

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: P637318

Luminaire Tested: **IFLD-S-SA2B-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637318
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10027.7 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

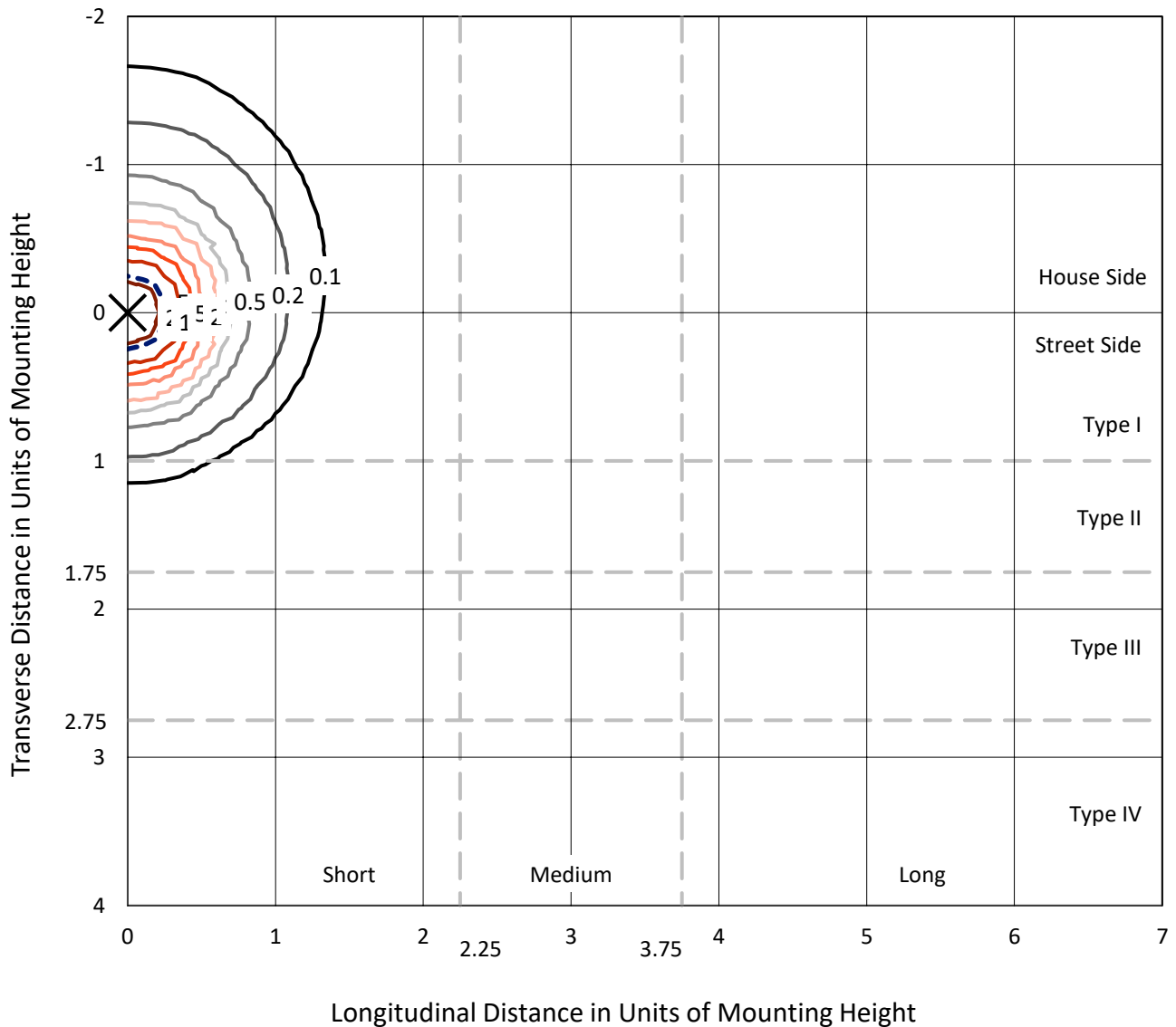
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

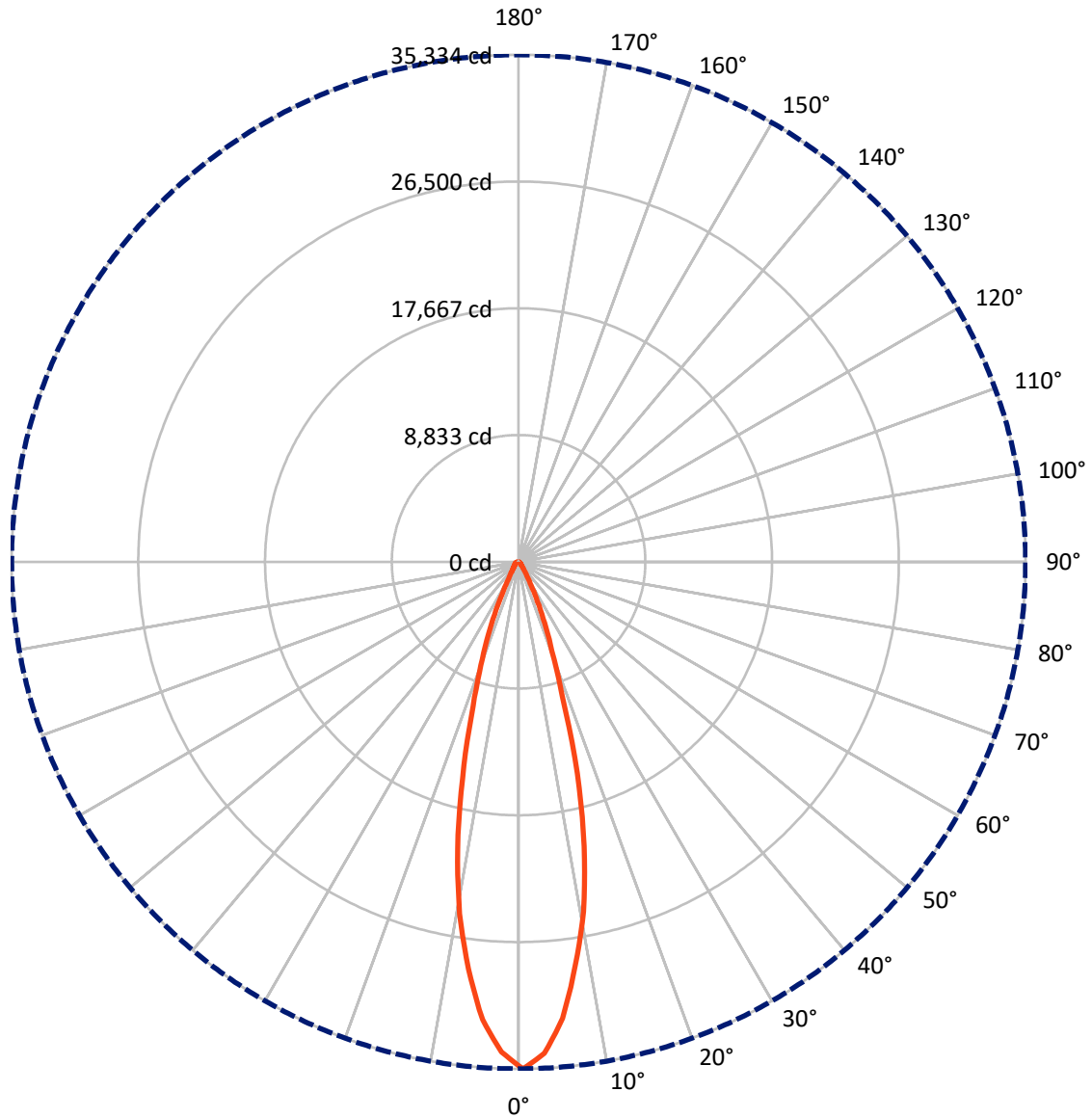
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 88.3 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	5287.3	0.0	5287.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	4740.4	0.0	4740.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	10027.7	0.0	10027.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2851.7	28.4
10°-20°	4318.9	43.1
20°-30°	1822.6	18.2
30°-40°	475.3	4.7
40°-50°	240.4	2.4
50°-60°	157.1	1.6
60°-70°	94.1	0.9
70°-80°	49.5	0.5
80°-90°	17.9	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°	10027.7	100.0
0°-180°	10027.7	100.0

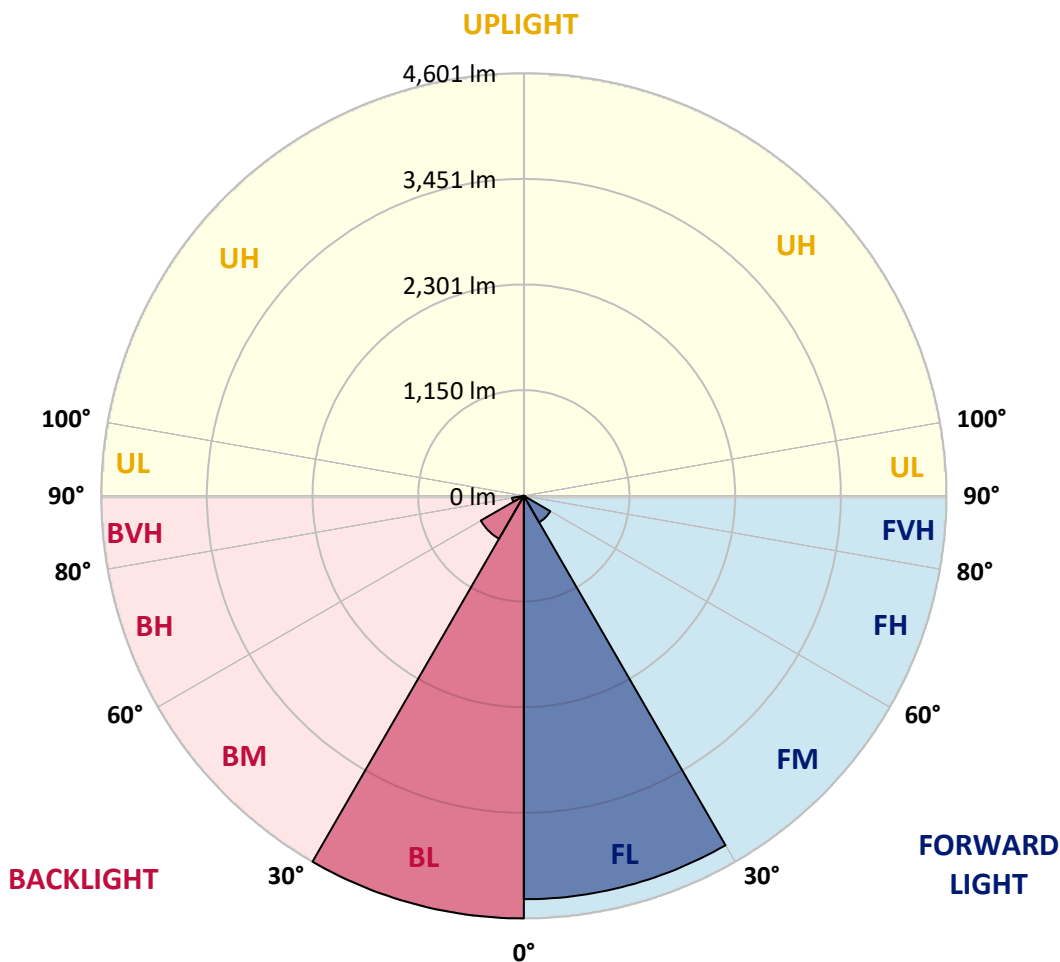


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4392.1	43.8			
FM (30°-60°)	332.6	3.3			
FH (60°-80°)	13.6	0.1			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	4601.2	45.9	B4/5000		
BM (30°-60°)	540.3	5.4	B1/1000		
BH (60°-80°)	130.1	1.3	B1/500		G0/660
BVH (80°-90°)	15.7	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°	35333.5	35333.5	35333.5	35333.5	35333.5	35333.5	35333.5	35333.5	35333.5	35333.5
2.5°	34304.2	34323.3	34252.4	34405.5	34286.2	34606.0	34447.2	34694.9	34611.6	34750.1
5°	31961.8	31930.3	31910.0	32147.6	32078.9	32422.4	32202.8	32130.7	32353.7	32313.2
7.5°	28424.6	28508.0	28460.7	28522.6	28557.5	28949.4	29073.3	28976.5	28979.8	29036.1
10°	24798.5	24675.8	24501.2	24617.2	24862.7	25033.9	24965.2	25107.1	25075.5	25209.5
12.5°	20336.8	20433.6	20335.7	20232.1	20661.1	20613.8	20733.2	20810.9	20616.1	21049.6
15°	15318.7	15369.4	15488.8	15480.9	15810.9	15877.3	15861.5	15943.7	15791.7	15863.8
17.5°	9841.3	10012.4	10333.4	10876.2	11486.5	11557.5	11539.5	11471.9	11398.7	11317.6
20°	6610.4	6592.4	6708.4	6867.1	8130.7	8465.1	8455.0	8243.3	7937.0	7878.4
22.5°	4630.6	4664.4	4648.7	4806.3	5067.6	5989.9	5876.1	5661.1	5560.8	5495.5
25°	3046.2	3033.8	3112.6	3159.9	3384.0	3496.6	3895.3	3815.3	3661.0	3677.9
27.5°	1857.0	1872.8	1902.0	1942.6	2101.4	2065.3	2292.8	2323.2	2273.7	2220.7
30°	1139.6	1150.9	1174.6	1203.8	1259.0	1219.6	1282.7	1391.9	1373.9	1336.7
32.5°	773.7	774.8	791.7	802.9	796.2	759.0	779.3	882.9	885.1	881.8
35°	556.3	556.3	572.1	581.1	561.9	531.5	534.9	599.1	627.3	632.9
37.5°	384.0	385.1	412.2	439.2	417.8	409.9	396.4	439.2	484.2	491.0
40°	291.7	290.5	304.1	324.3	326.6	311.9	316.4	343.5	389.6	395.3
42.5°	236.5	237.6	244.4	242.1	243.2	262.4	269.1	281.5	324.3	334.5
45°	199.3	200.5	203.8	192.6	188.1	217.3	226.4	233.1	269.1	281.5
47.5°	164.4	166.7	170.0	157.7	155.4	174.6	190.3	197.1	228.6	242.1
50°	118.2	120.5	132.9	126.1	132.9	137.4	158.8	168.9	190.3	208.3
52.5°	85.6	87.8	91.2	92.3	109.2	111.5	127.3	143.0	153.2	173.4
55°	67.6	69.8	67.6	65.3	80.0	92.3	98.0	114.9	122.7	146.4
57.5°	38.3	40.5	43.9	50.7	52.9	70.9	76.6	91.2	98.0	120.5
60°	6.8	7.9	12.4	30.4	37.2	45.0	57.4	69.8	78.8	94.6
62.5°	1.1	1.1	2.3	6.8	21.4	31.5	41.7	49.5	57.4	72.1
65°	0.0	0.0	1.1	2.3	5.6	18.0	22.5	29.3	39.4	51.8
67.5°	0.0	0.0	1.1	2.3	3.4	6.8	10.1	18.0	22.5	34.9
70°	0.0	0.0	1.1	2.3	3.4	4.5	5.6	7.9	13.5	21.4
72.5°	0.0	0.0	1.1	2.3	3.4	4.5	5.6	6.8	6.8	13.5
75°	0.0	0.0	1.1	2.3	3.4	5.6	6.8	6.8	5.6	5.6
77.5°	0.0	0.0	1.1	2.3	4.5	6.8	7.9	6.8	4.5	4.5
80°	0.0	0.0	2.3	3.4	5.6	7.9	10.1	7.9	4.5	2.3
82.5°	0.0	0.0	2.3	4.5	5.6	9.0	12.4	10.1	4.5	2.3
85°	0.0	0.0	1.1	3.4	6.8	9.0	12.4	9.0	4.5	1.1
87.5°	0.0	0.0	1.1	1.1	2.3	3.4	6.8	5.6	2.3	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°
35333.5	0°	35333.5	35333.5	35333.5	35333.5	35333.5	35333.5	35333.5	35333.5	35333.5
34487.7	2.5°	34685.9	34866.1	34903.3	34853.7	34925.8	34796.3	34697.2	34440.4	34286.2
32300.8	5°	32509.1	32482.1	32670.2	32732.1	32724.2	32625.1	32486.6	32331.2	32180.3
28926.9	7.5°	29107.1	29142.0	29313.2	29422.4	29367.2	29243.3	29147.6	29030.5	28929.2
25258.0	10°	25488.8	25249.0	25461.8	25461.8	25609.3	25259.1	25291.8	24996.7	25010.2
21041.7	12.5°	21113.8	21200.5	21235.4	21335.7	21163.4	20977.6	20750.1	20705.0	20564.3
15726.4	15°	15952.8	16200.5	15987.7	16351.4	16175.7	15982.0	15947.1	15598.0	15708.4
11406.6	17.5°	11350.3	11623.9	11709.5	11917.8	11757.9	11643.1	11497.8	11391.9	11384.0
7985.4	20°	8048.5	8323.2	8386.3	8636.3	8618.3	8582.2	8459.5	8325.5	8180.2
5435.8	22.5°	5518.0	5742.1	5951.6	6288.3	6282.7	6176.8	6164.4	5975.2	5978.6
3672.3	25°	3710.6	3873.9	3923.4	4268.0	4306.3	4295.1	4230.9	4055.2	4121.6
2243.3	27.5°	2245.5	2388.5	2556.3	2677.9	2792.8	2774.8	2710.6	2612.6	2569.8
1348.0	30°	1384.0	1448.2	1510.1	1656.5	1725.2	1761.3	1730.9	1639.6	1646.4
887.4	32.5°	906.5	960.6	1005.6	1098.0	1134.0	1200.5	1188.1	1168.9	1146.4
638.5	35°	661.0	700.5	730.9	773.7	819.8	876.1	885.1	877.3	868.2
493.2	37.5°	504.5	545.0	580.0	598.0	634.0	677.9	702.7	701.6	694.8
402.0	40°	409.9	440.3	471.8	495.5	520.3	552.9	583.3	586.7	586.7
337.8	42.5°	342.3	368.2	399.8	424.6	442.6	473.0	504.5	506.8	504.5
286.0	45°	292.8	315.3	345.7	375.0	389.6	412.2	442.6	449.3	444.8
245.5	47.5°	254.5	274.8	300.7	332.2	348.0	368.2	396.4	404.3	403.2
211.7	50°	218.5	242.1	268.0	293.9	314.2	333.3	360.4	369.4	366.0
180.2	52.5°	192.6	214.0	236.5	264.6	288.3	305.2	326.6	342.3	337.8
152.0	55°	161.0	186.9	210.6	234.2	263.5	281.5	301.8	320.9	316.4
128.4	57.5°	139.6	161.0	188.1	209.5	238.7	260.1	280.4	300.7	299.6
104.7	60°	117.1	139.6	165.5	188.1	215.1	238.7	259.0	281.5	283.8
78.8	62.5°	92.3	119.4	141.9	167.8	194.8	220.7	238.7	261.3	264.6
59.7	65°	69.8	98.0	122.7	147.5	174.6	202.7	218.5	237.6	241.0
43.9	67.5°	51.8	75.5	104.7	127.3	155.4	182.4	197.1	212.8	218.5
27.0	70°	39.4	57.4	87.8	109.2	138.5	159.9	175.7	189.2	193.7
18.0	72.5°	24.8	45.0	70.9	93.5	119.4	138.5	149.8	157.7	164.4
10.1	75°	16.9	34.9	57.4	80.0	99.1	113.7	123.9	130.6	136.3
4.5	77.5°	10.1	27.0	47.3	66.4	78.8	90.1	100.2	104.7	108.1
3.4	80°	5.6	20.3	39.4	54.1	61.9	69.8	77.7	83.3	85.6
2.3	82.5°	3.4	15.8	31.5	41.7	45.0	52.9	60.8	64.2	64.2
1.1	85°	2.3	11.3	21.4	30.4	32.7	38.3	40.5	42.8	45.0
1.1	87.5°	2.3	6.8	13.5	16.9	18.0	20.3	21.4	23.6	25.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
35333.5
34172.4
32011.4
28585.7
24878.5
20435.9
15598.0
11174.6
8117.1
5913.3
4016.9
2532.7
1617.1
1138.5
864.9
691.4
580.0
502.3
444.8
400.9
363.7
336.7
318.7
300.7
284.9
266.9
244.4
220.7
195.9
163.3
135.1
107.0
83.3
63.1
43.9
24.8
0.0

(END OF REPORT)