.5	996.0	1216.9	1418.9	1613.9	1832.3	1928.6	2180.0	2194.1
483.9	62.5°	552.0	756.4	972.5	1155.8	1301.4	1526.9	1613.9	1820.6	1846.4
310.1	65°	382.9	514.5	761.1	892.7	1071.2	1263.8	1350.8	1515.2	1566.9
178.5	67.5°	253.7	366.5	594.3	714.1	890.3	1021.9	1132.3	1266.2	1322.6
112.8	70°	138.6	270.2	425.2	563.8	716.5	843.3	951.4	1059.5	1108.8
51.7	72.5°	94.0	180.9	296.0	446.3	577.9	702.4	798.7	878.6	880.9
30.5	75°	47.0	122.2	225.5	345.3	451.0	573.2	660.1	707.1	650.7
18.8	77.5°	28.2	89.3	183.2	277.2	366.5	462.8	512.1	538.0	446.3
14.1	80°	16.4	63.4	143.3	220.8	253.7	340.6	387.6	394.7	298.3
9.4	82.5°	11.7	47.0	112.8	162.1	155.0	239.6	291.3	281.9	190.3
7.0	85°	7.0	32.9	70.5	101.0	94.0	157.4	169.1	173.8	110.4
4.7	87.5°	4.7	18.8	37.6	54.0	44.6	68.1	68.1	82.2	54.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12694.8
12380.0
12431.7
12281.3
12074.6
11820.9
11522.6
11165.5
10688.6
10225.8
9645.6
9128.8
8518.0
7930.7
7282.4
6774.9
6143.0
5586.3
5034.2
4501.0
3993.5
3509.6
3023.4
2598.2
2215.2
1851.1
1555.1
1315.5
1090.0
859.8
608.4
429.9
279.5
176.2
101.0
47.0
0.0

(END OF REPORT)