

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: P637294

Luminaire Tested: **IFLD-S-SA3B-727-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637294
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13724.9 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

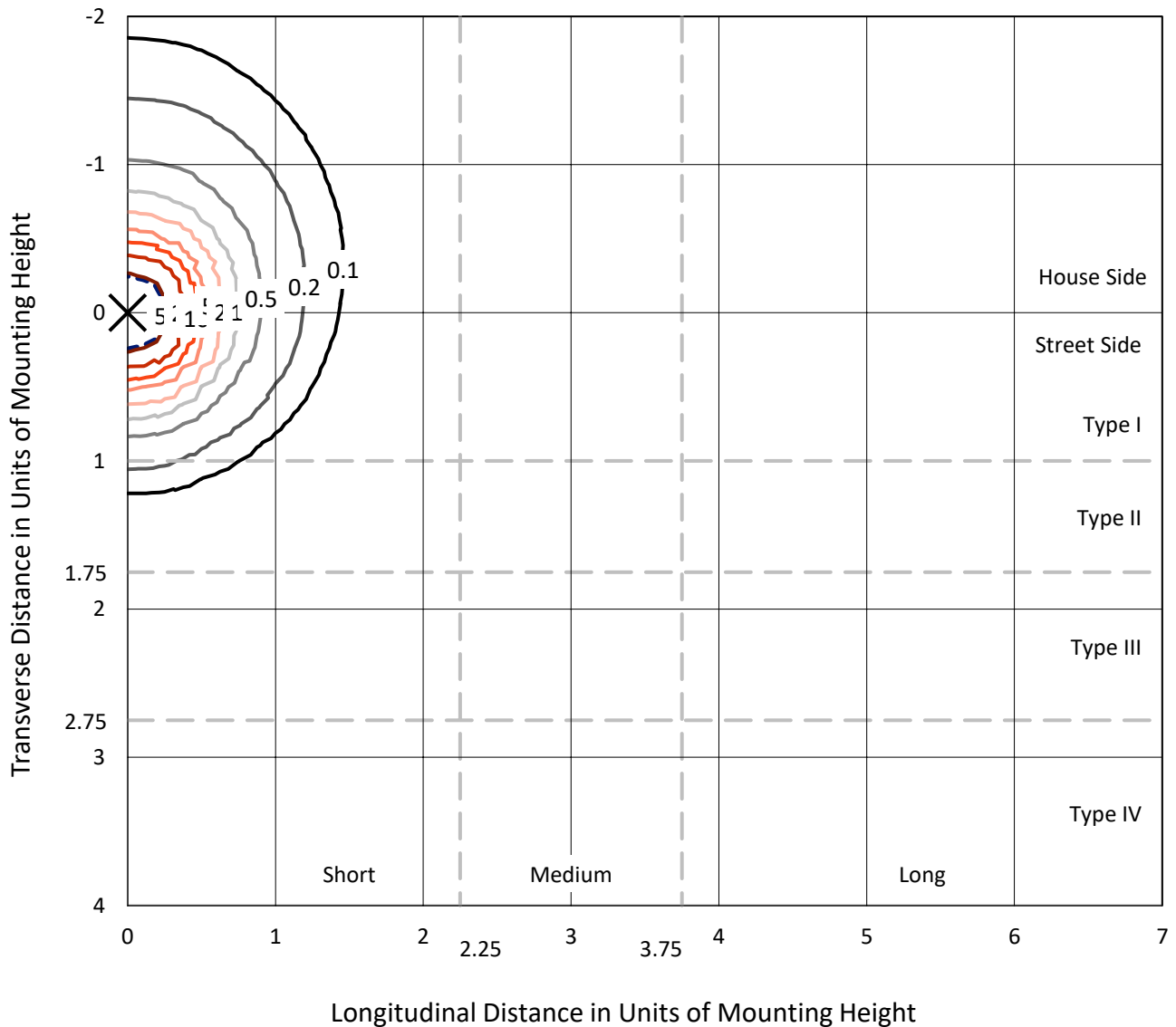
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

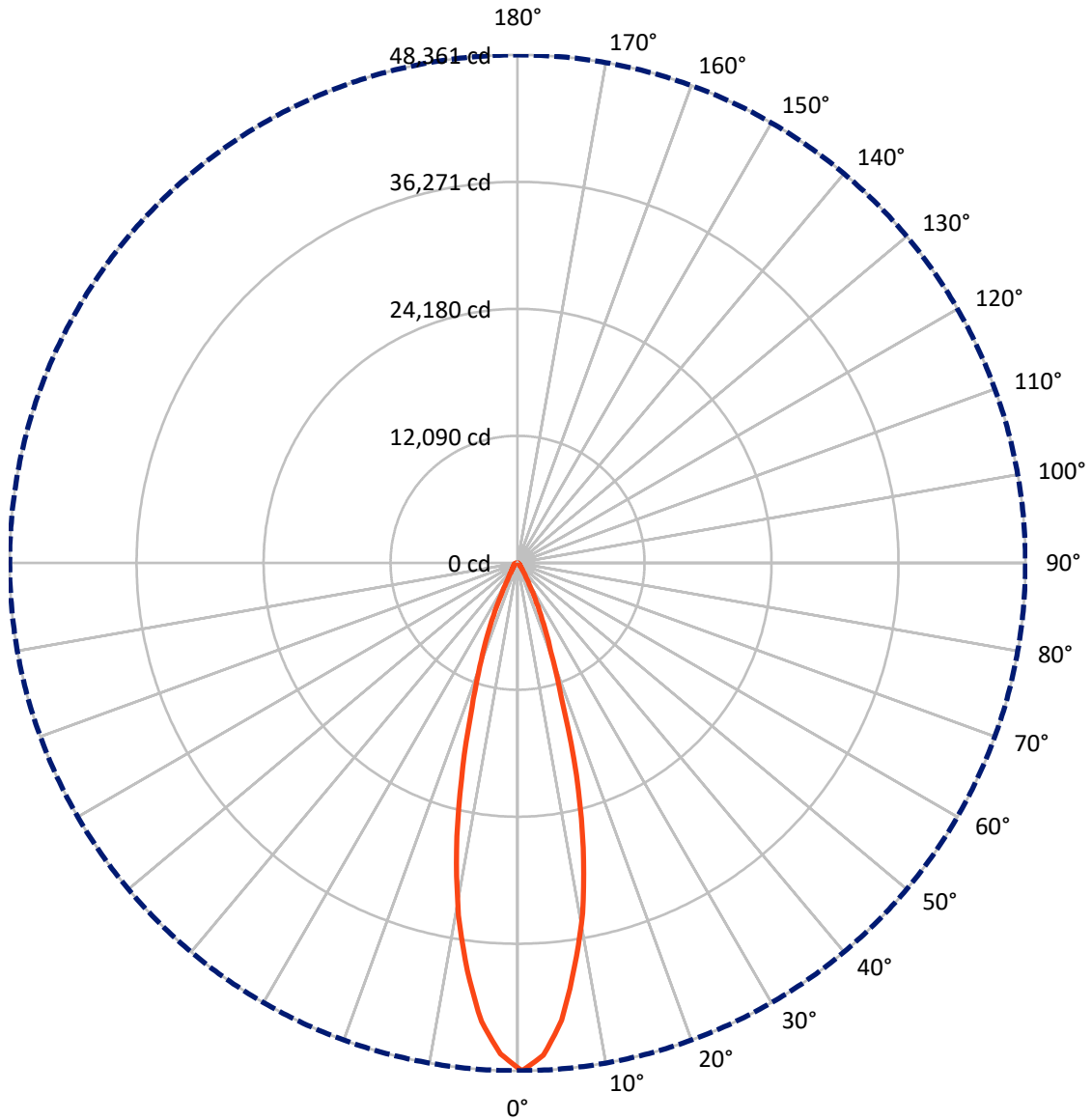
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 120.9 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	7236.7	0.0	7236.7
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6488.2	0.0	6488.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	13724.9	0.0	13724.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3903.1	28.4
10°-20°	5911.3	43.1
20°-30°	2494.6	18.2
30°-40°	650.6	4.7
40°-50°	329.1	2.4
50°-60°	215.1	1.6
60°-70°	128.9	0.9
70°-80°	67.8	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°	13724.9	100.0
0°-180°	13724.9	100.0

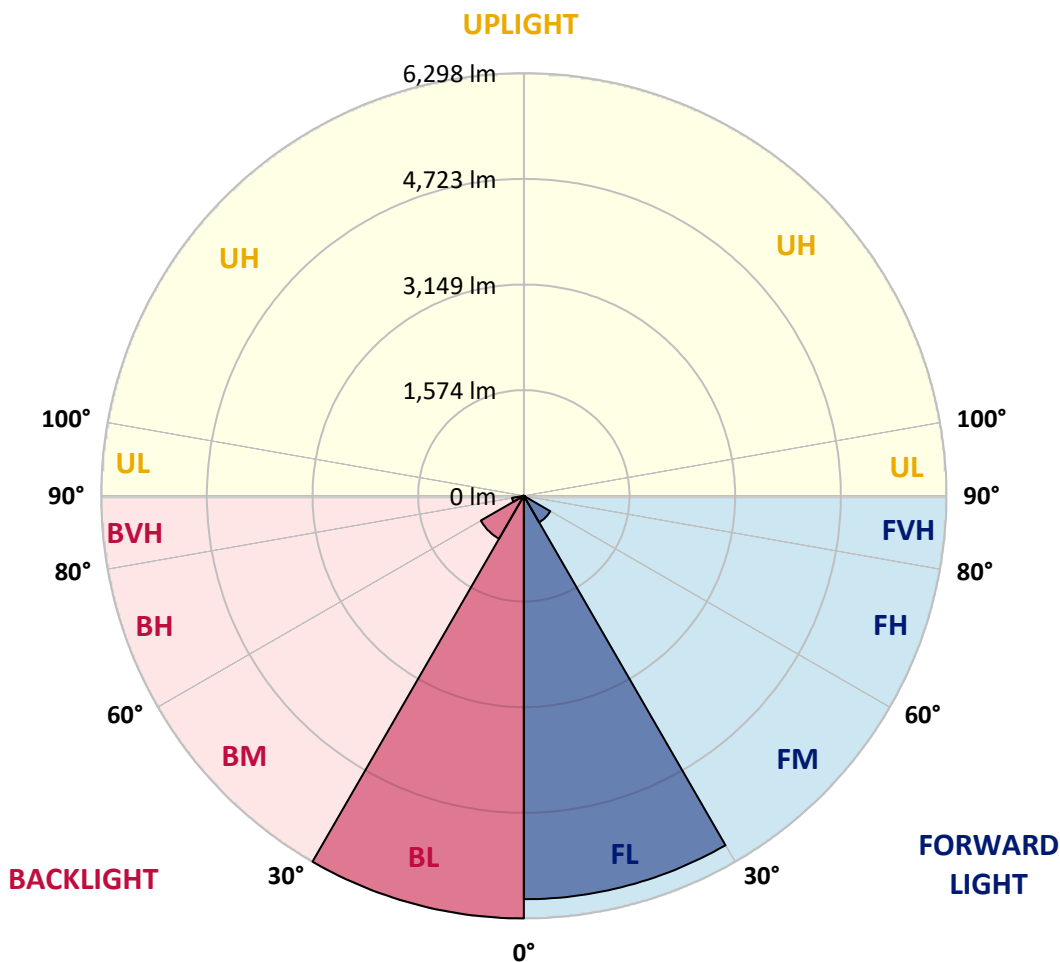


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6011.4	43.8			
FM (30°-60°)	455.3	3.3			
FH (60°-80°)	18.5	0.1			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	6297.6	45.9	B5		
BM (30°-60°)	739.5	5.4	B1/1000		
BH (60°-80°)	178.1	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°	48360.8	48360.8	48360.8	48360.8	48360.8	48360.8	48360.8	48360.8	48360.8	48360.8
2.5°	46952.0	46978.2	46881.1	47090.7	46927.3	47365.1	47147.8	47486.8	47372.8	47562.4
5°	43746.0	43702.9	43675.1	44000.4	43906.3	44376.4	44075.9	43977.2	44282.4	44226.9
7.5°	38904.7	39018.8	38954.0	39038.8	39086.6	39623.0	39792.5	39660.0	39664.6	39741.7
10°	33941.6	33773.6	33534.7	33693.5	34029.5	34263.8	34169.8	34364.0	34320.8	34504.2
12.5°	27834.9	27967.4	27833.3	27691.5	28278.8	28214.1	28377.4	28483.8	28217.1	28810.5
15°	20966.7	21036.1	21199.5	21188.7	21640.3	21731.2	21709.6	21822.2	21614.1	21712.7
17.5°	13469.7	13704.0	14143.2	14886.2	15721.6	15818.7	15794.0	15701.5	15601.3	15490.4
20°	9047.6	9022.9	9181.7	9399.0	11128.4	11586.2	11572.3	11282.5	10863.3	10783.1
22.5°	6338.0	6384.2	6362.6	6578.4	6936.0	8198.3	8042.7	7748.3	7611.1	7521.7
25°	4169.3	4152.3	4260.2	4325.0	4631.7	4785.8	5331.5	5222.0	5010.9	5034.0
27.5°	2541.7	2563.2	2603.3	2658.8	2876.1	2826.8	3138.1	3179.8	3111.9	3039.5
30°	1559.8	1575.2	1607.6	1647.7	1723.2	1669.3	1755.6	1905.1	1880.4	1829.6
32.5°	1058.9	1060.4	1083.6	1099.0	1089.7	1038.9	1066.6	1208.4	1211.5	1206.9
35°	761.4	761.4	783.0	795.3	769.1	727.5	732.1	820.0	858.5	866.2
37.5°	525.6	527.1	564.1	601.1	571.8	561.0	542.5	601.1	662.8	672.0
40°	399.2	397.7	416.2	443.9	447.0	426.9	433.1	470.1	533.3	541.0
42.5°	323.7	325.2	334.5	331.4	332.9	359.1	368.4	385.3	443.9	457.8
45°	272.8	274.4	279.0	263.6	257.4	297.5	309.8	319.1	368.4	385.3
47.5°	225.0	228.1	232.7	215.8	212.7	238.9	260.5	269.7	312.9	331.4
50°	161.8	164.9	181.9	172.6	181.9	188.0	217.3	231.2	260.5	285.1
52.5°	117.1	120.2	124.8	126.4	149.5	152.6	174.2	195.7	209.6	237.4
55°	92.5	95.6	92.5	89.4	109.4	126.4	134.1	157.2	168.0	200.4
57.5°	52.4	55.5	60.1	69.4	72.4	97.1	104.8	124.8	134.1	164.9
60°	9.2	10.8	17.0	41.6	50.9	61.7	78.6	95.6	107.9	129.5
62.5°	1.5	1.5	3.1	9.2	29.3	43.2	57.0	67.8	78.6	98.6
65°	0.0	0.0	1.5	3.1	7.7	24.7	30.8	40.1	53.9	70.9
67.5°	0.0	0.0	1.5	3.1	4.6	9.2	13.9	24.7	30.8	47.8
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	17.0	13.9	6.2	3.1
85°	0.0	0.0	1.5	4.6	9.2	12.3	17.0	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°
48360.8	0°	48360.8	48360.8	48360.8	48360.8	48360.8	48360.8	48360.8	48360.8	48360.8
47203.2	2.5°	47474.5	47721.1	47772.0	47704.2	47802.8	47625.6	47489.9	47138.5	46927.3
44210.0	5°	44495.1	44458.1	44715.5	44800.3	44789.5	44653.9	44464.3	44251.6	44045.1
39592.2	7.5°	39838.8	39886.5	40120.8	40270.3	40194.8	40025.3	39894.3	39734.0	39595.2
34570.5	10°	34886.5	34558.2	34849.5	34849.5	35051.4	34572.0	34616.7	34212.9	34231.4
28799.8	12.5°	28898.4	29017.1	29064.9	29202.0	28966.2	28711.9	28400.6	28338.9	28146.2
21524.7	15°	21834.5	22173.6	21882.3	22380.1	22139.7	21874.6	21826.8	21349.0	21500.0
15612.1	17.5°	15535.1	15909.6	16026.8	16311.9	16093.0	15935.8	15737.0	15592.1	15581.3
10929.6	20°	11015.9	11392.0	11478.3	11820.5	11795.8	11746.5	11578.5	11395.1	11196.2
7440.0	22.5°	7552.5	7859.2	8145.9	8606.8	8599.1	8454.2	8437.2	8178.3	8182.9
5026.3	25°	5078.7	5302.2	5370.0	5841.6	5894.0	5878.6	5790.8	5550.3	5641.3
3070.3	27.5°	3073.4	3269.2	3498.8	3665.3	3822.5	3797.8	3710.0	3575.9	3517.3
1845.0	30°	1894.3	1982.2	2066.9	2267.3	2361.3	2410.6	2369.0	2244.2	2253.4
1214.6	32.5°	1240.8	1314.8	1376.4	1502.8	1552.1	1643.1	1626.1	1599.9	1569.1
873.9	35°	904.8	958.7	1000.3	1058.9	1122.1	1199.2	1211.5	1200.7	1188.4
675.1	37.5°	690.5	746.0	793.8	818.4	867.8	927.9	961.8	960.2	951.0
550.3	40°	561.0	602.7	645.8	678.2	712.1	756.8	798.4	803.0	803.0
462.4	42.5°	468.6	504.0	547.2	581.1	605.7	647.4	690.5	693.6	690.5
391.5	45°	400.7	431.6	473.2	513.3	533.3	564.1	605.7	615.0	608.8
336.0	47.5°	348.3	376.1	411.5	454.7	476.3	504.0	542.5	553.3	551.8
289.8	50°	299.0	331.4	366.8	402.3	430.0	456.2	493.2	505.6	500.9
246.6	52.5°	263.6	292.9	323.7	362.2	394.6	417.7	447.0	468.6	462.4
208.1	55°	220.4	255.9	288.2	320.6	360.7	385.3	413.1	439.3	433.1
175.7	57.5°	191.1	220.4	257.4	286.7	326.8	356.0	383.8	411.5	410.0
143.3	60°	160.3	191.1	226.6	257.4	294.4	326.8	354.5	385.3	388.4
107.9	62.5°	126.4	163.4	194.2	229.7	266.7	302.1	326.8	357.6	362.2
81.7	65°	95.6	134.1	168.0	201.9	238.9	277.4	299.0	325.2	329.8
60.1	67.5°	70.9	103.3	143.3	174.2	212.7	249.7	269.7	291.3	299.0
37.0	70°	53.9	78.6	120.2	149.5	189.6	218.9	240.4	258.9	265.1
24.7	72.5°	33.9	61.7	97.1	127.9	163.4	189.6	205.0	215.8	225.0
13.9	75°	23.1	47.8	78.6	109.4	135.6	155.7	169.5	178.8	186.5
6.2	77.5°	13.9	37.0	64.7	90.9	107.9	123.3	137.2	143.3	148.0
4.6	80°	7.7	27.7	53.9	74.0	84.8	95.6	106.4	114.1	117.1
3.1	82.5°	4.6	21.6	43.2	57.0	61.7	72.4	83.2	87.9	87.9
1.5	85°	3.1	15.4	29.3	41.6	44.7	52.4	55.5	58.6	61.7
1.5	87.5°	3.1	9.2	18.5	23.1	24.7	27.7	29.3	32.4	35.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
48360.8
46771.7
43813.9
39125.1
34051.1
27970.5
21349.0
15294.6
11109.9
8093.5
5497.9
3466.5
2213.4
1558.3
1183.7
946.4
793.8
687.4
608.8
548.7
497.8
460.9
436.2
411.5
390.0
365.3
334.5
302.1
268.2
223.5
185.0
146.4
114.1
86.3
60.1
33.9
0.0

(END OF REPORT)