

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: P637346

Luminaire Tested: **IFLD-S-SA2A-735-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637346
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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: 8782.3 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

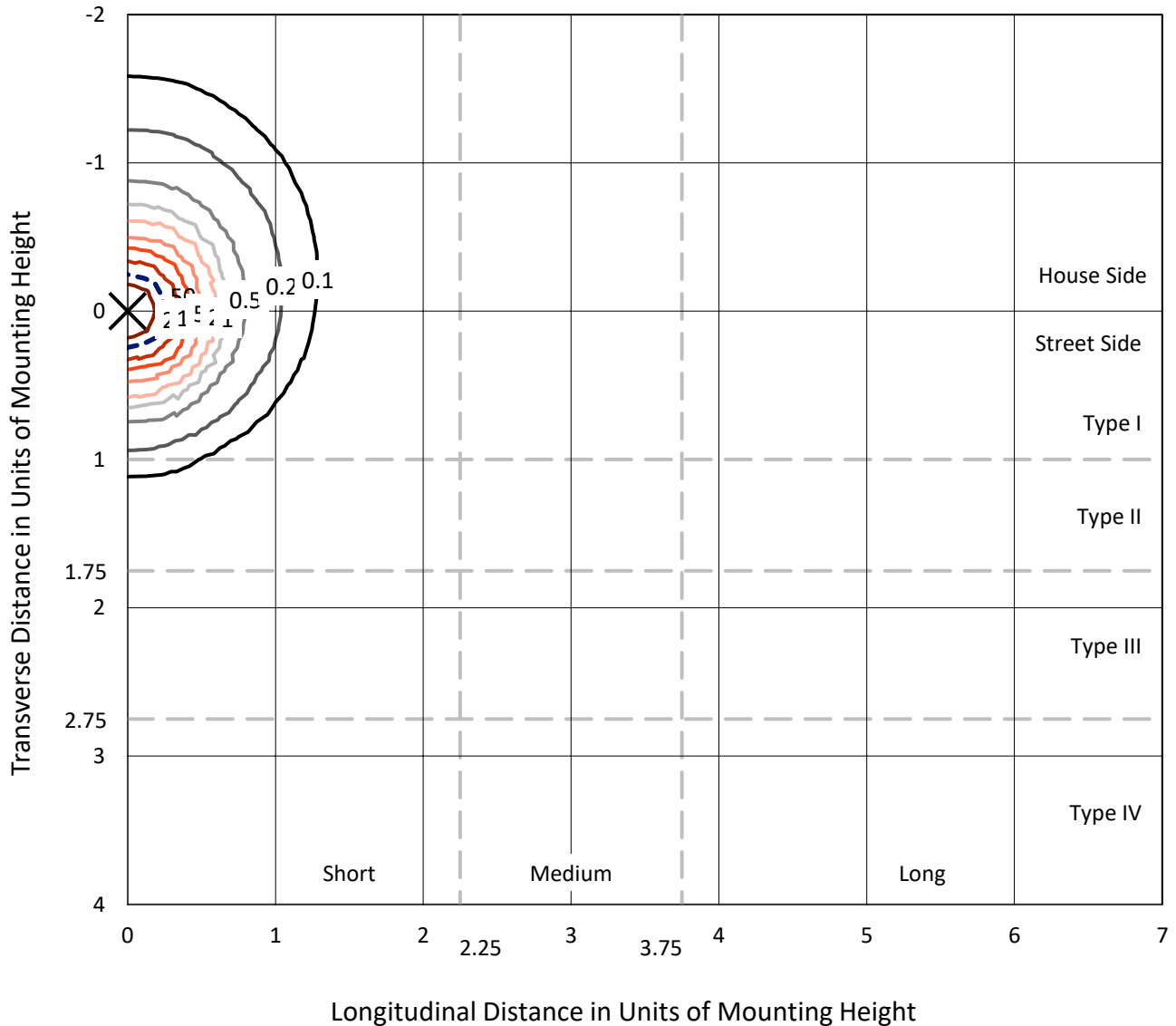
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

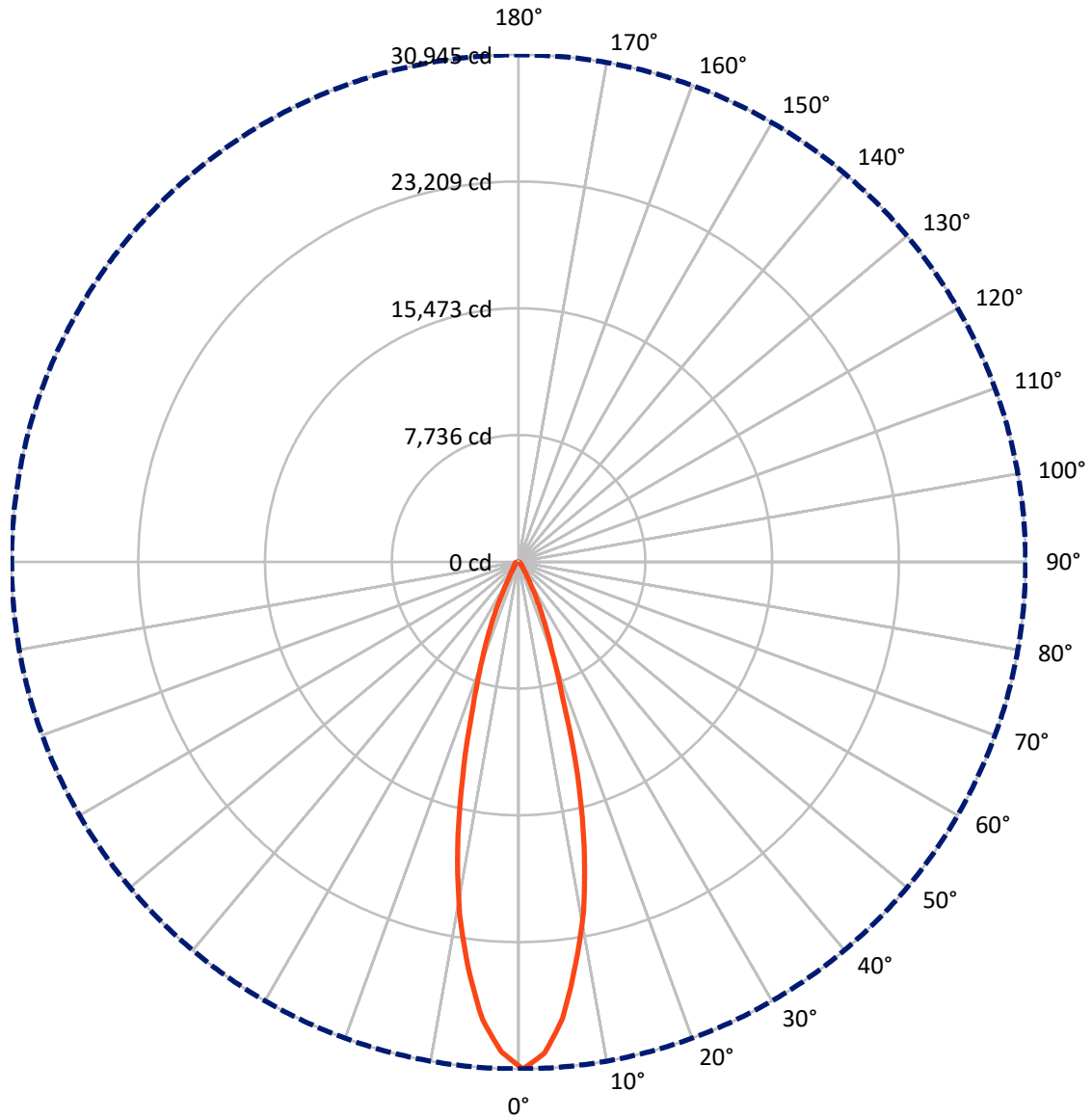
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 77.4 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	4630.6	0.0	4630.6
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	4151.7	0.0	4151.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	8782.3	0.0	8782.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2497.5	28.4
10°-20°	3782.5	43.1
20°-30°	1596.2	18.2
30°-40°	416.3	4.7
40°-50°	210.6	2.4
50°-60°	137.6	1.6
60°-70°	82.5	0.9
70°-80°	43.4	0.5
80°-90°	15.7	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°	8782.3	100.0
0°-180°	8782.3	100.0

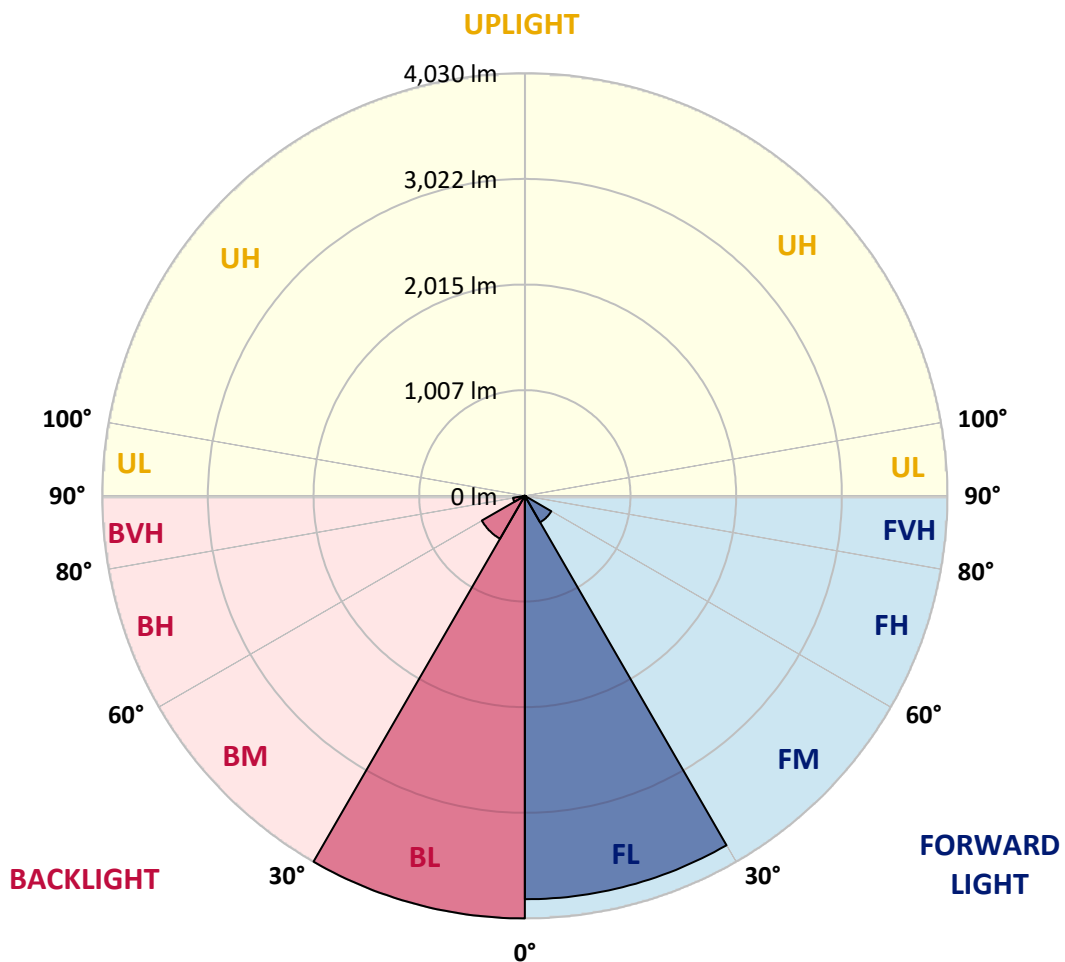


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3846.6	43.8			
FM (30°-60°)	291.3	3.3			
FH (60°-80°)	11.9	0.1			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	4029.7	45.9	B4/5000		
BM (30°-60°)	473.2	5.4	B1/1000		
BH (60°-80°)	114.0	1.3	B1/500		G0/660
BVH (80°-90°)	13.8	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°	30945.1	30945.1	30945.1	30945.1	30945.1	30945.1	30945.1	30945.1	30945.1	30945.1
2.5°	30043.7	30060.4	29998.3	30132.4	30027.9	30308.0	30168.9	30385.9	30312.9	30434.2
5°	27992.2	27964.6	27946.9	28155.0	28094.8	28395.6	28203.3	28140.2	28335.5	28300.0
7.5°	24894.4	24967.4	24925.9	24980.2	25010.8	25354.0	25462.5	25377.7	25380.6	25429.9
10°	21718.6	21611.1	21458.2	21559.8	21774.8	21924.7	21864.6	21988.8	21961.2	22078.6
12.5°	17811.0	17895.8	17810.0	17719.3	18095.1	18053.6	18158.2	18226.2	18055.6	18435.3
15°	13416.2	13460.6	13565.1	13558.2	13847.2	13905.4	13891.6	13963.6	13830.4	13893.6
17.5°	8619.0	8768.9	9050.0	9525.4	10059.9	10122.1	10106.3	10047.1	9983.0	9912.0
20°	5789.4	5773.6	5875.2	6014.3	7120.9	7413.8	7404.9	7219.5	6951.2	6899.9
22.5°	4055.5	4085.1	4071.3	4209.4	4438.2	5246.0	5146.3	4958.0	4870.2	4813.0
25°	2667.9	2657.0	2726.0	2767.5	2963.7	3062.4	3411.5	3341.5	3206.4	3221.1
27.5°	1626.4	1640.2	1665.8	1701.3	1840.4	1808.8	2008.0	2034.7	1991.3	1944.9
30°	998.1	1008.0	1028.7	1054.3	1102.6	1068.1	1123.4	1219.0	1203.2	1170.7
32.5°	677.6	678.6	693.3	703.2	697.3	664.7	682.5	773.2	775.2	772.2
35°	487.2	487.2	501.0	508.9	492.1	465.5	468.5	524.7	549.4	554.3
37.5°	336.3	337.3	361.0	384.6	365.9	359.0	347.2	384.6	424.1	430.0
40°	255.4	254.5	266.3	284.0	286.0	273.2	277.1	300.8	341.2	346.2
42.5°	207.1	208.1	214.0	212.0	213.0	229.8	235.7	246.6	284.0	292.9
45°	174.6	175.6	178.5	168.7	164.7	190.3	198.2	204.2	235.7	246.6
47.5°	144.0	146.0	148.9	138.1	136.1	152.9	166.7	172.6	200.2	212.0
50°	103.6	105.5	116.4	110.5	116.4	120.3	139.1	147.9	166.7	182.5
52.5°	75.0	76.9	79.9	80.9	95.7	97.6	111.4	125.3	134.1	151.9
55°	59.2	61.1	59.2	57.2	70.0	80.9	85.8	100.6	107.5	128.2
57.5°	33.5	35.5	38.5	44.4	46.4	62.1	67.1	79.9	85.8	105.5
60°	5.9	6.9	10.8	26.6	32.5	39.5	50.3	61.1	69.0	82.8
62.5°	1.0	1.0	2.0	5.9	18.7	27.6	36.5	43.4	50.3	63.1
65°	0.0	0.0	1.0	2.0	4.9	15.8	19.7	25.6	34.5	45.4
67.5°	0.0	0.0	1.0	2.0	3.0	5.9	8.9	15.8	19.7	30.6
70°	0.0	0.0	1.0	2.0	3.0	3.9	4.9	6.9	11.8	18.7
72.5°	0.0	0.0	1.0	2.0	3.0	3.9	4.9	5.9	5.9	11.8
75°	0.0	0.0	1.0	2.0	3.0	4.9	5.9	5.9	4.9	4.9
77.5°	0.0	0.0	1.0	2.0	3.9	5.9	6.9	5.9	3.9	3.9
80°	0.0	0.0	2.0	3.0	4.9	6.9	8.9	6.9	3.9	2.0
82.5°	0.0	0.0	2.0	3.9	4.9	7.9	10.8	8.9	3.9	2.0
85°	0.0	0.0	1.0	3.0	5.9	7.9	10.8	7.9	3.9	1.0
87.5°	0.0	0.0	1.0	1.0	2.0	3.0	5.9	4.9	2.0	1.0
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°
30945.1	0°	30945.1	30945.1	30945.1	30945.1	30945.1	30945.1	30945.1	30945.1	30945.1
30204.4	2.5°	30378.0	30535.8	30568.4	30525.0	30588.1	30474.7	30387.9	30163.0	30027.9
28289.1	5°	28471.6	28447.9	28612.6	28666.9	28659.9	28573.2	28451.8	28315.7	28183.6
25334.3	7.5°	25492.1	25522.6	25672.5	25768.2	25719.9	25611.4	25527.6	25425.0	25336.2
22121.0	10°	22323.2	22113.1	22299.5	22299.5	22428.7	22122.0	22150.6	21892.2	21904.0
18428.4	12.5°	18491.5	18567.5	18598.0	18685.8	18534.9	18372.2	18173.0	18133.5	18010.2
13773.2	15°	13971.5	14188.4	14002.0	14320.6	14166.7	13997.1	13966.5	13660.8	13757.4
9989.9	17.5°	9940.6	10180.3	10255.2	10437.7	10297.6	10197.0	10069.8	9977.1	9970.2
6993.6	20°	7048.9	7289.5	7344.7	7563.7	7547.9	7516.3	7408.8	7291.5	7164.2
4760.7	22.5°	4832.7	5029.0	5212.4	5507.3	5502.4	5409.7	5398.8	5233.1	5236.1
3216.2	25°	3249.8	3392.8	3436.2	3738.0	3771.5	3761.6	3705.4	3551.5	3609.7
1964.6	27.5°	1966.6	2091.9	2238.8	2345.3	2445.9	2430.2	2373.9	2288.1	2250.7
1180.6	30°	1212.1	1268.3	1322.6	1450.8	1511.0	1542.5	1515.9	1436.0	1441.9
777.2	32.5°	793.9	841.3	880.7	961.6	993.2	1051.4	1040.5	1023.7	1004.0
559.2	35°	578.9	613.5	640.1	677.6	718.0	767.3	775.2	768.3	760.4
432.0	37.5°	441.8	477.4	507.9	523.7	555.3	593.7	615.4	614.4	608.5
352.1	40°	359.0	385.6	413.2	434.0	455.7	484.3	510.9	513.8	513.8
295.9	42.5°	299.8	322.5	350.1	371.8	387.6	414.2	441.8	443.8	441.8
250.5	45°	256.4	276.2	302.8	328.4	341.2	361.0	387.6	393.5	389.6
215.0	47.5°	222.9	240.6	263.3	290.9	304.8	322.5	347.2	354.1	353.1
185.4	50°	191.3	212.0	234.7	257.4	275.2	291.9	315.6	323.5	320.5
157.8	52.5°	168.7	187.4	207.1	231.8	252.5	267.3	286.0	299.8	295.9
133.1	55°	141.0	163.7	184.4	205.1	230.8	246.6	264.3	281.1	277.1
112.4	57.5°	122.3	141.0	164.7	183.4	209.1	227.8	245.6	263.3	262.3
91.7	60°	102.6	122.3	145.0	164.7	188.4	209.1	226.8	246.6	248.5
69.0	62.5°	80.9	104.5	124.3	147.0	170.6	193.3	209.1	228.8	231.8
52.3	65°	61.1	85.8	107.5	129.2	152.9	177.5	191.3	208.1	211.1
38.5	67.5°	45.4	66.1	91.7	111.4	136.1	159.8	172.6	186.4	191.3
23.7	70°	34.5	50.3	76.9	95.7	121.3	140.0	153.9	165.7	169.6
15.8	72.5°	21.7	39.5	62.1	81.9	104.5	121.3	131.2	138.1	144.0
8.9	75°	14.8	30.6	50.3	70.0	86.8	99.6	108.5	114.4	119.3
3.9	77.5°	8.9	23.7	41.4	58.2	69.0	78.9	87.8	91.7	94.7
3.0	80°	4.9	17.8	34.5	47.3	54.2	61.1	68.1	73.0	75.0
2.0	82.5°	3.0	13.8	27.6	36.5	39.5	46.4	53.3	56.2	56.2
1.0	85°	2.0	9.9	18.7	26.6	28.6	33.5	35.5	37.5	39.5
1.0	87.5°	2.0	5.9	11.8	14.8	15.8	17.8	18.7	20.7	22.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
30945.1
29928.3
28035.6
25035.4
21788.6
17897.8
13660.8
9786.7
7109.0
5178.9
3518.0
2218.1
1416.3
997.1
757.5
605.6
507.9
439.9
389.6
351.1
318.6
294.9
279.1
263.3
249.5
233.7
214.0
193.3
171.6
143.0
118.4
93.7
73.0
55.2
38.5
21.7
0.0

(END OF REPORT)