

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: P638194

Luminaire Tested: **IFLD-S-SA3C-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638194
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16665.9 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

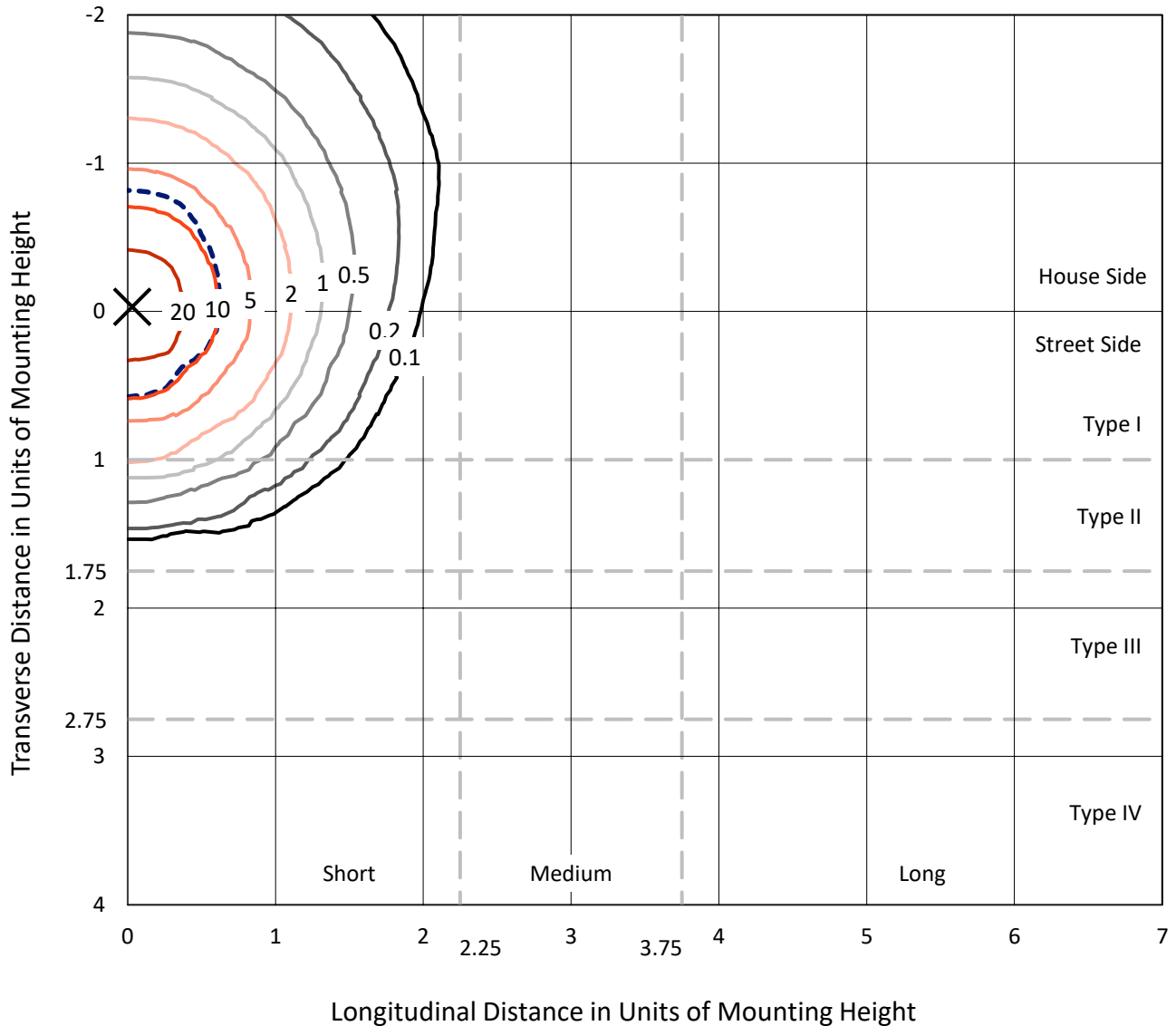
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

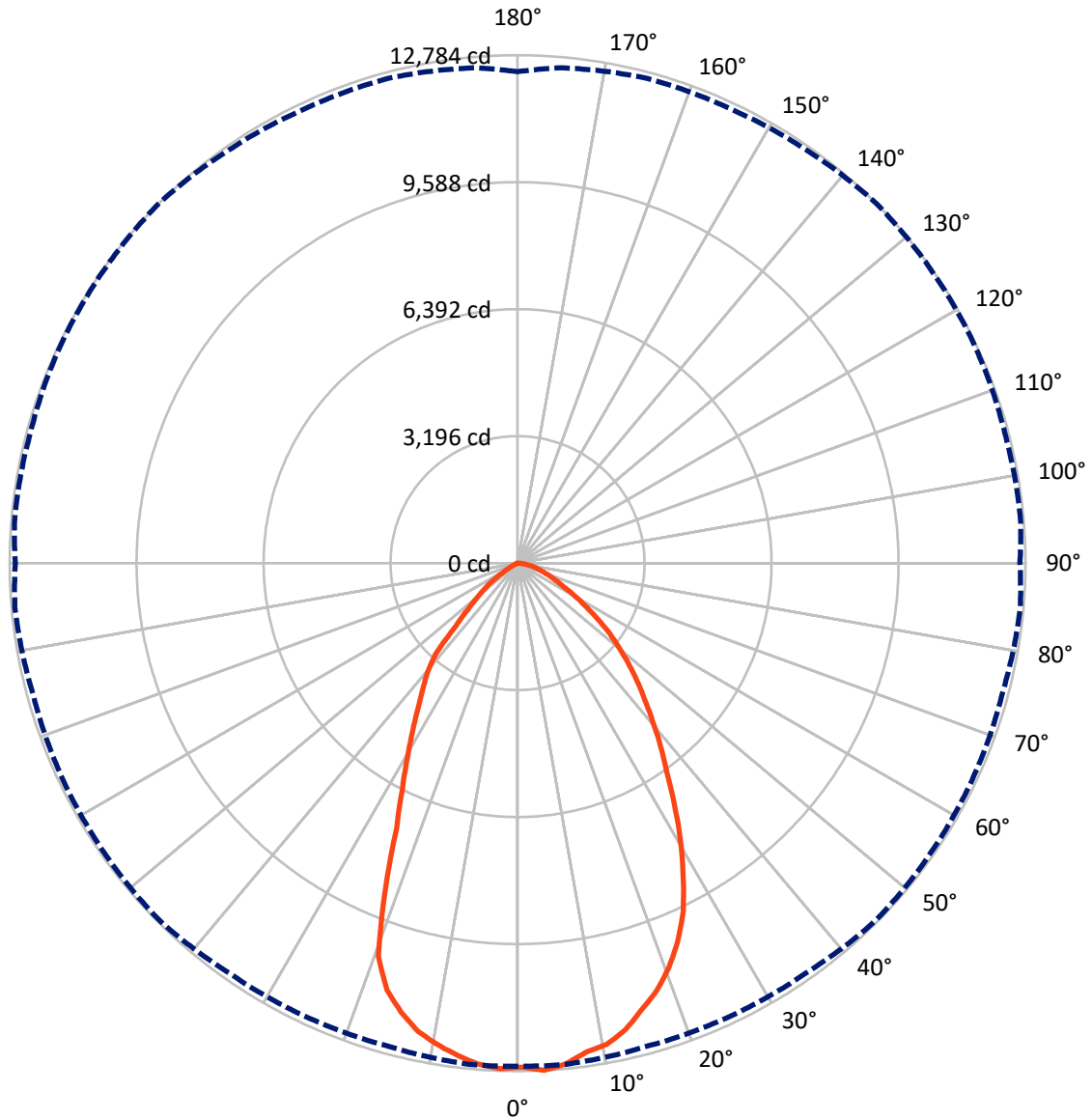
× Max cd
 - - - 1/2 Max cd



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	9870.4	0.0	9870.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6795.5	0.0	6795.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	16665.9	0.0	16665.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1189.4	7.1
10°-20°	3189.6	19.1
20°-30°	3889.8	23.3
30°-40°	3551.4	21.3
40°-50°	2566.5	15.4
50°-60°	1401.3	8.4
60°-70°	579.4	3.5
70°-80°	234.7	1.4
80°-90°	63.8	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°	16665.9	100.0
0°-180°	16665.9	100.0



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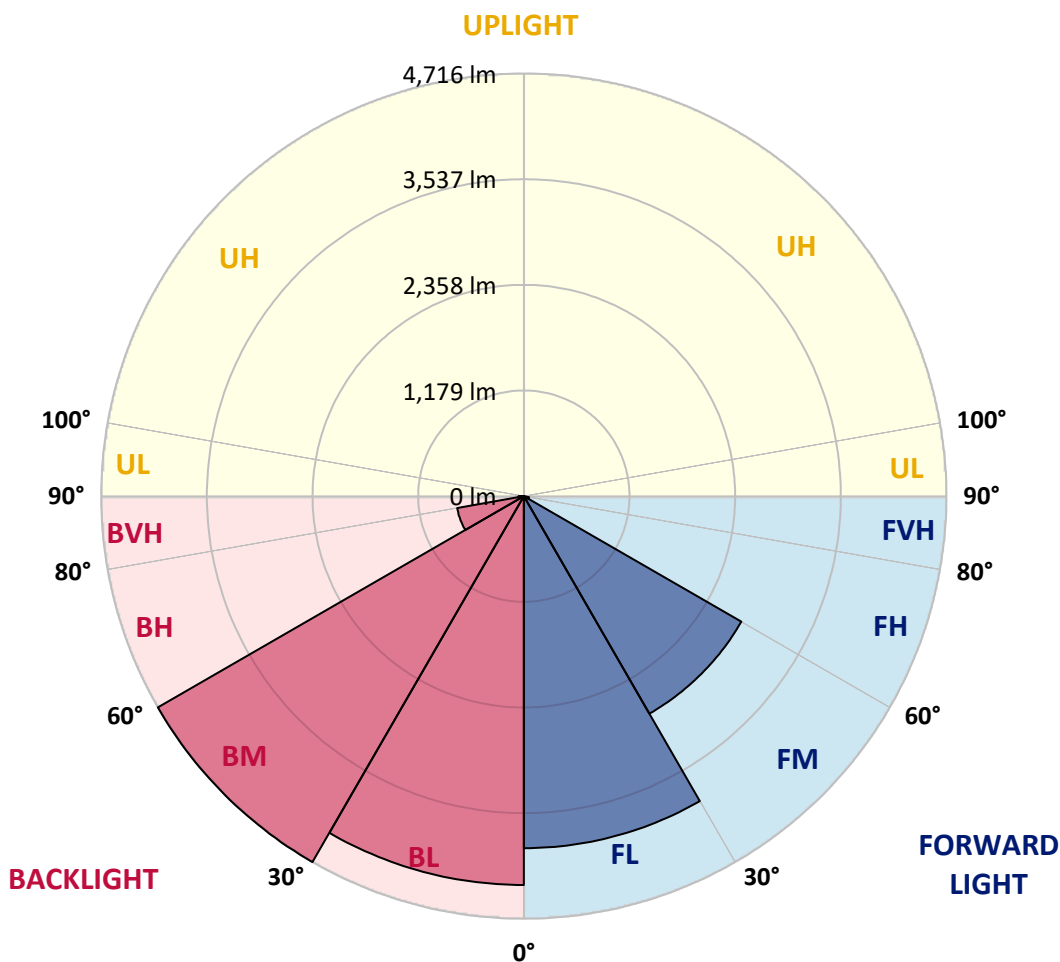
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3928.8	23.6			
FM (30°-60°)	2802.9	16.8			
FH (60°-80°)	58.7	0.4			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	4340.1	26.0	B4/5000		
BM (30°-60°)	4716.3	28.3	B3/5000		
BH (60°-80°)	755.3	4.5	B2/1000		G2/1000
BVH (80°-90°)	58.7	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°	12682.7	12682.7	12682.7	12682.7	12682.7	12682.7	12682.7	12682.7	12682.7	12682.7
2.5°	12659.3	12675.7	12586.5	12595.9	12612.3	12732.0	12701.5	12673.3	12633.5	12701.5
5°	12642.8	12652.2	12558.4	12525.5	12539.6	12647.5	12549.0	12549.0	12539.6	12527.8
7.5°	12516.1	12520.8	12448.0	12389.4	12426.9	12476.2	12403.5	12438.7	12387.0	12426.9
10°	12326.0	12295.5	12208.7	12192.2	12234.5	12281.4	12232.1	12265.0	12218.0	12248.6
12.5°	12046.7	11999.8	11929.4	11908.3	11981.0	12044.4	12004.5	11985.7	11924.7	11999.8
15°	10969.5	10934.3	11093.9	11373.2	11624.3	11678.3	11636.0	11654.8	11528.1	11549.2
17.5°	9028.6	8962.9	9134.2	9796.0	10739.5	11237.0	11199.5	11077.4	10889.7	10931.9
20°	8204.8	8186.0	8167.3	8324.5	8984.0	10493.1	10544.7	10234.9	9967.4	9908.7
22.5°	7740.1	7733.1	7714.3	7749.5	7923.2	8892.5	9483.9	9197.6	9019.2	9002.8
25°	7315.3	7303.6	7247.3	7291.9	7291.9	7348.2	8106.3	8279.9	8122.7	8103.9
27.5°	6883.5	6862.4	6853.0	6874.1	6766.2	6386.0	6578.4	7425.6	7343.5	7348.2
30°	6416.5	6409.4	6383.6	6428.2	6094.9	5623.2	5501.2	6651.2	6667.6	6662.9
32.5°	5721.8	5752.3	5869.6	5918.9	5369.7	4980.2	4776.0	5754.6	6090.2	6083.2
35°	4156.4	4156.4	4538.9	5250.1	4705.6	4412.2	4301.9	4879.2	5519.9	5543.4
37.5°	3417.1	3428.8	3503.9	3827.8	4060.2	3956.9	3924.0	4107.1	4787.7	4825.3
40°	3074.5	3074.5	3074.5	2940.7	2933.6	3565.0	3546.2	3487.5	4135.3	4217.4
42.5°	2762.3	2769.4	2774.1	2436.1	2248.3	3081.5	3039.3	2950.1	3550.9	3647.1
45°	2440.8	2452.5	2466.6	2037.1	1955.0	2217.8	2572.2	2473.7	2973.5	3097.9
47.5°	1490.3	1509.1	1828.2	1727.3	1736.7	1710.9	2098.1	2081.7	2438.4	2614.5
50°	1006.8	1013.9	1044.4	1096.0	1490.3	1344.8	1485.6	1722.6	1851.7	2119.3
52.5°	844.9	856.6	781.5	711.1	978.7	1051.4	1037.3	1279.1	1330.7	1661.6
55°	593.8	631.3	596.1	589.1	556.2	816.7	786.2	983.4	1016.2	1262.6
57.5°	61.0	70.4	122.0	438.9	363.8	462.3	560.9	720.5	753.4	931.7
60°	4.7	4.7	11.7	61.0	265.2	276.9	387.2	443.6	506.9	650.1
62.5°	0.0	2.3	4.7	9.4	42.2	147.9	194.8	232.3	305.1	420.1
65°	0.0	0.0	2.3	7.0	9.4	56.3	75.1	122.0	166.6	260.5
67.5°	0.0	0.0	2.3	4.7	7.0	14.1	25.8	44.6	89.2	147.9
70°	0.0	0.0	2.3	4.7	7.0	11.7	18.8	28.2	39.9	79.8
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°
12682.7	0°	12682.7	12682.7	12682.7	12682.7	12682.7	12682.7	12682.7	12682.7	12682.7
12642.8	2.5°	12706.2	12692.1	12739.1	12757.8	12783.7	12685.1	12624.1	12626.4	12513.8
12499.7	5°	12574.8	12577.1	12638.1	12633.5	12659.3	12605.3	12581.8	12541.9	12443.4
12319.0	7.5°	12408.1	12387.0	12445.7	12490.3	12424.6	12462.1	12408.1	12426.9	12368.3
12159.4	10°	12279.1	12229.8	12283.8	12314.3	12316.6	12279.1	12227.4	12178.2	12157.0
11910.6	12.5°	11992.7	11929.4	12020.9	12063.2	12056.1	11983.4	11924.7	11936.4	11868.4
11474.1	15°	11598.5	11600.8	11666.5	11706.4	11668.9	11652.4	11657.1	11629.0	11570.3
10870.9	17.5°	10995.3	11030.5	11204.2	11300.4	11321.5	11288.7	11272.2	11239.4	11180.7
9908.7	20°	9990.8	10202.0	10511.8	10809.9	10868.6	10859.2	10800.5	10786.4	10753.6
8955.8	22.5°	9108.4	9265.6	9624.7	10089.4	10328.8	10352.2	10281.8	10260.7	10225.5
8103.9	25°	8195.4	8364.4	8688.3	9192.9	9688.1	9789.0	9777.3	9713.9	9676.3
7348.2	27.5°	7425.6	7594.6	7888.0	8343.3	8873.7	9197.6	9228.1	9127.2	9124.8
6674.6	30°	6731.0	6963.3	7186.3	7557.1	8071.0	8556.9	8608.5	8538.1	8545.1
6057.4	32.5°	6186.5	6378.9	6569.0	6817.8	7244.9	7810.5	8012.4	7946.7	7920.8
5543.4	35°	5630.3	5761.7	5956.5	6184.1	6475.1	7036.1	7385.7	7336.5	7310.6
4848.7	37.5°	4996.6	5221.9	5362.7	5618.5	5846.2	6292.1	6784.9	6777.9	6723.9
4257.3	40°	4346.5	4583.5	4797.1	5055.3	5231.3	5585.7	6132.5	6130.1	6137.2
3644.8	42.5°	3757.4	3975.7	4233.8	4515.5	4684.4	4942.6	5529.3	5562.2	5602.1
3140.2	45°	3224.7	3421.8	3661.2	4003.8	4208.0	4355.9	4876.9	5027.1	5024.7
2689.6	47.5°	2745.9	2931.3	3133.1	3466.4	3726.9	3860.7	4292.5	4506.1	4492.0
2206.1	50°	2304.7	2469.0	2680.2	2921.9	3271.6	3388.9	3710.5	3992.1	3971.0
1757.8	52.5°	1854.1	2081.7	2260.1	2480.7	2849.2	2964.2	3212.9	3487.5	3471.1
1319.0	55°	1445.7	1666.3	1882.2	2072.3	2382.1	2553.4	2731.8	3013.4	3008.7
1032.6	57.5°	1093.7	1335.4	1539.6	1720.3	1966.7	2177.9	2321.1	2576.9	2609.8
706.4	60°	809.7	995.1	1215.7	1417.5	1612.3	1830.6	1926.8	2177.9	2192.0
483.5	62.5°	551.5	755.7	971.6	1154.7	1300.2	1525.5	1612.3	1818.9	1844.7
309.8	65°	382.5	514.0	760.4	891.8	1070.2	1262.6	1349.5	1513.8	1565.4
178.4	67.5°	253.5	366.1	593.8	713.5	889.5	1020.9	1131.2	1265.0	1321.3
112.7	70°	138.5	269.9	424.8	563.3	715.8	842.5	950.5	1058.5	1107.7
51.6	72.5°	93.9	180.7	295.7	445.9	577.3	701.7	798.0	877.7	880.1
30.5	75°	46.9	122.0	225.3	345.0	450.6	572.6	659.5	706.4	650.1
18.8	77.5°	28.2	89.2	183.1	276.9	366.1	462.3	511.6	537.4	445.9
14.1	80°	16.4	63.4	143.2	220.6	253.5	340.3	387.2	394.3	298.1
9.4	82.5°	11.7	46.9	112.7	161.9	154.9	239.4	291.0	281.6	190.1
7.0	85°	7.0	32.9	70.4	100.9	93.9	157.2	169.0	173.7	110.3
4.7	87.5°	4.7	18.8	37.6	54.0	44.6	68.1	68.1	82.1	54.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12682.7
12368.3
12419.9
12269.7
12063.2
11809.7
11511.6
11154.9
10678.5
10216.1
9636.4
9120.1
8509.9
7923.2
7275.4
6768.5
6137.2
5581.0
5029.4
4496.7
3989.8
3506.3
3020.5
2595.7
2213.1
1849.4
1553.7
1314.3
1089.0
859.0
607.9
429.5
279.3
176.0
100.9
46.9
0.0

(END OF REPORT)