

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: P637409

Luminaire Tested: **IFLD-S-SA3A-750-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637409
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-750-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13573.7 lumens
Efficiency: N/A
Efficacy: 143.2 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

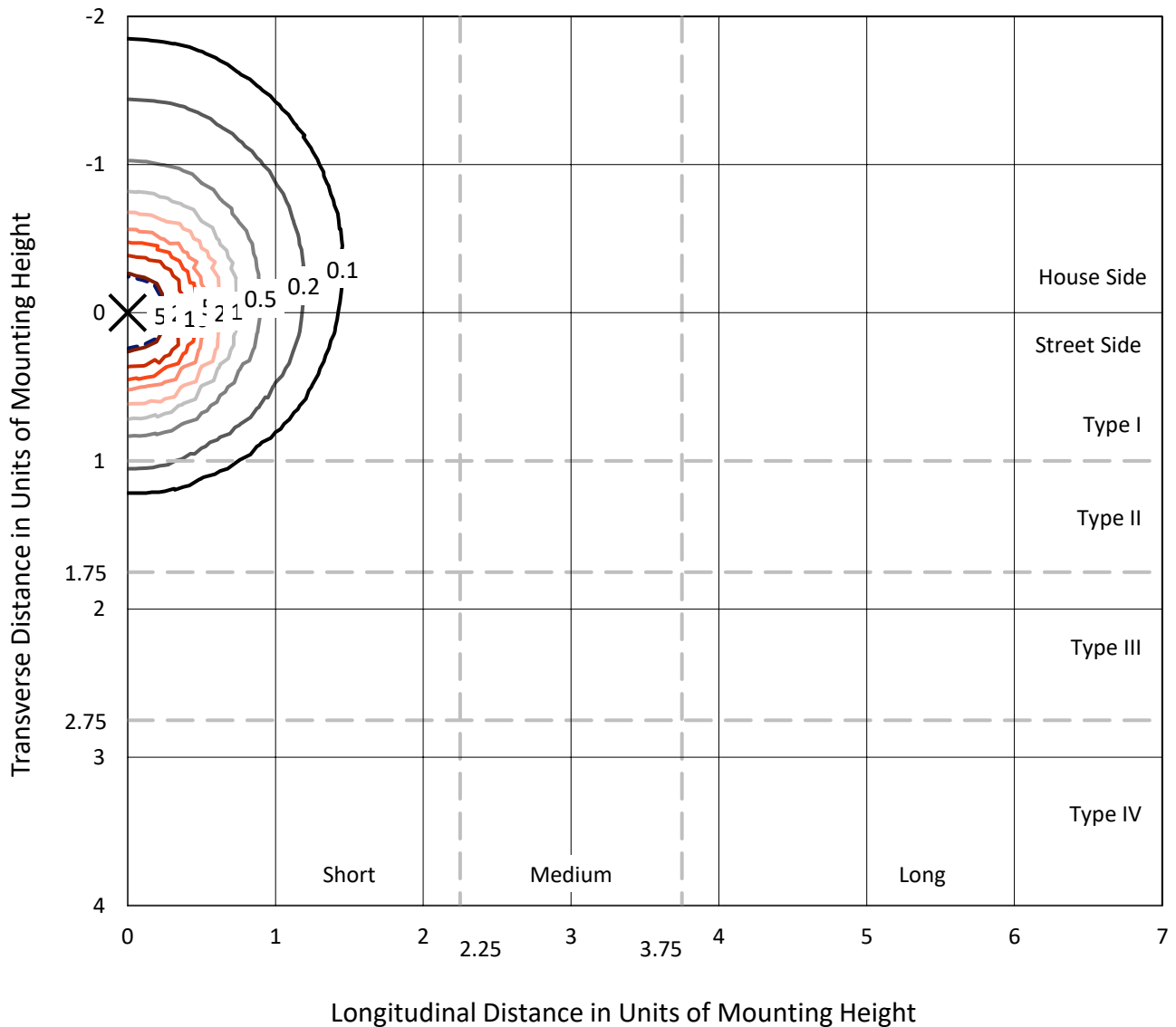
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

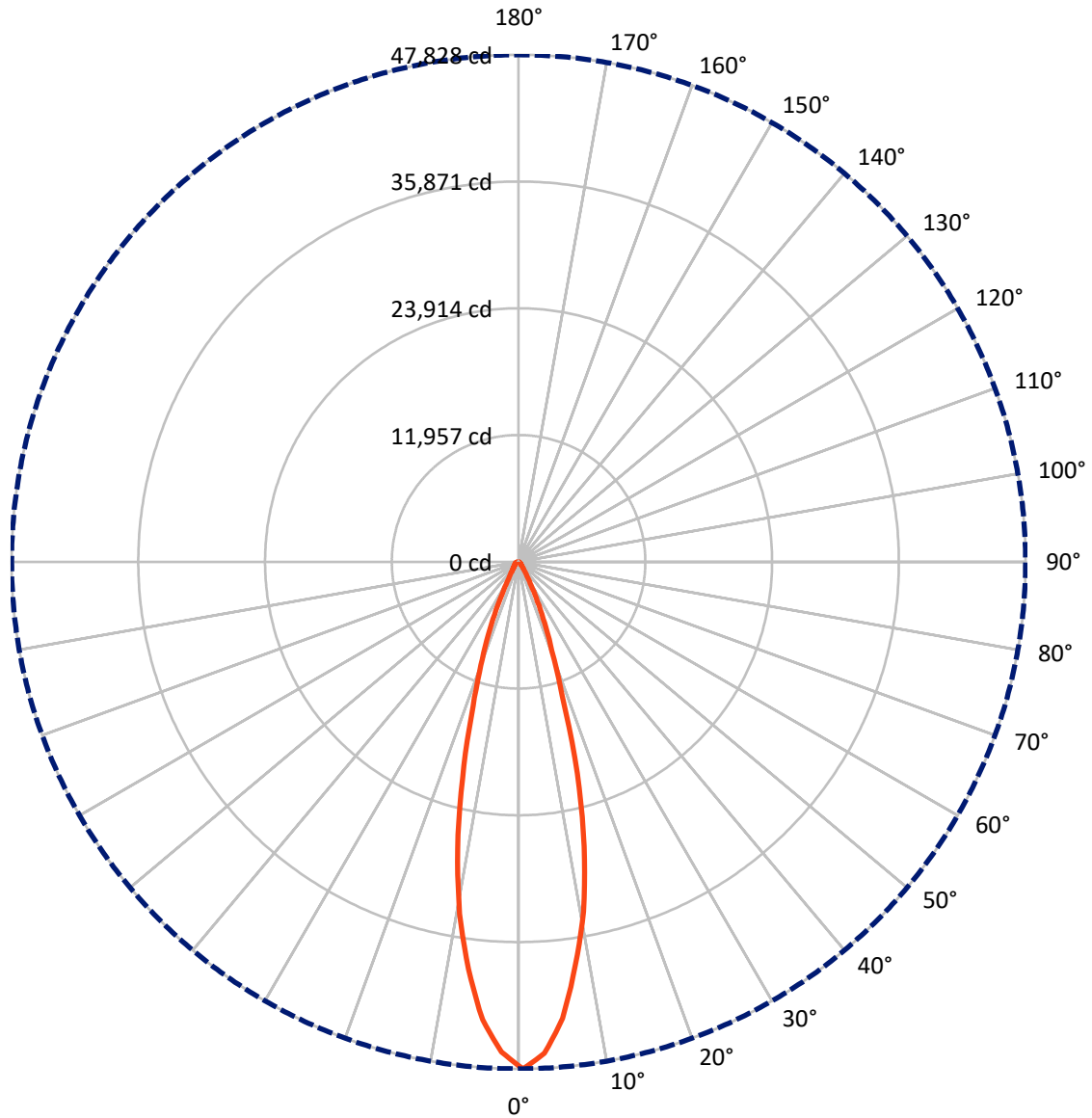
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 119.6 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	7157.0	0.0	7157.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6416.7	0.0	6416.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	13573.7	0.0	13573.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3860.1	28.4
10°-20°	5846.2	43.1
20°-30°	2467.1	18.2
30°-40°	643.4	4.7
40°-50°	325.4	2.4
50°-60°	212.7	1.6
60°-70°	127.4	0.9
70°-80°	67.0	0.5
80°-90°	24.2	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°	13573.7	100.0
0°-180°	13573.7	100.0

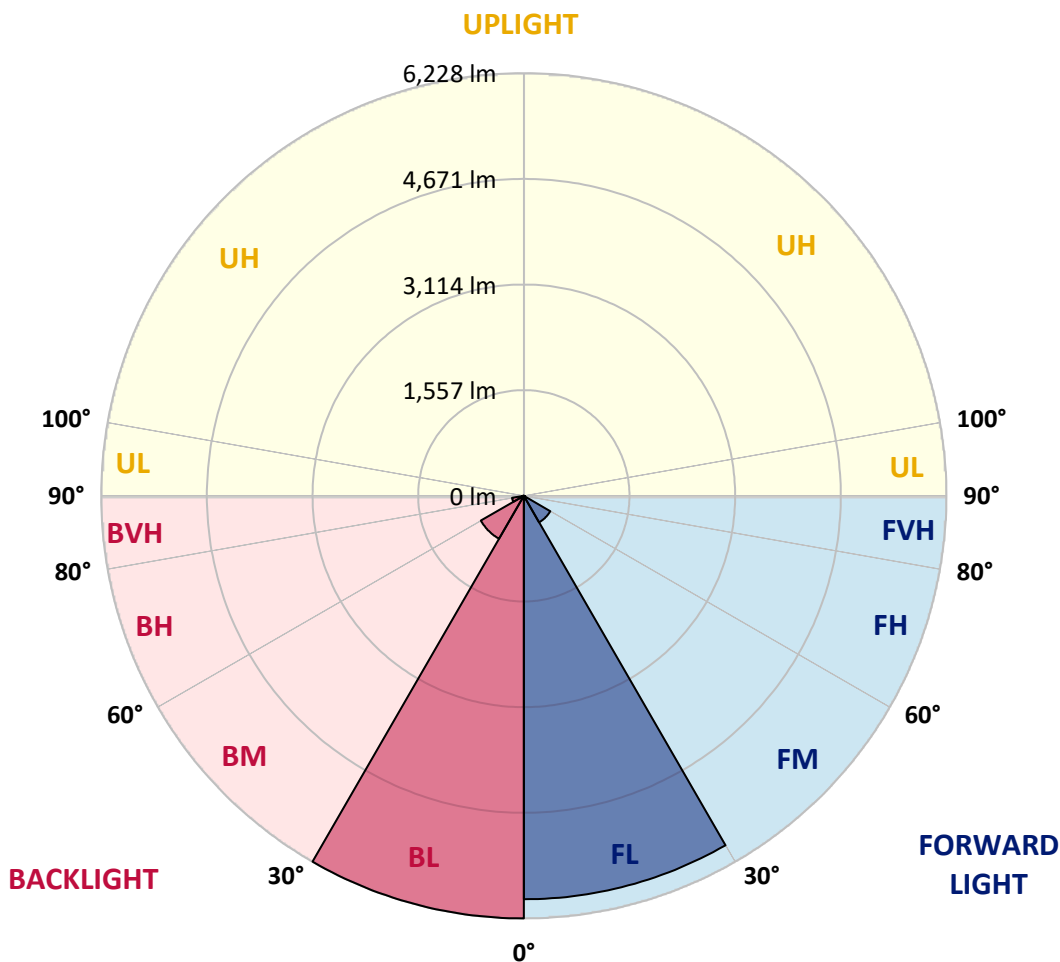


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5945.2	43.8			
FM (30°-60°)	450.2	3.3			
FH (60°-80°)	18.3	0.1			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	6228.2	45.9	B5		
BM (30°-60°)	731.4	5.4	B1/1000		
BH (60°-80°)	176.1	1.3	B1/500		G0/660
BVH (80°-90°)	21.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	47828.0	47828.0	47828.0	47828.0	47828.0	47828.0	47828.0	47828.0	47828.0	47828.0
2.5°	46434.7	46460.7	46364.6	46571.9	46410.4	46843.3	46628.3	46963.7	46850.9	47038.4
5°	43264.1	43221.4	43194.0	43515.6	43422.6	43887.6	43590.3	43492.8	43794.6	43739.7
7.5°	38476.1	38588.9	38524.9	38608.7	38656.0	39186.5	39354.1	39223.0	39227.6	39303.8
10°	33567.7	33401.6	33165.3	33322.3	33654.6	33886.3	33793.3	33985.4	33942.7	34124.1
12.5°	27528.2	27659.3	27526.7	27386.5	27967.2	27903.2	28064.8	28170.0	27906.3	28493.1
15°	20735.7	20804.3	20965.9	20955.2	21401.9	21491.8	21470.5	21581.7	21376.0	21473.5
17.5°	13321.3	13553.0	13987.4	14722.2	15548.4	15644.4	15620.0	15528.6	15429.5	15319.7
20°	8947.9	8923.5	9080.6	9295.5	11005.8	11458.5	11444.8	11158.2	10743.6	10664.4
22.5°	6268.1	6313.9	6292.5	6505.9	6859.6	8108.0	7954.1	7662.9	7527.2	7438.8
25°	4123.4	4106.6	4213.3	4277.3	4580.7	4733.1	5272.7	5164.5	4955.7	4978.5
27.5°	2513.7	2535.0	2574.6	2629.5	2844.4	2795.7	3103.6	3144.7	3077.7	3006.0
30°	1542.6	1557.9	1589.9	1629.5	1704.2	1650.9	1736.2	1884.1	1859.7	1809.4
32.5°	1047.2	1048.8	1071.6	1086.9	1077.7	1027.4	1054.9	1195.1	1198.1	1193.6
35°	753.0	753.0	774.4	786.6	760.7	719.5	724.1	811.0	849.1	856.7
37.5°	519.8	521.3	557.9	594.5	565.5	554.9	536.6	594.5	655.5	664.6
40°	394.8	393.3	411.6	439.0	442.1	422.2	428.3	464.9	527.4	535.0
42.5°	320.1	321.6	330.8	327.7	329.3	355.2	364.3	381.1	439.0	452.7
45°	269.8	271.3	275.9	260.7	254.6	294.2	306.4	315.5	364.3	381.1
47.5°	222.6	225.6	230.2	213.4	210.4	236.3	257.6	266.8	309.4	327.7
50°	160.1	163.1	179.9	170.7	179.9	186.0	214.9	228.7	257.6	282.0
52.5°	115.9	118.9	123.5	125.0	147.9	150.9	172.3	193.6	207.3	234.7
55°	91.5	94.5	91.5	88.4	108.2	125.0	132.6	155.5	166.2	198.2
57.5°	51.8	54.9	59.4	68.6	71.6	96.0	103.7	123.5	132.6	163.1
60°	9.1	10.7	16.8	41.2	50.3	61.0	77.7	94.5	106.7	128.0
62.5°	1.5	1.5	3.0	9.1	29.0	42.7	56.4	67.1	77.7	97.6
65°	0.0	0.0	1.5	3.0	7.6	24.4	30.5	39.6	53.4	70.1
67.5°	0.0	0.0	1.5	3.0	4.6	9.1	13.7	24.4	30.5	47.3
70°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	10.7	18.3	29.0
72.5°	0.0	0.0	1.5	3.0	4.6	6.1	7.6	9.1	9.1	18.3
75°	0.0	0.0	1.5	3.0	4.6	7.6	9.1	9.1	7.6	7.6
77.5°	0.0	0.0	1.5	3.0	6.1	9.1	10.7	9.1	6.1	6.1
80°	0.0	0.0	3.0	4.6	7.6	10.7	13.7	10.7	6.1	3.0
82.5°	0.0	0.0	3.0	6.1	7.6	12.2	16.8	13.7	6.1	3.0
85°	0.0	0.0	1.5	4.6	9.1	12.2	16.8	12.2	6.1	1.5
87.5°	0.0	0.0	1.5	1.5	3.0	4.6	9.1	7.6	3.0	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°
47828.0	0°	47828.0	47828.0	47828.0	47828.0	47828.0	47828.0	47828.0	47828.0	47828.0
46683.2	2.5°	46951.5	47195.4	47245.7	47178.6	47276.2	47100.9	46966.7	46619.2	46410.4
43722.9	5°	44004.9	43968.3	44222.9	44306.8	44296.1	44161.9	43974.4	43764.1	43559.8
39156.0	7.5°	39399.9	39447.1	39678.8	39826.7	39752.0	39584.3	39454.7	39296.2	39159.0
34189.6	10°	34502.1	34177.4	34465.6	34465.6	34665.2	34191.2	34235.4	33836.0	33854.3
28482.5	12.5°	28580.0	28697.4	28744.7	28880.3	28647.1	28395.6	28087.7	28026.7	27836.2
21287.5	15°	21593.9	21929.3	21641.2	22133.6	21895.8	21633.6	21586.3	21113.8	21263.2
15440.1	17.5°	15363.9	15734.3	15850.2	16132.2	15915.7	15760.3	15563.6	15420.3	15409.7
10809.2	20°	10894.5	11266.5	11351.8	11690.2	11665.8	11617.1	11450.9	11269.5	11072.9
7358.0	22.5°	7469.3	7772.7	8056.2	8512.0	8504.3	8361.1	8344.3	8088.2	8092.8
4970.9	25°	5022.7	5243.8	5310.8	5777.3	5829.1	5813.9	5727.0	5489.2	5579.1
3036.5	27.5°	3039.6	3233.1	3460.3	3624.9	3780.4	3756.0	3669.1	3536.5	3478.6
1824.6	30°	1873.4	1960.3	2044.2	2242.3	2335.3	2384.1	2342.9	2219.5	2228.6
1201.2	32.5°	1227.1	1300.3	1361.2	1486.2	1535.0	1625.0	1608.2	1582.3	1551.8
864.3	35°	894.8	948.1	989.3	1047.2	1109.7	1185.9	1198.1	1187.5	1175.3
667.7	37.5°	682.9	737.8	785.0	809.4	858.2	917.7	951.2	949.7	940.5
544.2	40°	554.9	596.0	638.7	670.7	704.2	748.5	789.6	794.2	794.2
457.3	42.5°	463.4	498.5	541.1	574.7	599.1	640.2	682.9	686.0	682.9
387.2	45°	396.3	426.8	468.0	507.6	527.4	557.9	599.1	608.2	602.1
332.3	47.5°	344.5	371.9	407.0	449.7	471.0	498.5	536.6	547.2	545.7
286.6	50°	295.7	327.7	362.8	397.9	425.3	451.2	487.8	500.0	495.4
243.9	52.5°	260.7	289.6	320.1	358.2	390.2	413.1	442.1	463.4	457.3
205.8	55°	218.0	253.0	285.1	317.1	356.7	381.1	408.5	434.4	428.3
173.8	57.5°	189.0	218.0	254.6	283.5	323.2	352.1	379.6	407.0	405.5
141.8	60°	158.5	189.0	224.1	254.6	291.2	323.2	350.6	381.1	384.1
106.7	62.5°	125.0	161.6	192.1	227.1	263.7	298.8	323.2	353.6	358.2
80.8	65°	94.5	132.6	166.2	199.7	236.3	274.4	295.7	321.6	326.2
59.4	67.5°	70.1	102.1	141.8	172.3	210.4	246.9	266.8	288.1	295.7
36.6	70°	53.4	77.7	118.9	147.9	187.5	216.5	237.8	256.1	262.2
24.4	72.5°	33.5	61.0	96.0	126.5	161.6	187.5	202.7	213.4	222.6
13.7	75°	22.9	47.3	77.7	108.2	134.1	154.0	167.7	176.8	184.4
6.1	77.5°	13.7	36.6	64.0	89.9	106.7	121.9	135.7	141.8	146.3
4.6	80°	7.6	27.4	53.4	73.2	83.8	94.5	105.2	112.8	115.9
3.0	82.5°	4.6	21.3	42.7	56.4	61.0	71.6	82.3	86.9	86.9
1.5	85°	3.0	15.2	29.0	41.2	44.2	51.8	54.9	57.9	61.0
1.5	87.5°	3.0	9.1	18.3	22.9	24.4	27.4	29.0	32.0	35.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<u>47828.0</u>
46256.4
43331.2
38694.1
33675.9
27662.4
21113.8
15126.1
10987.5
8004.4
5437.4
3428.3
2189.0
1541.1
1170.7
936.0
785.0
679.9
602.1
542.7
492.4
455.8
431.4
407.0
385.7
361.3
330.8
298.8
265.2
221.0
182.9
144.8
112.8
85.4
59.4
33.5
0.0

(END OF REPORT)