

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: P637264

Luminaire Tested: **IFLD-S-SA3A-722-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637264
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9774.6 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

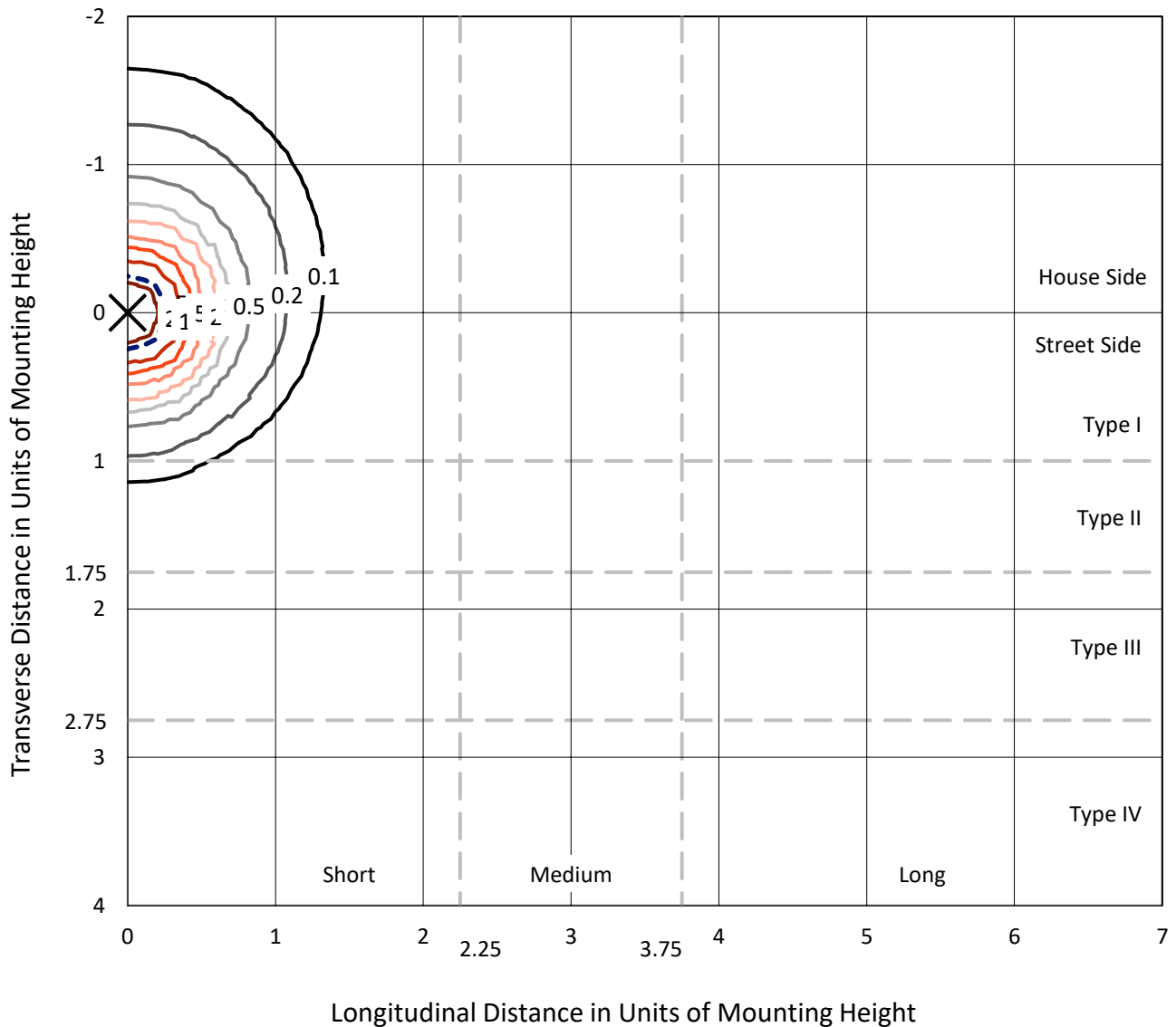
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

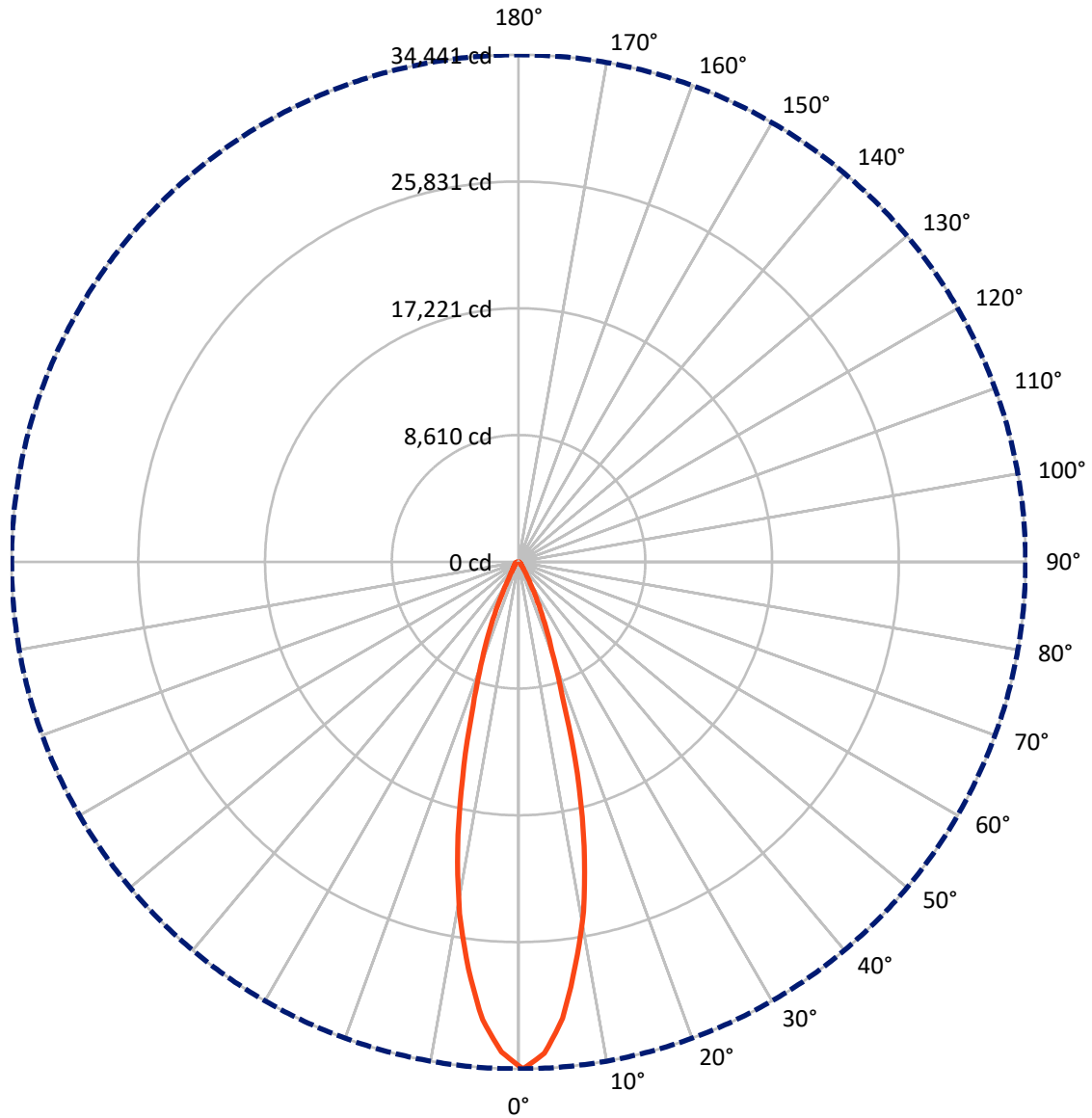
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 86.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5153.8	0.0	5153.8
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	4620.8	0.0	4620.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	9774.6	0.0	9774.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2779.7	28.4
10°-20°	4209.9	43.1
20°-30°	1776.6	18.2
30°-40°	463.3	4.7
40°-50°	234.4	2.4
50°-60°	153.2	1.6
60°-70°	91.8	0.9
70°-80°	48.3	0.5
80°-90°	17.4	0.2
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°	9774.6	100.0
0°-180°	9774.6	100.0

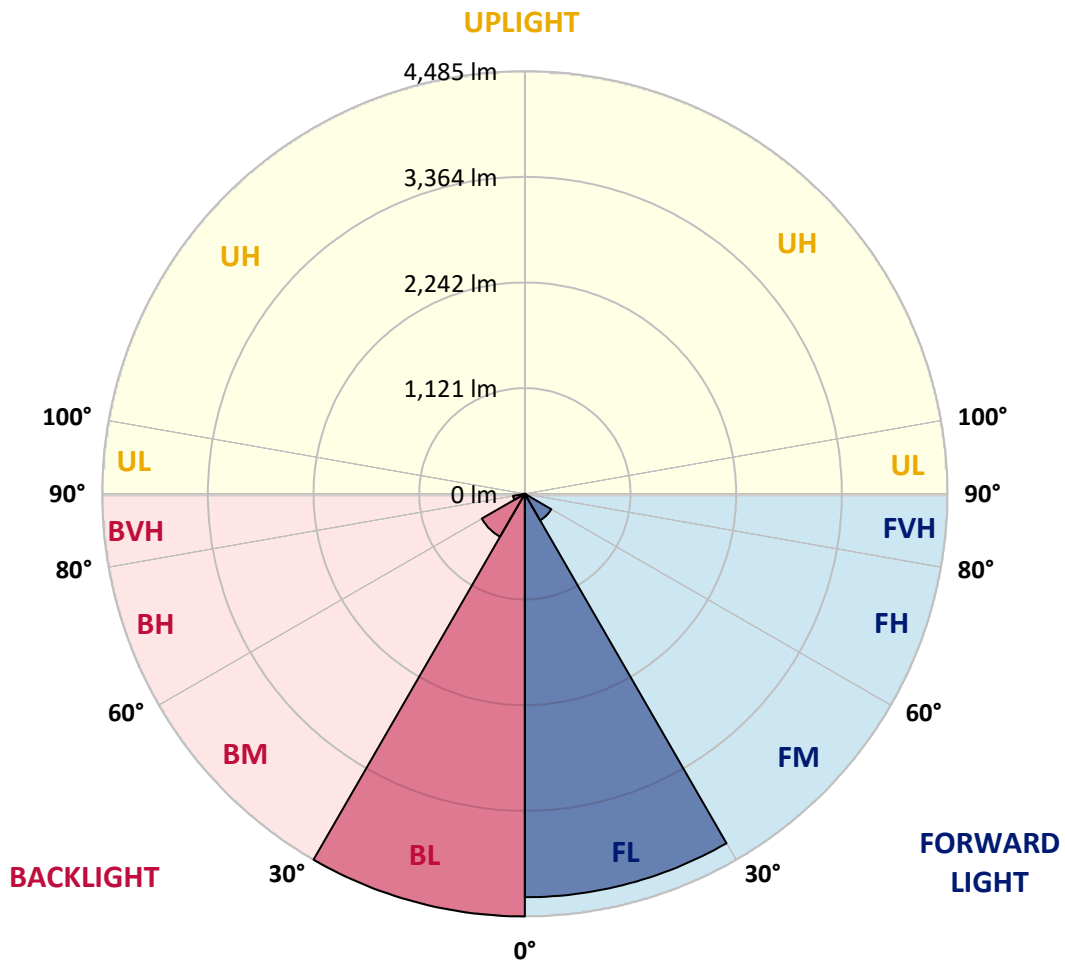


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4281.2	43.8			
FM (30°-60°)	324.2	3.3			
FH (60°-80°)	13.2	0.1			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	4485.0	45.9	B4/5000		
BM (30°-60°)	526.7	5.4	B1/1000		
BH (60°-80°)	126.8	1.3	B1/500		G0/660
BVH (80°-90°)	15.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	34441.4	34441.4	34441.4	34441.4	34441.4	34441.4	34441.4	34441.4	34441.4	34441.4
2.5°	33438.1	33456.8	33387.6	33536.9	33420.5	33732.3	33577.5	33819.0	33737.8	33872.8
5°	31154.9	31124.2	31104.4	31336.0	31269.0	31603.8	31389.8	31319.5	31536.9	31497.4
7.5°	27707.0	27788.2	27742.1	27802.5	27836.5	28218.5	28339.3	28244.9	28248.2	28303.1
10°	24172.4	24052.8	23882.6	23995.7	24235.0	24401.8	24334.9	24473.2	24442.5	24573.1
12.5°	19823.3	19917.7	19822.2	19721.3	20139.5	20093.4	20209.7	20285.5	20095.6	20518.2
15°	14932.0	14981.4	15097.7	15090.1	15411.7	15476.5	15461.1	15541.2	15393.0	15463.3
17.5°	9592.8	9759.6	10072.5	10601.6	11196.5	11265.7	11248.1	11182.3	11110.9	11031.9
20°	6443.5	6425.9	6539.0	6693.8	7925.4	8251.4	8241.5	8035.2	7736.6	7679.5
22.5°	4513.7	4546.7	4531.3	4685.0	4939.6	5838.7	5727.8	5518.1	5420.4	5356.8
25°	2969.3	2957.2	3034.0	3080.1	3298.6	3408.4	3796.9	3719.0	3568.6	3585.1
27.5°	1810.1	1825.5	1854.0	1893.5	2048.3	2013.2	2234.9	2264.6	2216.3	2164.7
30°	1110.9	1121.8	1144.9	1173.4	1227.2	1188.8	1250.3	1356.8	1339.2	1303.0
32.5°	754.1	755.2	771.7	782.7	776.1	739.8	759.6	860.6	862.8	859.5
35°	542.3	542.3	557.6	566.4	547.8	518.1	521.4	584.0	611.4	616.9
37.5°	374.3	375.4	401.8	428.1	407.2	399.6	386.4	428.1	472.0	478.6
40°	284.3	283.2	296.4	316.1	318.3	304.1	308.5	334.8	379.8	385.3
42.5°	230.5	231.6	238.2	236.0	237.1	255.8	262.4	274.4	316.1	326.0
45°	194.3	195.4	198.7	187.7	183.3	211.9	220.6	227.2	262.4	274.4
47.5°	160.3	162.5	165.8	153.7	151.5	170.1	185.5	192.1	222.8	236.0
50°	115.3	117.5	129.5	122.9	129.5	133.9	154.8	164.7	185.5	203.1
52.5°	83.4	85.6	88.9	90.0	106.5	108.7	124.0	139.4	149.3	169.0
55°	65.9	68.1	65.9	63.7	77.9	90.0	95.5	112.0	119.6	142.7
57.5°	37.3	39.5	42.8	49.4	51.6	69.2	74.6	88.9	95.5	117.5
60°	6.6	7.7	12.1	29.6	36.2	43.9	56.0	68.1	76.8	92.2
62.5°	1.1	1.1	2.2	6.6	20.9	30.7	40.6	48.3	56.0	70.3
65°	0.0	0.0	1.1	2.2	5.5	17.6	22.0	28.5	38.4	50.5
67.5°	0.0	0.0	1.1	2.2	3.3	6.6	9.9	17.6	22.0	34.0
70°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	7.7	13.2	20.9
72.5°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	6.6	6.6	13.2
75°	0.0	0.0	1.1	2.2	3.3	5.5	6.6	6.6	5.5	5.5
77.5°	0.0	0.0	1.1	2.2	4.4	6.6	7.7	6.6	4.4	4.4
80°	0.0	0.0	2.2	3.3	5.5	7.7	9.9	7.7	4.4	2.2
82.5°	0.0	0.0	2.2	4.4	5.5	8.8	12.1	9.9	4.4	2.2
85°	0.0	0.0	1.1	3.3	6.6	8.8	12.1	8.8	4.4	1.1
87.5°	0.0	0.0	1.1	1.1	2.2	3.3	6.6	5.5	2.2	1.1
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°
34441.4	0°	34441.4	34441.4	34441.4	34441.4	34441.4	34441.4	34441.4	34441.4	34441.4
33617.0	2.5°	33810.2	33985.9	34022.1	33973.8	34044.0	33917.8	33821.2	33570.9	33420.5
31485.3	5°	31688.4	31662.0	31845.3	31905.7	31898.0	31801.4	31666.4	31514.9	31367.8
28196.6	7.5°	28372.2	28406.2	28573.1	28679.6	28625.8	28505.0	28411.7	28297.6	28198.8
24620.3	10°	24845.3	24611.5	24819.0	24819.0	24962.8	24621.4	24653.2	24365.6	24378.8
20510.5	12.5°	20580.8	20665.3	20699.3	20797.0	20629.1	20447.9	20226.2	20182.3	20045.1
15329.4	15°	15550.0	15791.5	15584.0	15938.6	15767.3	15578.5	15544.5	15204.2	15311.8
11118.6	17.5°	11063.7	11330.4	11413.9	11616.9	11461.1	11349.1	11207.5	11104.3	11096.6
7783.8	20°	7845.3	8113.1	8174.6	8418.3	8400.7	8365.6	8245.9	8115.3	7973.7
5298.6	22.5°	5378.7	5597.2	5801.3	6129.6	6124.1	6020.9	6008.8	5824.4	5827.7
3579.6	25°	3616.9	3776.1	3824.4	4160.3	4197.6	4186.6	4124.1	3952.8	4017.6
2186.6	27.5°	2188.8	2328.2	2491.8	2610.3	2722.3	2704.7	2642.2	2546.7	2504.9
1313.9	30°	1349.1	1411.6	1472.0	1614.7	1681.7	1716.8	1687.2	1598.2	1604.8
865.0	32.5°	883.6	936.3	980.2	1070.3	1105.4	1170.1	1158.1	1139.4	1117.5
622.4	35°	644.3	682.8	712.4	754.1	799.1	854.0	862.8	855.1	846.3
480.8	37.5°	491.8	531.3	565.3	582.9	618.0	660.8	685.0	683.9	677.3
391.9	40°	399.6	429.2	459.9	483.0	507.1	539.0	568.6	571.9	571.9
329.3	42.5°	333.7	358.9	389.7	413.8	431.4	461.0	491.8	494.0	491.8
278.8	45°	285.4	307.4	337.0	365.5	379.8	401.8	431.4	438.0	433.6
239.3	47.5°	248.1	267.8	293.1	323.8	339.2	358.9	386.4	394.1	393.0
206.4	50°	213.0	236.0	261.3	286.5	306.3	324.9	351.3	360.0	356.8
175.6	52.5°	187.7	208.6	230.5	258.0	281.0	297.5	318.3	333.7	329.3
148.2	55°	157.0	182.2	205.3	228.3	256.9	274.4	294.2	312.8	308.5
125.1	57.5°	136.1	157.0	183.3	204.2	232.7	253.6	273.3	293.1	292.0
102.1	60°	114.2	136.1	161.4	183.3	209.7	232.7	252.5	274.4	276.6
76.8	62.5°	90.0	116.4	138.3	163.6	189.9	215.1	232.7	254.7	258.0
58.2	65°	68.1	95.5	119.6	143.8	170.1	197.6	213.0	231.6	234.9
42.8	67.5°	50.5	73.5	102.1	124.0	151.5	177.8	192.1	207.5	213.0
26.3	70°	38.4	56.0	85.6	106.5	135.0	155.9	171.2	184.4	188.8
17.6	72.5°	24.1	43.9	69.2	91.1	116.4	135.0	146.0	153.7	160.3
9.9	75°	16.5	34.0	56.0	77.9	96.6	110.9	120.7	127.3	132.8
4.4	77.5°	9.9	26.3	46.1	64.8	76.8	87.8	97.7	102.1	105.4
3.3	80°	5.5	19.8	38.4	52.7	60.4	68.1	75.7	81.2	83.4
2.2	82.5°	3.3	15.4	30.7	40.6	43.9	51.6	59.3	62.6	62.6
1.1	85°	2.2	11.0	20.9	29.6	31.8	37.3	39.5	41.7	43.9
1.1	87.5°	2.2	6.6	13.2	16.5	17.6	19.8	20.9	23.1	25.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
34441.4
33309.7
31203.2
27864.0
24250.4
19919.9
15204.2
10892.5
7912.2
5764.0
3915.5
2468.7
1576.3
1109.8
843.0
674.0
565.3
489.6
433.6
390.8
354.6
328.2
310.6
293.1
277.7
260.2
238.2
215.1
191.0
159.2
131.7
104.3
81.2
61.5
42.8
24.1
0.0

(END OF REPORT)