

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: P637404

Luminaire Tested: **IFLD-S-SA2A-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637404
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9108.2 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

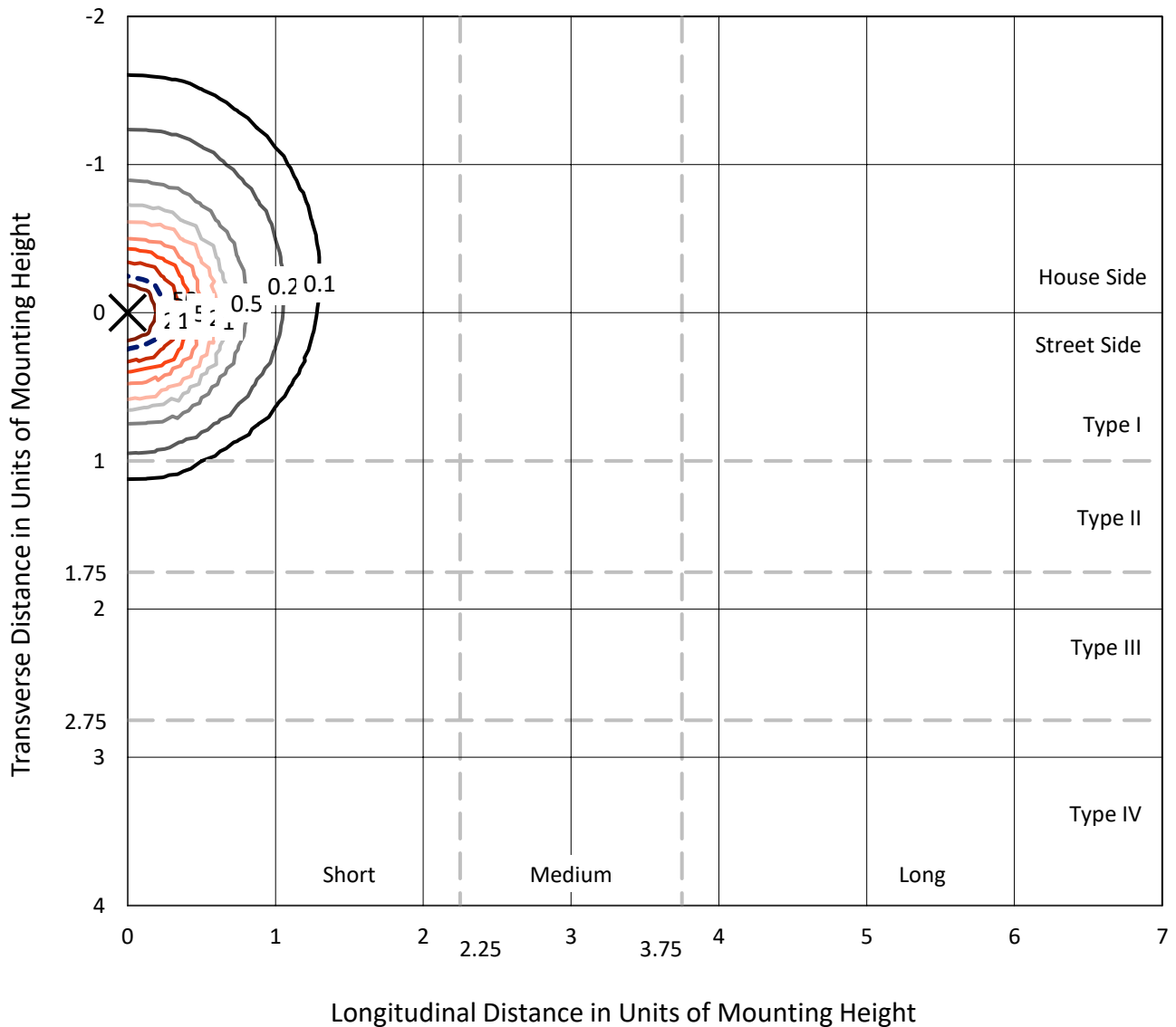
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

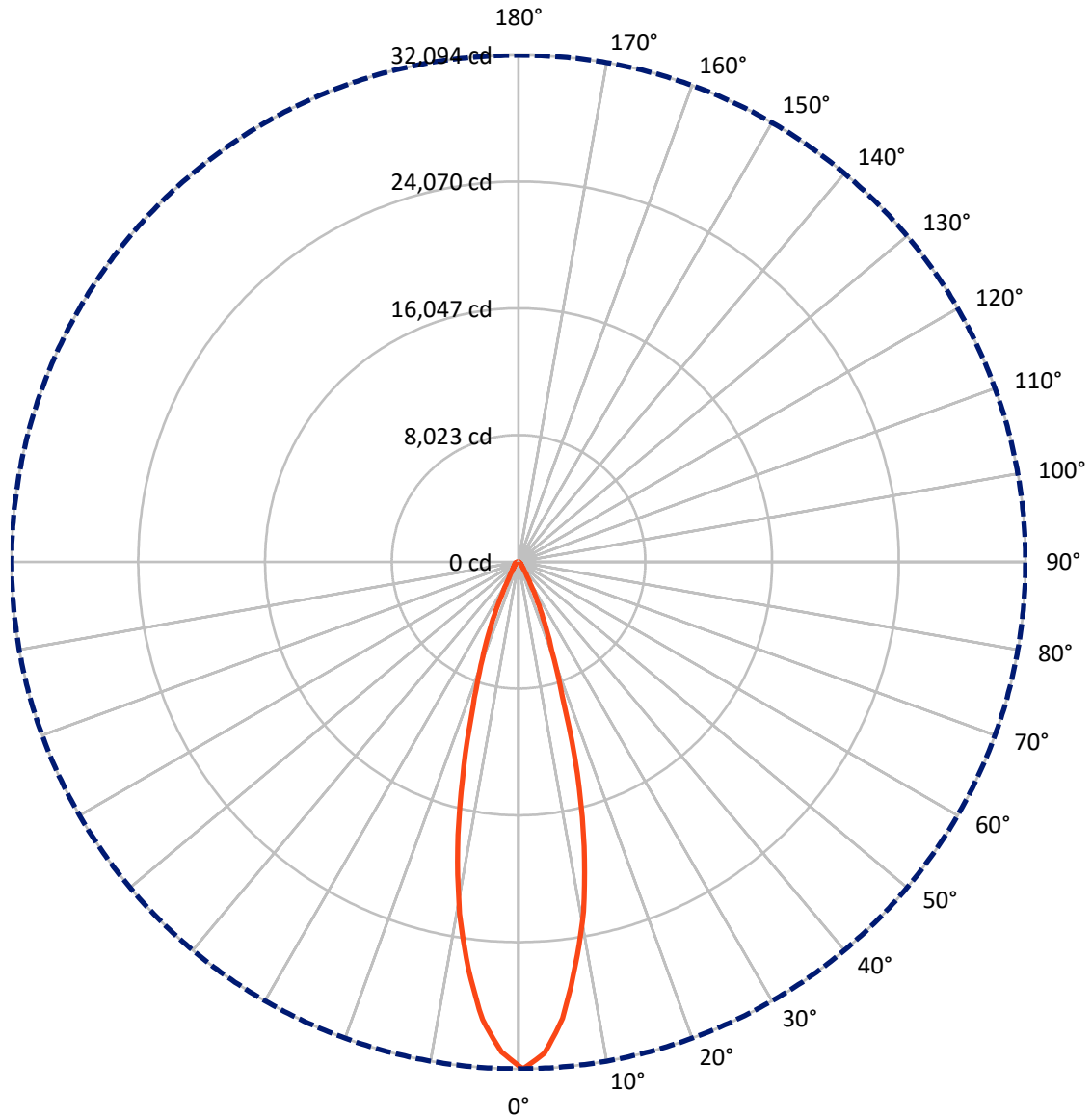
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 80.2 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	4802.5	0.0	4802.5
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	4305.7	0.0	4305.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	9108.2	0.0	9108.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2590.2	28.4
10°-20°	3922.9	43.1
20°-30°	1655.5	18.2
30°-40°	431.8	4.7
40°-50°	218.4	2.4
50°-60°	142.7	1.6
60°-70°	85.5	0.9
70°-80°	45.0	0.5
80°-90°	16.2	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°	9108.2	100.0
0°-180°	9108.2	100.0

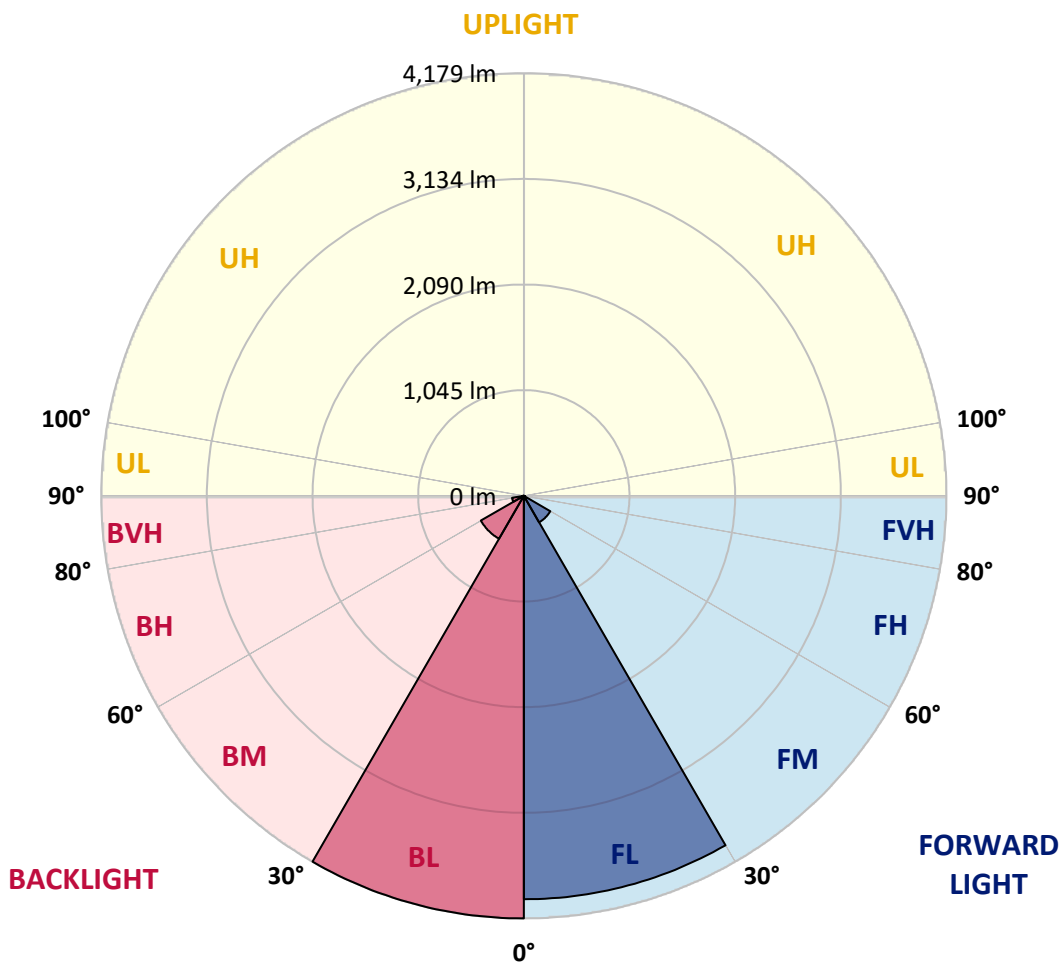


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3989.3	43.8			
FM (30°-60°)	302.1	3.3			
FH (60°-80°)	12.3	0.1			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	4179.2	45.9	B4/5000		
BM (30°-60°)	490.8	5.4	B1/1000		
BH (60°-80°)	118.2	1.3	B1/500		G0/660
BVH (80°-90°)	14.3	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°	32093.5	32093.5	32093.5	32093.5	32093.5	32093.5	32093.5	32093.5	32093.5	32093.5
2.5°	31158.6	31175.9	31111.5	31250.6	31142.2	31432.7	31288.5	31513.5	31437.8	31563.6
5°	29031.0	29002.4	28983.9	29199.8	29137.4	29449.3	29249.9	29184.4	29387.0	29350.1
7.5°	25818.2	25893.9	25850.9	25907.2	25938.9	26294.8	26407.3	26319.4	26322.4	26373.6
10°	22524.5	22413.0	22254.5	22359.9	22582.8	22738.3	22675.9	22804.8	22776.2	22897.9
12.5°	18471.9	18559.9	18470.9	18376.8	18766.5	18723.6	18832.0	18902.6	18725.6	19119.4
15°	13914.1	13960.1	14068.5	14061.3	14361.0	14421.4	14407.1	14481.7	14343.7	14409.1
17.5°	8938.8	9094.3	9385.8	9878.8	10433.2	10497.7	10481.3	10419.9	10353.5	10279.8
20°	6004.2	5987.9	6093.2	6237.4	7385.1	7688.9	7679.7	7487.4	7209.2	7156.0
22.5°	4206.0	4236.7	4222.4	4365.6	4602.9	5440.6	5337.3	5141.9	5050.9	4991.6
25°	2766.9	2755.6	2827.2	2870.2	3073.7	3176.0	3538.1	3465.5	3325.3	3340.7
27.5°	1686.7	1701.0	1727.6	1764.4	1908.7	1875.9	2082.6	2110.2	2065.2	2017.1
30°	1035.1	1045.4	1066.8	1093.4	1143.6	1107.8	1165.0	1264.3	1247.9	1214.1
32.5°	702.7	703.7	719.1	729.3	723.2	689.4	707.8	801.9	804.0	800.9
35°	505.3	505.3	519.6	527.8	510.4	482.8	485.9	544.2	569.7	574.9
37.5°	348.8	349.8	374.4	398.9	379.5	372.3	360.0	398.9	439.8	446.0
40°	264.9	263.9	276.2	294.6	296.6	283.3	287.4	312.0	353.9	359.0
42.5°	214.8	215.8	222.0	219.9	220.9	238.3	244.5	255.7	294.6	303.8
45°	181.0	182.1	185.1	174.9	170.8	197.4	205.6	211.7	244.5	255.7
47.5°	149.3	151.4	154.5	143.2	141.2	158.5	172.9	179.0	207.6	219.9
50°	107.4	109.4	120.7	114.6	120.7	124.8	144.2	153.4	172.9	189.2
52.5°	77.7	79.8	82.9	83.9	99.2	101.3	115.6	129.9	139.1	157.5
55°	61.4	63.4	61.4	59.3	72.6	83.9	89.0	104.3	111.5	133.0
57.5°	34.8	36.8	39.9	46.0	48.1	64.4	69.6	82.9	89.0	109.4
60°	6.1	7.2	11.3	27.6	33.8	40.9	52.2	63.4	71.6	85.9
62.5°	1.0	1.0	2.0	6.1	19.4	28.6	37.8	45.0	52.2	65.5
65°	0.0	0.0	1.0	2.0	5.1	16.4	20.5	26.6	35.8	47.1
67.5°	0.0	0.0	1.0	2.0	3.1	6.1	9.2	16.4	20.5	31.7
70°	0.0	0.0	1.0	2.0	3.1	4.1	5.1	7.2	12.3	19.4
72.5°	0.0	0.0	1.0	2.0	3.1	4.1	5.1	6.1	6.1	12.3
75°	0.0	0.0	1.0	2.0	3.1	5.1	6.1	6.1	5.1	5.1
77.5°	0.0	0.0	1.0	2.0	4.1	6.1	7.2	6.1	4.1	4.1
80°	0.0	0.0	2.0	3.1	5.1	7.2	9.2	7.2	4.1	2.0
82.5°	0.0	0.0	2.0	4.1	5.1	8.2	11.3	9.2	4.1	2.0
85°	0.0	0.0	1.0	3.1	6.1	8.2	11.3	8.2	4.1	1.0
87.5°	0.0	0.0	1.0	1.0	2.0	3.1	6.1	5.1	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°
32093.5	0°	32093.5	32093.5	32093.5	32093.5	32093.5	32093.5	32093.5	32093.5	32093.5
31325.3	2.5°	31505.3	31669.0	31702.7	31657.7	31723.2	31605.5	31515.5	31282.3	31142.2
29338.9	5°	29528.1	29503.6	29674.4	29730.6	29723.5	29633.5	29507.6	29366.5	29229.4
26274.4	7.5°	26438.0	26469.7	26625.2	26724.4	26674.3	26561.8	26474.8	26368.5	26276.4
22941.9	10°	23151.6	22933.7	23127.0	23127.0	23261.0	22942.9	22972.6	22704.6	22716.8
19112.3	12.5°	19177.7	19256.5	19288.2	19379.2	19222.7	19054.0	18847.3	18806.4	18678.6
14284.3	15°	14489.9	14715.0	14521.6	14852.0	14692.5	14516.5	14484.8	14167.7	14268.0
10360.6	17.5°	10309.5	10558.0	10635.8	10825.0	10679.7	10575.4	10443.5	10347.3	10340.2
7253.1	20°	7310.4	7560.0	7617.3	7844.4	7828.0	7795.3	7683.8	7562.1	7430.1
4937.4	22.5°	5012.0	5215.6	5405.8	5711.7	5706.6	5610.4	5599.2	5427.3	5430.4
3335.6	25°	3370.3	3518.7	3563.7	3876.7	3911.4	3901.2	3842.9	3683.3	3743.7
2037.5	27.5°	2039.6	2169.5	2321.9	2432.4	2536.7	2520.3	2462.0	2373.0	2334.2
1224.4	30°	1257.1	1315.4	1371.7	1504.6	1567.0	1599.8	1572.1	1489.3	1495.4
806.0	32.5°	823.4	872.5	913.4	997.3	1030.0	1090.4	1079.1	1061.7	1041.3
580.0	35°	600.4	636.2	663.8	702.7	744.6	795.8	804.0	796.8	788.6
448.0	37.5°	458.2	495.1	526.8	543.1	575.9	615.8	638.3	637.2	631.1
365.2	40°	372.3	399.9	428.6	450.1	472.6	502.2	529.8	532.9	532.9
306.9	42.5°	311.0	334.5	363.1	385.6	402.0	429.6	458.2	460.3	458.2
259.8	45°	265.9	286.4	314.0	340.6	353.9	374.4	402.0	408.1	404.0
223.0	47.5°	231.2	249.6	273.1	301.7	316.1	334.5	360.0	367.2	366.2
192.3	50°	198.4	219.9	243.4	267.0	285.4	302.8	327.3	335.5	332.4
163.7	52.5°	174.9	194.3	214.8	240.4	261.9	277.2	296.6	311.0	306.9
138.1	55°	146.3	169.8	191.3	212.8	239.4	255.7	274.1	291.5	287.4
116.6	57.5°	126.8	146.3	170.8	190.3	216.8	236.3	254.7	273.1	272.1
95.1	60°	106.4	126.8	150.4	170.8	195.4	216.8	235.3	255.7	257.8
71.6	62.5°	83.9	108.4	128.9	152.4	177.0	200.5	216.8	237.3	240.4
54.2	65°	63.4	89.0	111.5	134.0	158.5	184.1	198.4	215.8	218.9
39.9	67.5°	47.1	68.5	95.1	115.6	141.2	165.7	179.0	193.3	198.4
24.5	70°	35.8	52.2	79.8	99.2	125.8	145.2	159.6	171.8	175.9
16.4	72.5°	22.5	40.9	64.4	84.9	108.4	125.8	136.0	143.2	149.3
9.2	75°	15.3	31.7	52.2	72.6	90.0	103.3	112.5	118.7	123.8
4.1	77.5°	9.2	24.5	43.0	60.3	71.6	81.8	91.0	95.1	98.2
3.1	80°	5.1	18.4	35.8	49.1	56.3	63.4	70.6	75.7	77.7
2.0	82.5°	3.1	14.3	28.6	37.8	40.9	48.1	55.2	58.3	58.3
1.0	85°	2.0	10.2	19.4	27.6	29.7	34.8	36.8	38.9	40.9
1.0	87.5°	2.0	6.1	12.3	15.3	16.4	18.4	19.4	21.5	23.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
32093.5
31038.9
29076.0
25964.4
22597.2
18562.0
14167.7
10149.9
7372.8
5371.1
3648.6
2300.4
1468.8
1034.1
785.6
628.0
526.8
456.2
404.0
364.1
330.4
305.8
289.5
273.1
258.8
242.4
222.0
200.5
178.0
148.3
122.7
97.2
75.7
57.3
39.9
22.5
0.0

(END OF REPORT)