

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: P637347

Luminaire Tested: **IFLD-S-SA2B-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637347
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10861.4 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

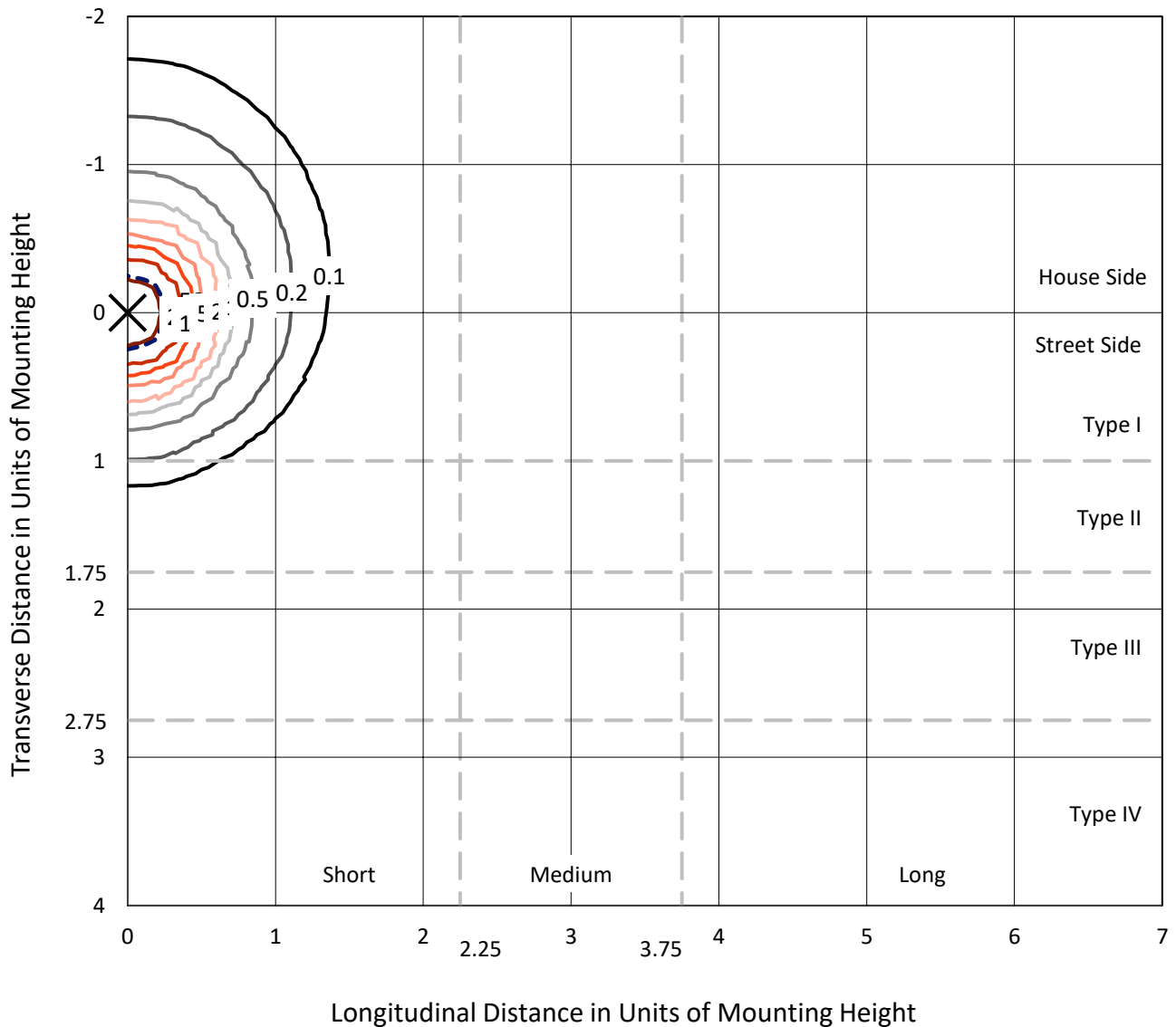
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

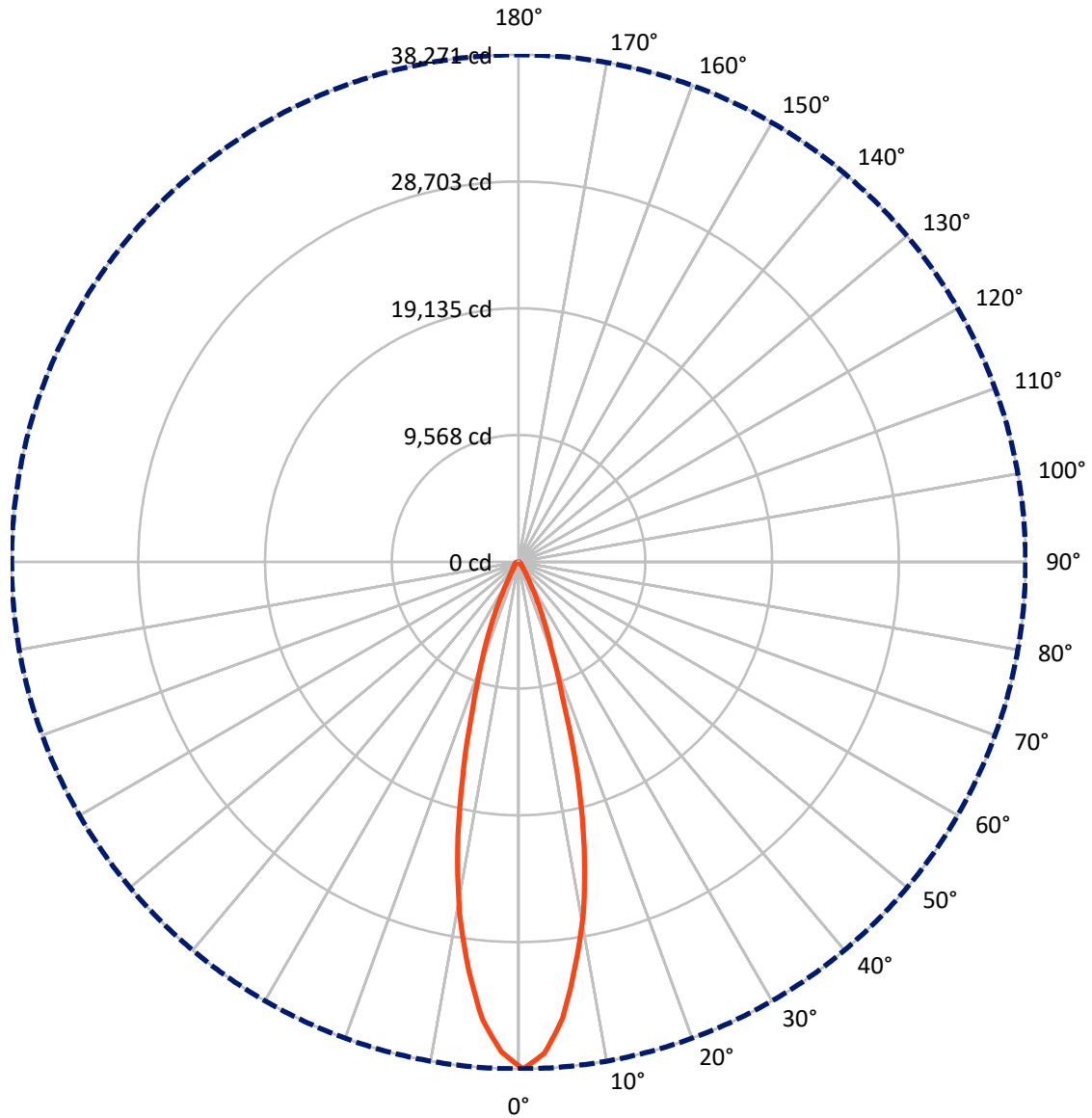
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 95.7 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	5726.9	0.0	5726.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	5134.5	0.0	5134.5
	% Fixture	47.3	0.0	47.3
Total	Lumens	10861.4	0.0	10861.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3088.8	28.4
10°-20°	4678.0	43.1
20°-30°	1974.1	18.2
30°-40°	514.9	4.7
40°-50°	260.4	2.4
50°-60°	170.2	1.6
60°-70°	102.0	0.9
70°-80°	53.6	0.5
80°-90°	19.4	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°	10861.4	100.0
0°-180°	10861.4	100.0

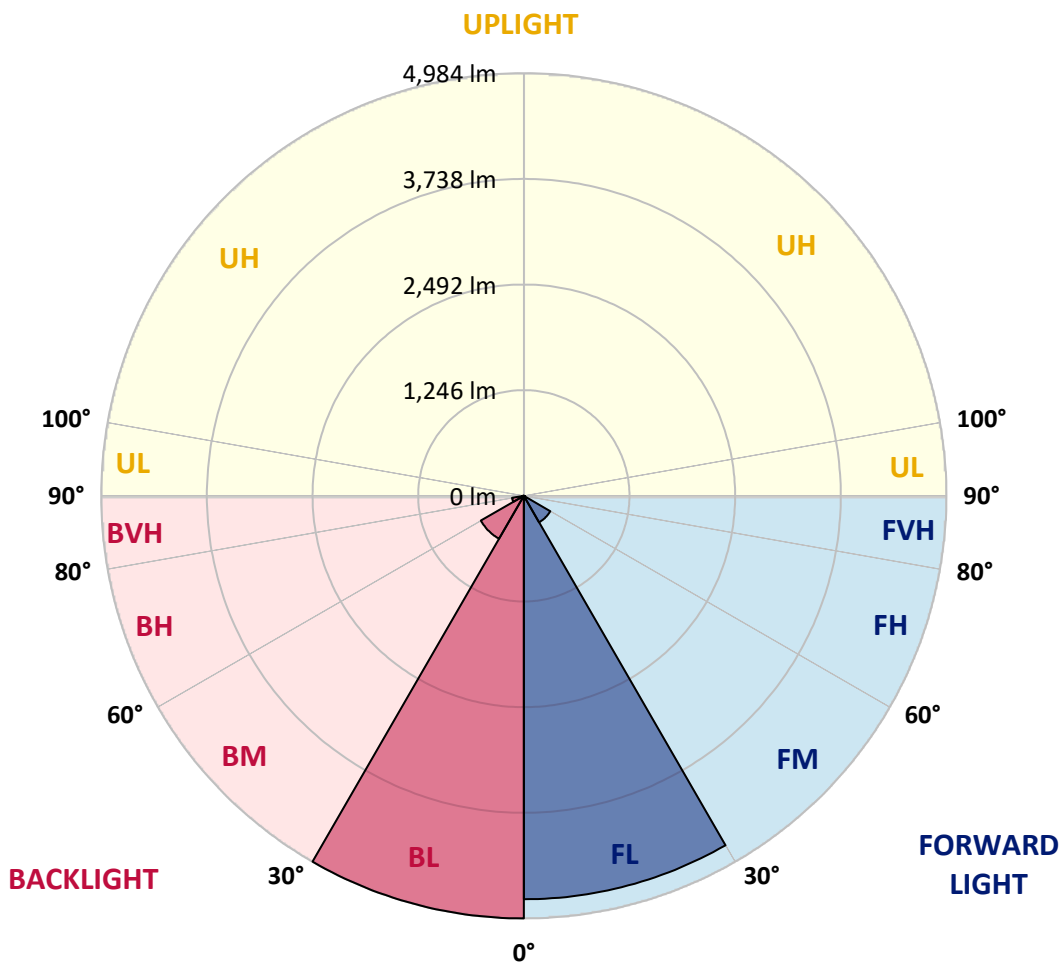


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4757.2	43.8			
FM (30°-60°)	360.3	3.3			
FH (60°-80°)	14.7	0.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	4983.7	45.9	B4/5000		
BM (30°-60°)	585.2	5.4	B1/1000		
BH (60°-80°)	140.9	1.3	B1/500		G0/660
BVH (80°-90°)	17.0	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°	38270.8	38270.8	38270.8	38270.8	38270.8	38270.8	38270.8	38270.8	38270.8	38270.8
2.5°	37155.9	37176.7	37099.8	37265.7	37136.4	37482.8	37310.9	37579.2	37488.9	37639.0
5°	34618.9	34584.7	34562.8	34820.1	34745.7	35117.7	34879.9	34801.8	35043.3	34999.4
7.5°	30787.6	30877.9	30826.7	30893.8	30931.6	31356.0	31490.2	31385.3	31389.0	31450.0
10°	26860.1	26727.1	26538.0	26663.7	26929.6	27115.0	27040.6	27194.3	27160.1	27305.3
12.5°	22027.4	22132.3	22026.2	21914.0	22378.7	22327.5	22456.8	22540.9	22329.9	22799.5
15°	16592.2	16647.1	16776.4	16767.9	17125.3	17197.2	17180.1	17269.2	17104.5	17182.6
17.5°	10659.4	10844.8	11192.4	11780.3	12441.4	12518.3	12498.8	12425.6	12346.3	12258.5
20°	7159.9	7140.4	7266.0	7438.0	8806.6	9168.8	9157.9	8928.6	8596.8	8533.4
22.5°	5015.6	5052.2	5035.1	5205.9	5488.9	6487.8	6364.6	6131.7	6023.1	5952.4
25°	3299.4	3286.0	3371.4	3422.6	3665.3	3787.3	4219.1	4132.5	3965.4	3983.7
27.5°	2011.4	2028.4	2060.2	2104.1	2276.0	2237.0	2483.4	2516.3	2462.7	2405.3
30°	1234.4	1246.6	1272.2	1303.9	1363.7	1321.0	1389.3	1507.6	1488.1	1447.8
32.5°	838.0	839.2	857.5	869.7	862.4	822.1	844.1	956.3	958.7	955.1
35°	602.6	602.6	619.6	629.4	608.7	575.7	579.4	648.9	679.4	685.5
37.5°	415.9	417.2	446.4	475.7	452.5	444.0	429.4	475.7	524.5	531.8
40°	315.9	314.7	329.3	351.3	353.7	337.9	342.7	372.0	422.0	428.1
42.5°	256.1	257.4	264.7	262.2	263.5	284.2	291.5	304.9	351.3	362.3
45°	215.9	217.1	220.8	208.6	203.7	235.4	245.2	252.5	291.5	304.9
47.5°	178.1	180.5	184.2	170.8	168.3	189.1	206.1	213.5	247.6	262.2
50°	128.1	130.5	143.9	136.6	143.9	148.8	172.0	183.0	206.1	225.7
52.5°	92.7	95.1	98.8	100.0	118.3	120.8	137.8	154.9	165.9	187.8
55°	73.2	75.6	73.2	70.7	86.6	100.0	106.1	124.4	133.0	158.6
57.5°	41.5	43.9	47.6	54.9	57.3	76.8	82.9	98.8	106.1	130.5
60°	7.3	8.5	13.4	32.9	40.3	48.8	62.2	75.6	85.4	102.5
62.5°	1.2	1.2	2.4	7.3	23.2	34.2	45.1	53.7	62.2	78.1
65°	0.0	0.0	1.2	2.4	6.1	19.5	24.4	31.7	42.7	56.1
67.5°	0.0	0.0	1.2	2.4	3.7	7.3	11.0	19.5	24.4	37.8
70°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	8.5	14.6	23.2
72.5°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	7.3	7.3	14.6
75°	0.0	0.0	1.2	2.4	3.7	6.1	7.3	7.3	6.1	6.1
77.5°	0.0	0.0	1.2	2.4	4.9	7.3	8.5	7.3	4.9	4.9
80°	0.0	0.0	2.4	3.7	6.1	8.5	11.0	8.5	4.9	2.4
82.5°	0.0	0.0	2.4	4.9	6.1	9.8	13.4	11.0	4.9	2.4
85°	0.0	0.0	1.2	3.7	7.3	9.8	13.4	9.8	4.9	1.2
87.5°	0.0	0.0	1.2	1.2	2.4	3.7	7.3	6.1	2.4	1.2
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°
38270.8	0°	38270.8	38270.8	38270.8	38270.8	38270.8	38270.8	38270.8	38270.8	38270.8
37354.8	2.5°	37569.4	37764.6	37804.9	37751.2	37829.2	37689.0	37581.6	37303.5	37136.4
34986.0	5°	35211.7	35182.4	35386.1	35453.2	35444.6	35337.3	35187.3	35018.9	34855.5
31331.7	7.5°	31526.8	31564.6	31750.0	31868.3	31808.6	31674.4	31570.7	31443.9	31334.1
27357.7	10°	27607.8	27348.0	27578.5	27578.5	27738.3	27358.9	27394.3	27074.7	27089.4
22791.0	12.5°	22869.0	22963.0	23000.8	23109.3	22922.7	22721.5	22475.1	22426.3	22273.8
17033.8	15°	17278.9	17547.3	17316.8	17710.7	17520.5	17310.7	17272.8	16894.7	17014.3
12354.8	17.5°	12293.8	12590.2	12682.9	12908.6	12735.4	12611.0	12453.6	12339.0	12330.4
8649.2	20°	8717.5	9015.2	9083.5	9354.2	9334.7	9295.7	9162.7	9017.6	8860.2
5887.7	22.5°	5976.8	6219.5	6446.4	6811.1	6805.0	6690.3	6676.9	6472.0	6475.6
3977.6	25°	4019.1	4195.9	4249.6	4622.8	4664.3	4652.1	4582.6	4392.3	4464.3
2429.7	27.5°	2432.2	2587.1	2768.8	2900.6	3025.0	3005.5	2935.9	2829.8	2783.5
1460.0	30°	1499.1	1568.6	1635.7	1794.2	1868.7	1907.7	1874.8	1776.0	1783.3
961.2	32.5°	981.9	1040.4	1089.2	1189.3	1228.3	1300.3	1286.8	1266.1	1241.7
691.6	35°	716.0	758.7	791.6	838.0	888.0	949.0	958.7	950.2	940.4
534.2	37.5°	546.4	590.4	628.2	647.7	686.7	734.3	761.1	759.9	752.6
435.4	40°	444.0	476.9	511.1	536.7	563.5	598.9	631.8	635.5	635.5
365.9	42.5°	370.8	398.9	433.0	459.8	479.4	512.3	546.4	548.9	546.4
309.8	45°	317.1	341.5	374.5	406.2	422.0	446.4	479.4	486.7	481.8
265.9	47.5°	275.7	297.6	325.7	359.8	376.9	398.9	429.4	437.9	436.7
229.3	50°	236.6	262.2	290.3	318.4	340.3	361.0	390.3	400.1	396.4
195.2	52.5°	208.6	231.8	256.1	286.6	312.3	330.6	353.7	370.8	365.9
164.7	55°	174.4	202.5	228.1	253.7	285.4	304.9	326.9	347.6	342.7
139.1	57.5°	151.2	174.4	203.7	226.9	258.6	281.8	303.7	325.7	324.5
113.4	60°	126.9	151.2	179.3	203.7	233.0	258.6	280.5	304.9	307.4
85.4	62.5°	100.0	129.3	153.7	181.7	211.0	239.1	258.6	283.0	286.6
64.6	65°	75.6	106.1	133.0	159.8	189.1	219.6	236.6	257.4	261.0
47.6	67.5°	56.1	81.7	113.4	137.8	168.3	197.6	213.5	230.5	236.6
29.3	70°	42.7	62.2	95.1	118.3	150.0	173.2	190.3	204.9	209.8
19.5	72.5°	26.8	48.8	76.8	101.2	129.3	150.0	162.2	170.8	178.1
11.0	75°	18.3	37.8	62.2	86.6	107.3	123.2	134.2	141.5	147.6
4.9	77.5°	11.0	29.3	51.2	72.0	85.4	97.6	108.6	113.4	117.1
3.7	80°	6.1	22.0	42.7	58.5	67.1	75.6	84.2	90.3	92.7
2.4	82.5°	3.7	17.1	34.2	45.1	48.8	57.3	65.9	69.5	69.5
1.2	85°	2.4	12.2	23.2	32.9	35.4	41.5	43.9	46.4	48.8
1.2	87.5°	2.4	7.3	14.6	18.3	19.5	22.0	23.2	25.6	28.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
38270.8
37013.2
34672.5
30962.1
26946.7
22134.8
16894.7
12103.6
8791.9
6404.9
4350.8
2743.2
1751.6
1233.2
936.8
748.9
628.2
544.0
481.8
434.2
394.0
364.7
345.2
325.7
308.6
289.1
264.7
239.1
212.2
176.9
146.4
115.9
90.3
68.3
47.6
26.8
0.0

(END OF REPORT)