

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: P637320

Luminaire Tested: **IFLD-S-SA2D-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637320
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-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: 13735.5 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

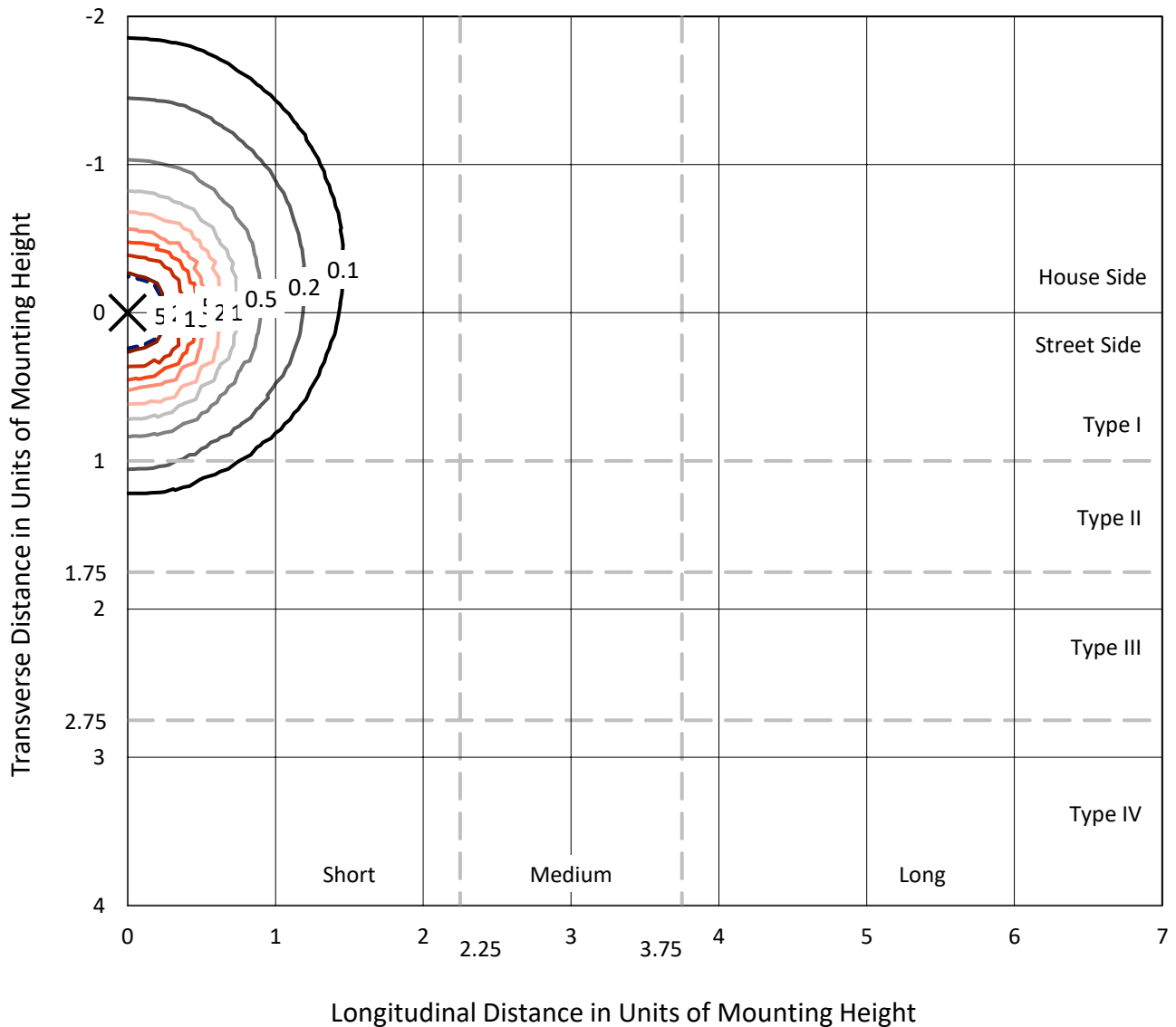
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P637320
 CATALOG NUMBER: IFLD-S-SA2D-730-U-44-VI

Iso-Footcandle Lines of Horizontal Illumination

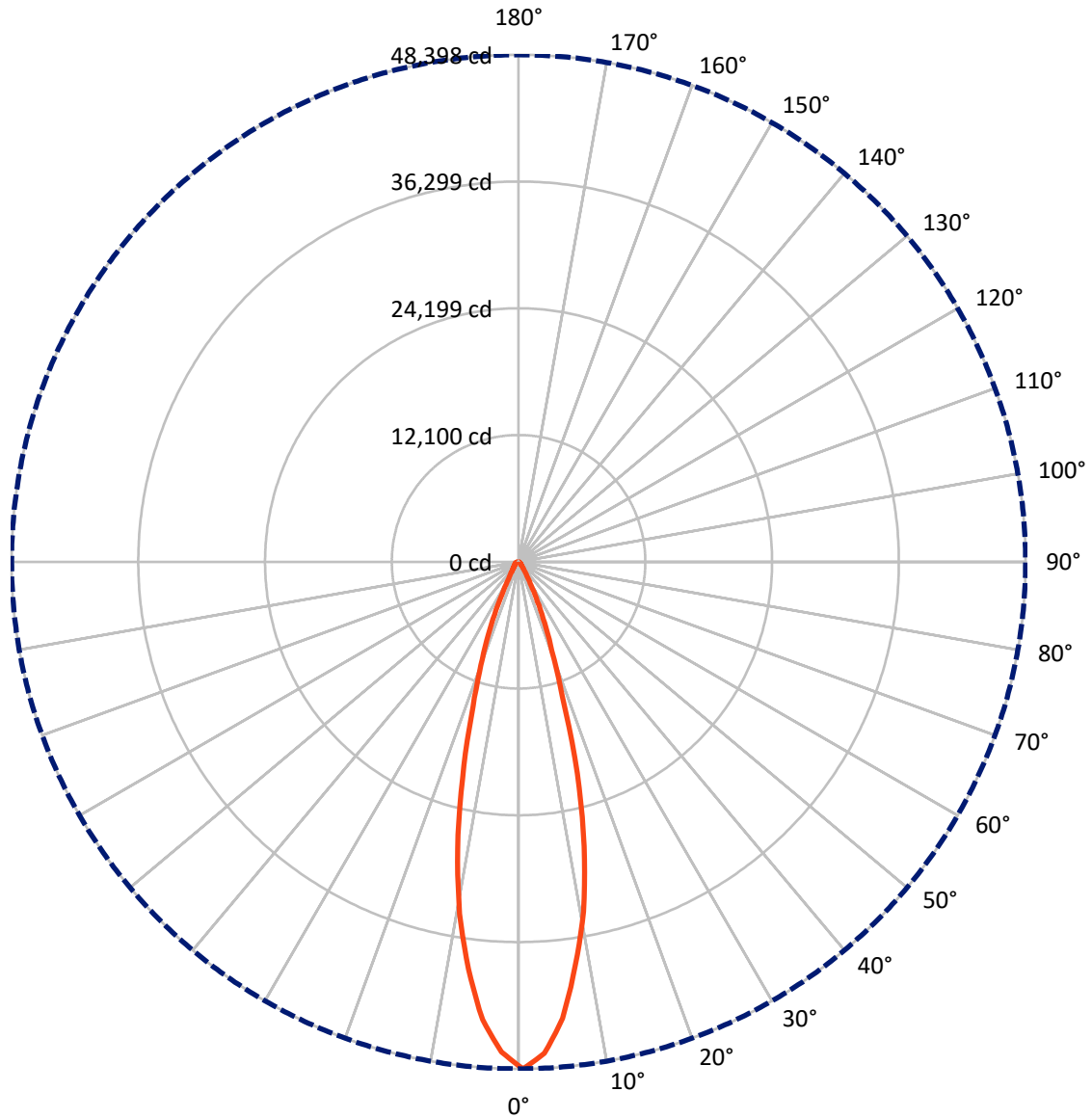
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 121 fc
 Type V - Short - N/A

REPORT NUMBER: P637320
CATALOG NUMBER: IFLD-S-SA2D-730-U-44-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

REPORT NUMBER: P637320
 CATALOG NUMBER: IFLD-S-SA2D-730-U-44-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7242.3	0.0	7242.3
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6493.2	0.0	6493.2
	% Fixture	47.3	0.0	47.3
Total	Lumens	13735.5	0.0	13735.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3906.2	28.4
10°-20°	5915.8	43.1
20°-30°	2496.5	18.2
30°-40°	651.1	4.7
40°-50°	329.3	2.4
50°-60°	215.3	1.6
60°-70°	129.0	0.9
70°-80°	67.8	0.5
80°-90°	24.5	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°	13735.5	100.0
0°-180°	13735.5	100.0

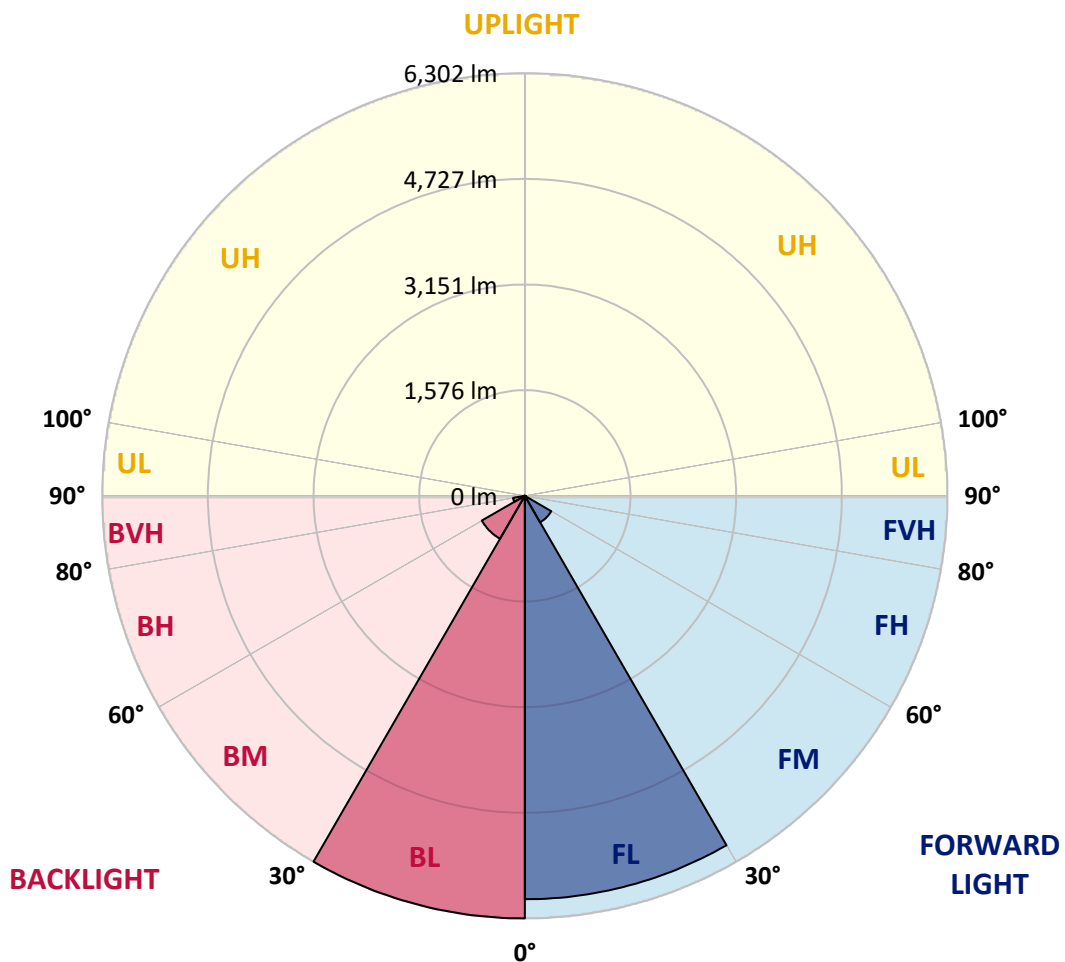


REPORT NUMBER: P637320
 CATALOG NUMBER: IFLD-S-SA2D-730-U-44-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6016.1	43.8			
FM (30°-60°)	455.6	3.3			
FH (60°-80°)	18.6	0.1			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	6302.4	45.9	B5		
BM (30°-60°)	740.1	5.4	B1/1000		
BH (60°-80°)	178.2	1.3	B1/500		G0/660
BVH (80°-90°)	21.5	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





REPORT NUMBER: P637320
 CATALOG NUMBER: IFLD-S-SA2D-730-U-44-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	48398.1	48398.1	48398.1	48398.1	48398.1	48398.1	48398.1	48398.1	48398.1	48398.1
2.5°	46988.2	47014.5	46917.3	47127.1	46963.6	47401.6	47184.1	47523.5	47409.3	47599.1
5°	43779.8	43736.6	43708.8	44034.3	43940.2	44410.7	44109.9	44011.2	44316.6	44261.1
7.5°	38934.7	39048.9	38984.1	39068.9	39116.8	39653.6	39823.2	39690.6	39695.2	39772.3
10°	33967.8	33799.7	33560.6	33719.5	34055.8	34290.2	34196.1	34390.5	34347.3	34530.9
12.5°	27856.4	27989.0	27854.8	27712.9	28300.6	28235.8	28399.3	28505.8	28238.9	28832.8
15°	20982.9	21052.3	21215.8	21205.0	21657.0	21748.0	21726.4	21839.0	21630.8	21729.5
17.5°	13480.1	13714.5	14154.2	14897.7	15733.7	15830.9	15806.2	15713.7	15613.4	15502.3
20°	9054.6	9029.9	9188.8	9406.3	11137.0	11595.1	11581.2	11291.2	10871.7	10791.5
22.5°	6342.8	6389.1	6367.5	6583.5	6941.3	8204.7	8048.9	7754.2	7617.0	7527.5
25°	4172.5	4155.5	4263.5	4328.3	4635.3	4789.5	5335.6	5226.1	5014.7	5037.9
27.5°	2543.6	2565.2	2605.3	2660.8	2878.3	2829.0	3140.6	3182.2	3114.3	3041.8
30°	1561.0	1576.5	1608.8	1649.0	1724.5	1670.5	1756.9	1906.6	1881.9	1831.0
32.5°	1059.7	1061.3	1084.4	1099.8	1090.6	1039.7	1067.4	1209.3	1212.4	1207.8
35°	762.0	762.0	783.6	795.9	769.7	728.1	732.7	820.6	859.2	866.9
37.5°	526.0	527.5	564.6	601.6	572.3	561.5	543.0	601.6	663.3	672.5
40°	399.5	398.0	416.5	444.2	447.3	427.3	433.4	470.5	533.7	541.4
42.5°	323.9	325.5	334.7	331.6	333.2	359.4	368.7	385.6	444.2	458.1
45°	273.0	274.6	279.2	263.8	257.6	297.7	310.0	319.3	368.7	385.6
47.5°	225.2	228.3	232.9	216.0	212.9	239.1	260.7	269.9	313.1	331.6
50°	162.0	165.0	182.0	172.8	182.0	188.2	217.5	231.4	260.7	285.4
52.5°	117.2	120.3	124.9	126.5	149.6	152.7	174.3	195.9	209.8	237.5
55°	92.6	95.6	92.6	89.5	109.5	126.5	134.2	157.3	168.1	200.5
57.5°	52.4	55.5	60.2	69.4	72.5	97.2	104.9	124.9	134.2	165.0
60°	9.3	10.8	17.0	41.6	50.9	61.7	78.7	95.6	108.0	129.6
62.5°	1.5	1.5	3.1	9.3	29.3	43.2	57.1	67.9	78.7	98.7
65°	0.0	0.0	1.5	3.1	7.7	24.7	30.9	40.1	54.0	71.0
67.5°	0.0	0.0	1.5	3.1	4.6	9.3	13.9	24.7	30.9	47.8
70°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	10.8	18.5	29.3
72.5°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	9.3	9.3	18.5
75°	0.0	0.0	1.5	3.1	4.6	7.7	9.3	9.3	7.7	7.7
77.5°	0.0	0.0	1.5	3.1	6.2	9.3	10.8	9.3	6.2	6.2
80°	0.0	0.0	3.1	4.6	7.7	10.8	13.9	10.8	6.2	3.1
82.5°	0.0	0.0	3.1	6.2	7.7	12.3	17.0	13.9	6.2	3.1
85°	0.0	0.0	1.5	4.6	9.3	12.3	17.0	12.3	6.2	1.5
87.5°	0.0	0.0	1.5	1.5	3.1	4.6	9.3	7.7	3.1	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637320
 CATALOG NUMBER: IFLD-S-SA2D-730-U-44-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
48398.1	0°	48398.1	48398.1	48398.1	48398.1	48398.1	48398.1	48398.1	48398.1	48398.1
47239.7	2.5°	47511.2	47758.0	47808.9	47741.0	47839.7	47662.3	47526.6	47174.9	46963.6
44244.1	5°	44529.5	44492.4	44750.0	44834.9	44824.1	44688.3	44498.6	44285.7	44079.0
39622.7	7.5°	39869.5	39917.3	40151.8	40301.4	40225.8	40056.2	39925.0	39764.6	39625.8
34597.2	10°	34913.4	34584.8	34876.4	34876.4	35078.4	34598.7	34643.5	34239.3	34257.8
28822.0	12.5°	28920.7	29039.5	29087.3	29224.6	28988.6	28734.1	28422.5	28360.8	28168.0
21541.3	15°	21851.3	22190.7	21899.2	22397.4	22156.8	21891.4	21843.6	21365.4	21516.6
15624.2	17.5°	15547.1	15921.9	16039.1	16324.5	16105.5	15948.1	15749.1	15604.1	15593.3
10938.0	20°	11024.4	11400.8	11487.1	11829.6	11804.9	11755.5	11587.4	11403.8	11204.9
7445.7	22.5°	7558.3	7865.3	8152.2	8613.4	8605.7	8460.7	8443.8	8184.6	8189.2
5030.2	25°	5082.6	5306.3	5374.1	5846.2	5898.6	5883.2	5795.2	5554.6	5645.6
3072.7	27.5°	3075.8	3271.7	3501.5	3668.1	3825.4	3800.8	3712.8	3578.6	3520.0
1846.4	30°	1895.8	1983.7	2068.5	2269.0	2363.1	2412.5	2370.9	2245.9	2255.2
1215.5	32.5°	1241.7	1315.8	1377.5	1504.0	1553.3	1644.3	1627.4	1601.1	1570.3
874.6	35°	905.5	959.4	1001.1	1059.7	1123.0	1200.1	1212.4	1201.6	1189.3
675.6	37.5°	691.0	746.6	794.4	819.1	868.4	928.6	962.5	961.0	951.7
550.7	40°	561.5	603.1	646.3	678.7	712.6	757.4	799.0	803.7	803.7
462.8	42.5°	468.9	504.4	547.6	581.5	606.2	647.9	691.0	694.1	691.0
391.8	45°	401.1	431.9	473.6	513.7	533.7	564.6	606.2	615.5	609.3
336.3	47.5°	348.6	376.4	411.9	455.0	476.6	504.4	543.0	553.8	552.2
290.0	50°	299.2	331.6	367.1	402.6	430.4	456.6	493.6	505.9	501.3
246.8	52.5°	263.8	293.1	323.9	362.5	394.9	418.0	447.3	468.9	462.8
208.2	55°	220.6	256.1	288.5	320.8	360.9	385.6	413.4	439.6	433.4
175.8	57.5°	191.3	220.6	257.6	286.9	327.0	356.3	384.1	411.9	410.3
143.5	60°	160.4	191.3	226.8	257.6	294.6	327.0	354.8	385.6	388.7
108.0	62.5°	126.5	163.5	194.4	229.8	266.9	302.3	327.0	357.9	362.5
81.8	65°	95.6	134.2	168.1	202.1	239.1	277.7	299.2	325.5	330.1
60.2	67.5°	71.0	103.3	143.5	174.3	212.9	249.9	269.9	291.5	299.2
37.0	70°	54.0	78.7	120.3	149.6	189.7	219.0	240.6	259.1	265.3
24.7	72.5°	33.9	61.7	97.2	128.0	163.5	189.7	205.2	216.0	225.2
13.9	75°	23.1	47.8	78.7	109.5	135.7	155.8	169.7	178.9	186.6
6.2	77.5°	13.9	37.0	64.8	91.0	108.0	123.4	137.3	143.5	148.1
4.6	80°	7.7	27.8	54.0	74.0	84.8	95.6	106.4	114.1	117.2
3.1	82.5°	4.6	21.6	43.2	57.1	61.7	72.5	83.3	87.9	87.9
1.5	85°	3.1	15.4	29.3	41.6	44.7	52.4	55.5	58.6	61.7
1.5	87.5°	3.1	9.3	18.5	23.1	24.7	27.8	29.3	32.4	35.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
48398.1
46807.8
43847.7
39155.3
34077.3
27992.1
21365.4
15306.4
11118.5
8099.8
5502.2
3469.1
2215.1
1559.5
1184.7
947.1
794.4
688.0
609.3
549.1
498.2
461.2
436.5
411.9
390.3
365.6
334.7
302.3
268.4
223.7
185.1
146.5
114.1
86.4
60.2
33.9
0.0

(END OF REPORT)