

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: P637377

Luminaire Tested: **IFLD-S-SA2C-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637377
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13708.6 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

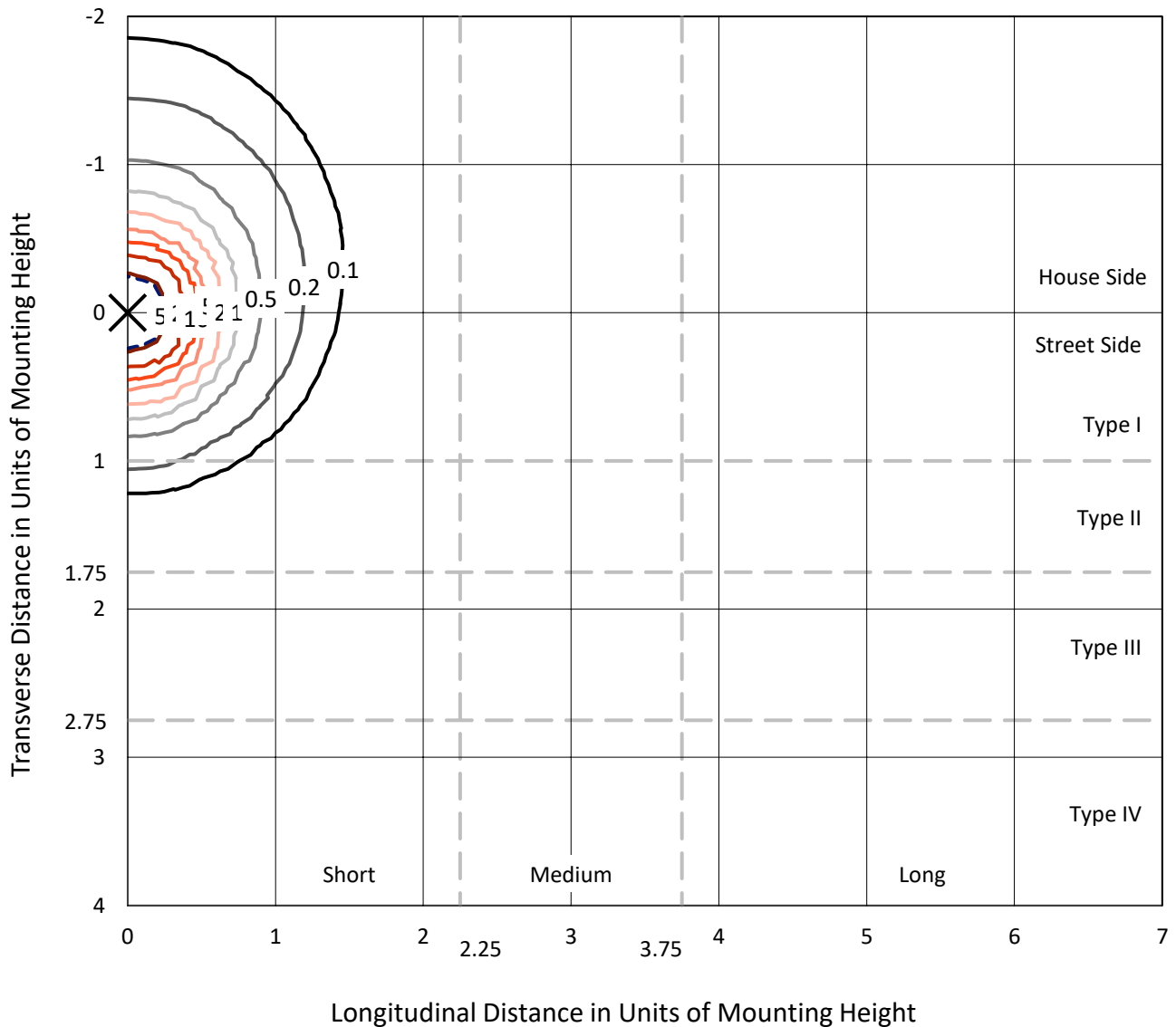
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

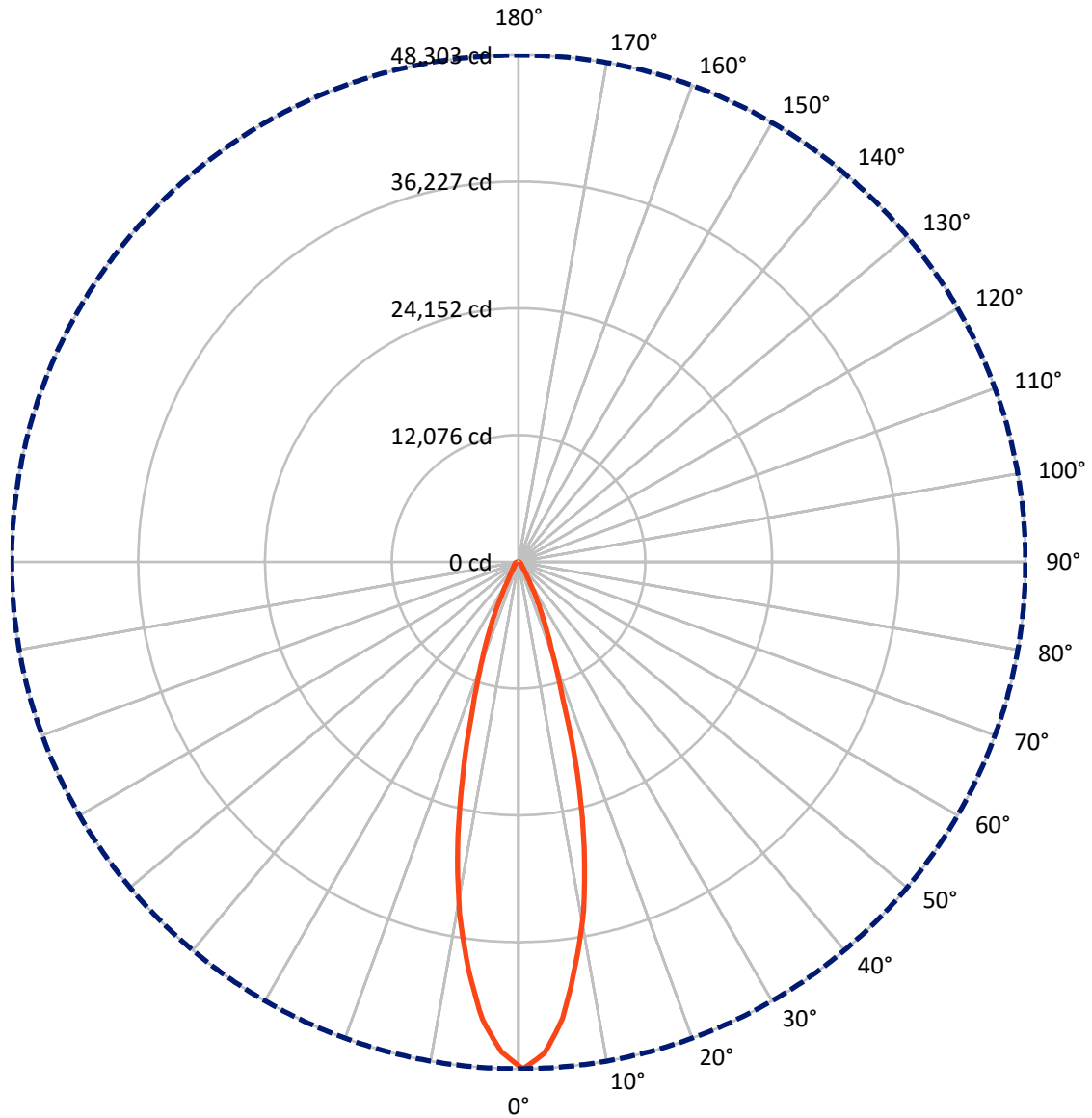
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 120.8 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	7228.1	0.0	7228.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6480.5	0.0	6480.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	13708.6	0.0	13708.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3898.5	28.4
10°-20°	5904.2	43.1
20°-30°	2491.6	18.2
30°-40°	649.8	4.7
40°-50°	328.7	2.4
50°-60°	214.8	1.6
60°-70°	128.7	0.9
70°-80°	67.7	0.5
80°-90°	24.5	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°	13708.6	100.0
0°-180°	13708.6	100.0

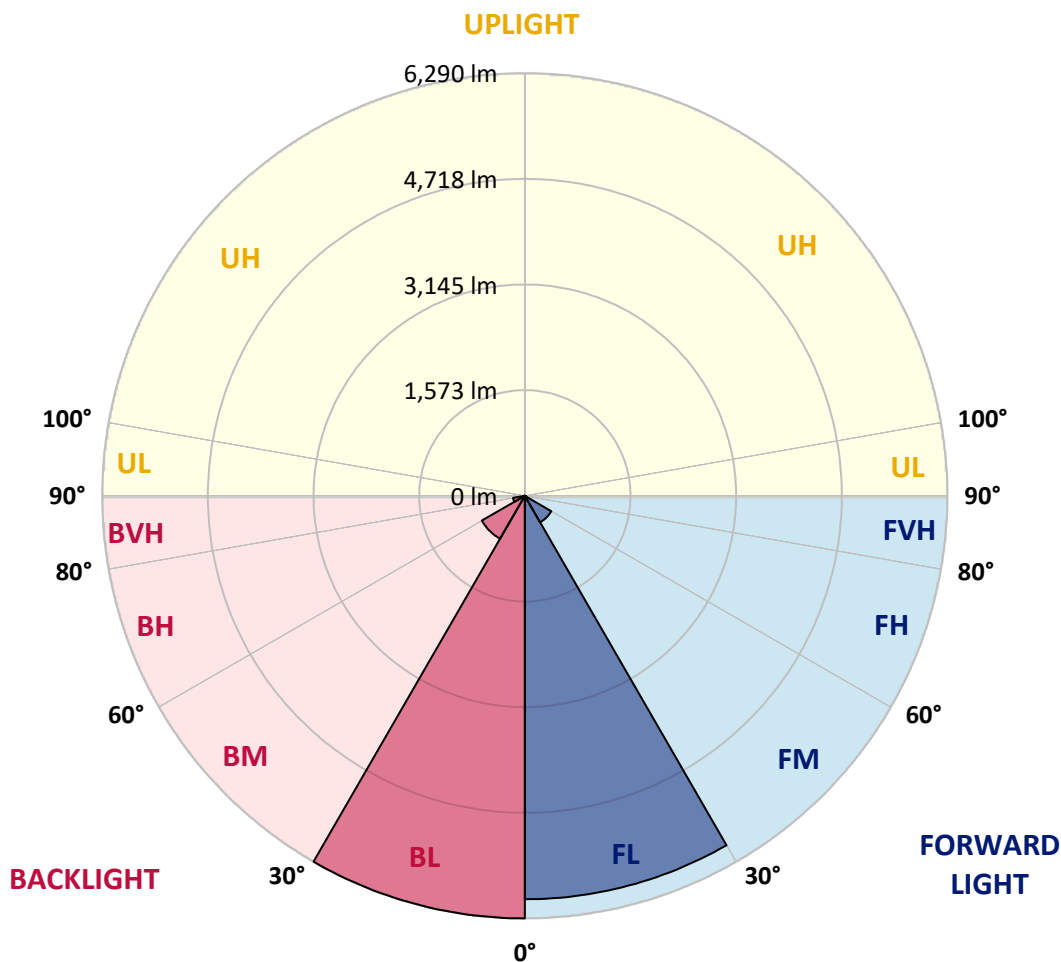


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6004.3	43.8			
FM (30°-60°)	454.7	3.3			
FH (60°-80°)	18.5	0.1			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	6290.1	45.9	B5		
BM (30°-60°)	738.6	5.4	B1/1000		
BH (60°-80°)	177.9	1.3	B1/500		G0/660
BVH (80°-90°)	21.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48303.1	48303.1	48303.1	48303.1	48303.1	48303.1	48303.1	48303.1	48303.1	48303.1
2.5°	46896.0	46922.2	46825.2	47034.6	46871.4	47308.6	47091.5	47430.2	47316.3	47505.7
5°	43693.9	43650.8	43623.1	43947.9	43854.0	44323.5	44023.3	43924.8	44229.6	44174.2
7.5°	38858.3	38972.3	38907.6	38992.3	39040.0	39575.7	39745.1	39612.7	39617.3	39694.3
10°	33901.2	33733.4	33494.7	33653.3	33988.9	34222.9	34129.0	34323.0	34279.9	34463.1
12.5°	27801.7	27934.1	27800.2	27658.5	28245.1	28180.4	28343.6	28449.8	28183.5	28776.2
15°	20941.7	21011.0	21174.2	21163.4	21614.5	21705.3	21683.8	21796.1	21588.3	21686.8
17.5°	13453.6	13687.6	14126.4	14868.4	15702.8	15799.8	15775.2	15682.8	15582.7	15471.9
20°	9036.8	9012.2	9170.8	9387.8	11115.1	11572.4	11558.5	11269.1	10850.3	10770.3
22.5°	6330.4	6376.6	6355.0	6570.6	6927.7	8188.6	8033.1	7739.0	7602.0	7512.7
25°	4164.3	4147.4	4255.2	4319.8	4626.2	4780.1	5325.1	5215.8	5004.9	5028.0
27.5°	2538.6	2560.2	2600.2	2655.6	2872.7	2823.4	3134.4	3176.0	3108.2	3035.9
30°	1558.0	1573.4	1605.7	1645.7	1721.2	1667.3	1753.5	1902.8	1878.2	1827.4
32.5°	1057.6	1059.2	1082.3	1097.7	1088.4	1037.6	1065.3	1207.0	1210.0	1205.4
35°	760.5	760.5	782.1	794.4	768.2	726.6	731.3	819.0	857.5	865.2
37.5°	525.0	526.5	563.5	600.4	571.2	560.4	541.9	600.4	662.0	671.2
40°	398.7	397.2	415.7	443.4	446.5	426.4	432.6	469.5	532.7	540.4
42.5°	323.3	324.8	334.1	331.0	332.5	358.7	367.9	384.9	443.4	457.2
45°	272.5	274.0	278.6	263.3	257.1	297.1	309.4	318.7	367.9	384.9
47.5°	224.8	227.8	232.5	215.5	212.4	238.6	260.2	269.4	312.5	331.0
50°	161.6	164.7	181.7	172.4	181.7	187.8	217.1	230.9	260.2	284.8
52.5°	117.0	120.1	124.7	126.2	149.3	152.4	174.0	195.5	209.4	237.1
55°	92.4	95.4	92.4	89.3	109.3	126.2	133.9	157.0	167.8	200.1
57.5°	52.3	55.4	60.0	69.3	72.4	97.0	104.7	124.7	133.9	164.7
60°	9.2	10.8	16.9	41.6	50.8	61.6	78.5	95.4	107.8	129.3
62.5°	1.5	1.5	3.1	9.2	29.3	43.1	57.0	67.7	78.5	98.5
65°	0.0	0.0	1.5	3.1	7.7	24.6	30.8	40.0	53.9	70.8
67.5°	0.0	0.0	1.5	3.1	4.6	9.2	13.9	24.6	30.8	47.7
70°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	10.8	18.5	29.3
72.5°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	9.2	9.2	18.5
75°	0.0	0.0	1.5	3.1	4.6	7.7	9.2	9.2	7.7	7.7
77.5°	0.0	0.0	1.5	3.1	6.2	9.2	10.8	9.2	6.2	6.2
80°	0.0	0.0	3.1	4.6	7.7	10.8	13.9	10.8	6.2	3.1
82.5°	0.0	0.0	3.1	6.2	7.7	12.3	16.9	13.9	6.2	3.1
85°	0.0	0.0	1.5	4.6	9.2	12.3	16.9	12.3	6.2	1.5
87.5°	0.0	0.0	1.5	1.5	3.1	4.6	9.2	7.7	3.1	1.5
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°
48303.1	0°	48303.1	48303.1	48303.1	48303.1	48303.1	48303.1	48303.1	48303.1	48303.1
47147.0	2.5°	47417.9	47664.2	47715.0	47647.3	47745.8	47568.8	47433.3	47082.3	46871.4
44157.3	5°	44442.1	44405.1	44662.2	44746.9	44736.1	44600.6	44411.3	44198.8	43992.5
39544.9	7.5°	39791.3	39839.0	40073.0	40222.3	40146.9	39977.5	39846.7	39686.6	39548.0
34529.3	10°	34844.9	34517.0	34807.9	34807.9	35009.6	34530.8	34575.5	34172.1	34190.6
28765.4	12.5°	28863.9	28982.5	29030.2	29167.2	28931.7	28677.7	28366.7	28305.1	28112.7
21499.0	15°	21808.5	22147.1	21856.2	22353.4	22113.3	21848.5	21800.8	21323.5	21474.4
15593.5	17.5°	15516.5	15890.6	16007.6	16292.5	16073.8	15916.8	15718.2	15573.5	15562.7
10916.5	20°	11002.8	11378.4	11464.6	11806.4	11781.7	11732.5	11564.7	11381.5	11182.9
7431.1	22.5°	7543.5	7849.9	8136.2	8596.5	8588.8	8444.1	8427.2	8168.5	8173.2
5020.3	25°	5072.6	5295.9	5363.6	5834.7	5887.0	5871.6	5783.9	5543.7	5634.5
3066.7	27.5°	3069.7	3265.3	3494.6	3660.9	3817.9	3793.3	3705.6	3571.6	3513.1
1842.8	30°	1892.0	1979.8	2064.5	2264.6	2358.5	2407.8	2366.2	2241.5	2250.7
1213.1	32.5°	1239.3	1313.2	1374.8	1501.0	1550.3	1641.1	1624.2	1598.0	1567.2
872.9	35°	903.7	957.6	999.1	1057.6	1120.8	1197.7	1210.0	1199.3	1186.9
674.3	37.5°	689.7	745.1	792.8	817.5	866.7	926.8	960.6	959.1	949.9
549.6	40°	560.4	601.9	645.0	677.4	711.2	755.9	797.5	802.1	802.1
461.8	42.5°	468.0	503.4	546.5	580.4	605.0	646.6	689.7	692.8	689.7
391.0	45°	400.3	431.1	472.6	512.7	532.7	563.5	605.0	614.3	608.1
335.6	47.5°	347.9	375.6	411.0	454.2	475.7	503.4	541.9	552.7	551.1
289.4	50°	298.7	331.0	366.4	401.8	429.5	455.7	492.6	505.0	500.3
246.3	52.5°	263.3	292.5	323.3	361.8	394.1	417.2	446.5	468.0	461.8
207.8	55°	220.1	255.6	287.9	320.2	360.2	384.9	412.6	438.8	432.6
175.5	57.5°	190.9	220.1	257.1	286.3	326.4	355.6	383.3	411.0	409.5
143.2	60°	160.1	190.9	226.3	257.1	294.0	326.4	354.1	384.9	388.0
107.8	62.5°	126.2	163.2	194.0	229.4	266.3	301.7	326.4	357.2	361.8
81.6	65°	95.4	133.9	167.8	201.7	238.6	277.1	298.7	324.8	329.5
60.0	67.5°	70.8	103.1	143.2	174.0	212.4	249.4	269.4	291.0	298.7
36.9	70°	53.9	78.5	120.1	149.3	189.4	218.6	240.2	258.6	264.8
24.6	72.5°	33.9	61.6	97.0	127.8	163.2	189.4	204.8	215.5	224.8
13.9	75°	23.1	47.7	78.5	109.3	135.5	155.5	169.3	178.6	186.3
6.2	77.5°	13.9	36.9	64.7	90.8	107.8	123.2	137.0	143.2	147.8
4.6	80°	7.7	27.7	53.9	73.9	84.7	95.4	106.2	113.9	117.0
3.1	82.5°	4.6	21.6	43.1	57.0	61.6	72.4	83.1	87.8	87.8
1.5	85°	3.1	15.4	29.3	41.6	44.6	52.3	55.4	58.5	61.6
1.5	87.5°	3.1	9.2	18.5	23.1	24.6	27.7	29.3	32.3	35.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
48303.1
46715.9
43761.6
39078.5
34010.5
27937.2
21323.5
15276.4
11096.7
8083.9
5491.4
3462.3
2210.7
1556.4
1182.3
945.2
792.8
686.6
608.1
548.1
497.3
460.3
435.7
411.0
389.5
364.9
334.1
301.7
267.9
223.2
184.7
146.3
113.9
86.2
60.0
33.9
0.0

(END OF REPORT)