

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: P637468

Luminaire Tested: **IFLD-S-SA3B-827-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637468
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12064.1 lumens
Efficiency: N/A
Efficacy: 98.6 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

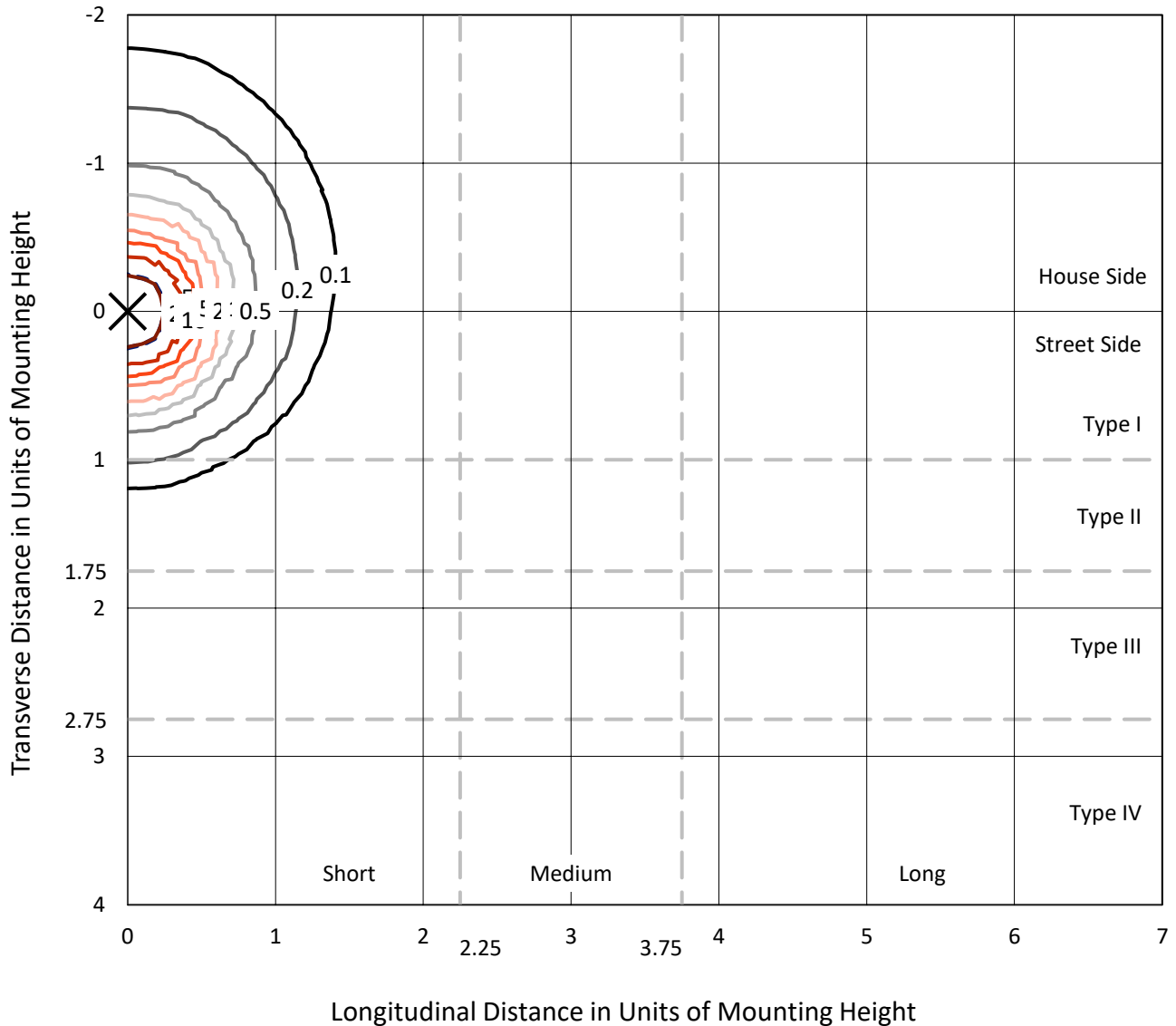
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

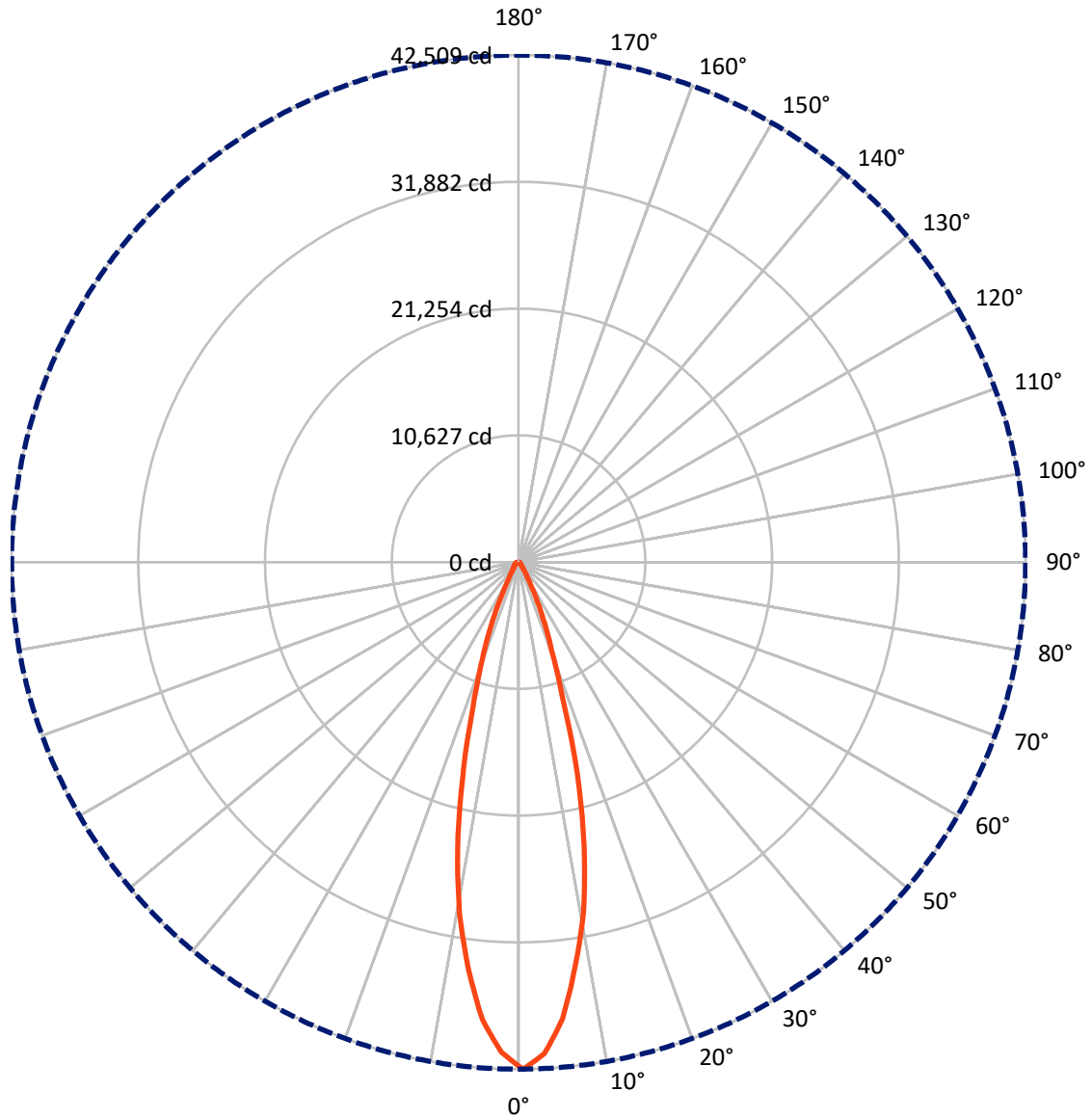
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 106.3 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	6361.0	0.0	6361.0
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	5703.1	0.0	5703.1
	% Fixture	47.3	0.0	47.3
Total	Lumens	12064.1	0.0	12064.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3430.8	28.4
10°-20°	5196.0	43.1
20°-30°	2192.7	18.2
30°-40°	571.9	4.7
40°-50°	289.3	2.4
50°-60°	189.1	1.6
60°-70°	113.3	0.9
70°-80°	59.6	0.5
80°-90°	21.5	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°	12064.1	100.0
0°-180°	12064.1	100.0



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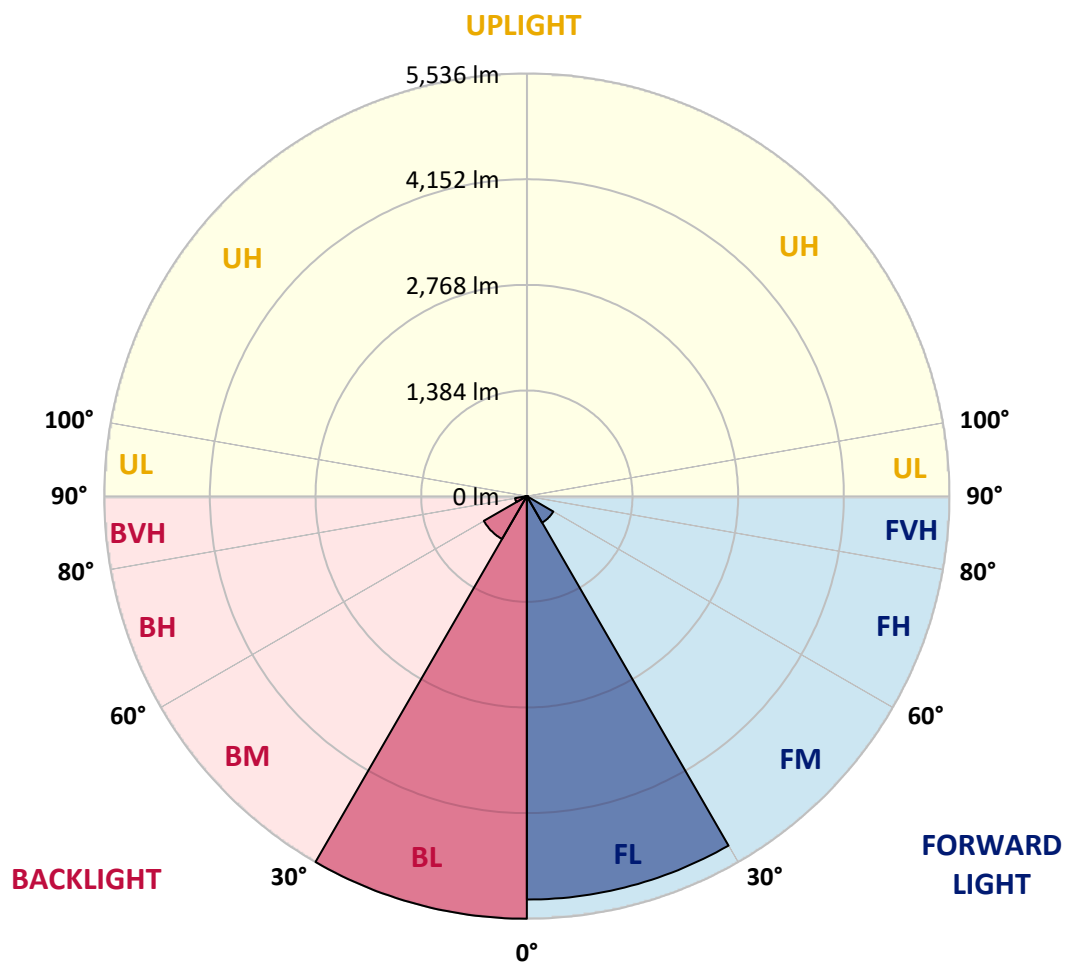
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5284.0	43.8			
FM (30°-60°)	400.2	3.3			
FH (60°-80°)	16.3	0.1			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	5535.5	45.9	B5		
BM (30°-60°)	650.0	5.4	B1/1000		
BH (60°-80°)	156.6	1.3	B1/500		G0/660
BVH (80°-90°)	18.9	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°	42508.7	42508.7	42508.7	42508.7	42508.7	42508.7	42508.7	42508.7	42508.7	42508.7
2.5°	41270.4	41293.4	41208.1	41392.3	41248.7	41633.5	41442.4	41740.5	41640.2	41806.9
5°	38452.4	38414.4	38390.0	38675.9	38593.3	39006.5	38742.3	38655.6	38923.8	38875.1
7.5°	34196.9	34297.1	34240.2	34314.8	34356.8	34828.2	34977.3	34860.7	34864.8	34932.6
10°	29834.4	29686.7	29476.7	29616.3	29911.6	30117.5	30034.9	30205.6	30167.7	30328.9
12.5°	24466.6	24583.1	24465.3	24340.6	24856.8	24799.9	24943.5	25037.0	24802.6	25324.2
15°	18429.6	18490.5	18634.1	18624.6	19021.6	19101.5	19082.6	19181.5	18998.6	19085.3
17.5°	11839.7	12045.7	12431.8	13084.8	13819.1	13904.5	13882.8	13801.5	13713.4	13615.9
20°	7952.8	7931.1	8070.6	8261.7	9781.8	10184.1	10172.0	9917.2	9548.7	9478.3
22.5°	5571.0	5611.6	5592.7	5782.4	6096.7	7206.3	7069.4	6810.7	6690.1	6611.5
25°	3664.8	3649.9	3744.7	3801.6	4071.2	4206.7	4686.3	4590.1	4404.5	4424.8
27.5°	2234.1	2253.1	2288.3	2337.1	2528.1	2484.7	2758.4	2795.0	2735.4	2671.7
30°	1371.1	1384.6	1413.1	1448.3	1514.7	1467.3	1543.1	1674.6	1652.9	1608.2
32.5°	930.8	932.1	952.4	966.0	957.9	913.1	937.5	1062.2	1064.9	1060.8
35°	669.3	669.3	688.2	699.1	676.1	639.5	643.5	720.8	754.6	761.4
37.5°	462.0	463.3	495.9	528.4	502.6	493.2	476.9	528.4	582.6	590.7
40°	350.9	349.5	365.8	390.2	392.9	375.3	380.7	413.2	468.8	475.5
42.5°	284.5	285.9	294.0	291.3	292.6	315.7	323.8	338.7	390.2	402.4
45°	239.8	241.2	245.2	231.7	226.3	261.5	272.3	280.4	323.8	338.7
47.5°	197.8	200.5	204.6	189.7	187.0	210.0	229.0	237.1	275.0	291.3
50°	142.3	145.0	159.9	151.7	159.9	165.3	191.0	203.2	229.0	250.6
52.5°	103.0	105.7	109.7	111.1	131.4	134.1	153.1	172.1	184.3	208.6
55°	81.3	84.0	81.3	78.6	96.2	111.1	117.9	138.2	147.7	176.1
57.5°	46.1	48.8	52.8	61.0	63.7	85.4	92.1	109.7	117.9	145.0
60°	8.1	9.5	14.9	36.6	44.7	54.2	69.1	84.0	94.8	113.8
62.5°	1.4	1.4	2.7	8.1	25.7	37.9	50.1	59.6	69.1	86.7
65°	0.0	0.0	1.4	2.7	6.8	21.7	27.1	35.2	47.4	62.3
67.5°	0.0	0.0	1.4	2.7	4.1	8.1	12.2	21.7	27.1	42.0
70°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	9.5	16.3	25.7
72.5°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	8.1	8.1	16.3
75°	0.0	0.0	1.4	2.7	4.1	6.8	8.1	8.1	6.8	6.8
77.5°	0.0	0.0	1.4	2.7	5.4	8.1	9.5	8.1	5.4	5.4
80°	0.0	0.0	2.7	4.1	6.8	9.5	12.2	9.5	5.4	2.7
82.5°	0.0	0.0	2.7	5.4	6.8	10.8	14.9	12.2	5.4	2.7
85°	0.0	0.0	1.4	4.1	8.1	10.8	14.9	10.8	5.4	1.4
87.5°	0.0	0.0	1.4	1.4	2.7	4.1	8.1	6.8	2.7	1.4
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°
42508.7	0°	42508.7	42508.7	42508.7	42508.7	42508.7	42508.7	42508.7	42508.7	42508.7
41491.2	2.5°	41729.7	41946.4	41991.1	41931.5	42018.2	41862.4	41743.2	41434.3	41248.7
38860.2	5°	39110.8	39078.3	39304.5	39379.1	39369.6	39250.3	39083.7	38896.7	38715.2
34801.1	7.5°	35017.9	35059.9	35265.8	35397.3	35330.9	35181.8	35066.7	34925.8	34803.8
30387.1	10°	30664.9	30376.3	30632.4	30632.4	30809.9	30388.5	30427.8	30072.8	30089.1
25314.7	12.5°	25401.4	25505.7	25547.7	25668.3	25461.0	25237.5	24963.8	24909.6	24740.3
18920.0	15°	19192.3	19490.4	19234.3	19671.9	19460.6	19227.5	19185.5	18765.5	18898.3
13722.9	17.5°	13655.2	13984.4	14087.4	14338.0	14145.6	14007.4	13832.7	13705.3	13695.8
9607.0	20°	9682.9	10013.4	10089.3	10390.1	10368.4	10325.0	10177.4	10016.1	9841.4
6539.7	22.5°	6638.6	6908.2	7160.2	7565.3	7558.5	7431.2	7416.3	7188.6	7192.7
4418.1	25°	4464.1	4660.6	4720.2	5134.7	5180.8	5167.3	5090.0	4878.7	4958.6
2698.8	27.5°	2701.5	2873.6	3075.4	3221.8	3359.9	3338.3	3261.0	3143.2	3091.7
1621.7	30°	1665.1	1742.3	1816.8	1992.9	2075.6	2118.9	2082.4	1972.6	1980.7
1067.6	32.5°	1090.6	1155.7	1209.8	1320.9	1364.3	1444.2	1429.3	1406.3	1379.2
768.2	35°	795.3	842.7	879.3	930.8	986.3	1054.0	1064.9	1055.4	1044.6
593.4	37.5°	607.0	655.7	697.7	719.4	762.8	815.6	845.4	844.0	835.9
483.7	40°	493.2	529.7	567.7	596.1	625.9	665.2	701.8	705.9	705.9
406.4	42.5°	411.9	443.0	481.0	510.8	532.4	569.0	607.0	609.7	607.0
344.1	45°	352.3	379.3	415.9	451.2	468.8	495.9	532.4	540.6	535.2
295.3	47.5°	306.2	330.6	361.7	399.7	418.6	443.0	476.9	486.4	485.0
254.7	50°	262.8	291.3	322.4	353.6	378.0	401.0	433.5	444.4	440.3
216.8	52.5°	231.7	257.4	284.5	318.4	346.8	367.2	392.9	411.9	406.4
182.9	55°	193.7	224.9	253.4	281.8	317.0	338.7	363.1	386.1	380.7
154.4	57.5°	168.0	193.7	226.3	252.0	287.2	313.0	337.3	361.7	360.4
126.0	60°	140.9	168.0	199.2	226.3	258.8	287.2	311.6	338.7	341.4
94.8	62.5°	111.1	143.6	170.7	201.9	234.4	265.5	287.2	314.3	318.4
71.8	65°	84.0	117.9	147.7	177.5	210.0	243.9	262.8	285.9	289.9
52.8	67.5°	62.3	90.8	126.0	153.1	187.0	219.5	237.1	256.1	262.8
32.5	70°	47.4	69.1	105.7	131.4	166.6	192.4	211.4	227.6	233.0
21.7	72.5°	29.8	54.2	85.4	112.4	143.6	166.6	180.2	189.7	197.8
12.2	75°	20.3	42.0	69.1	96.2	119.2	136.8	149.0	157.2	163.9
5.4	77.5°	12.2	32.5	56.9	79.9	94.8	108.4	120.6	126.0	130.1
4.1	80°	6.8	24.4	47.4	65.0	74.5	84.0	93.5	100.3	103.0
2.7	82.5°	4.1	19.0	37.9	50.1	54.2	63.7	73.2	77.2	77.2
1.4	85°	2.7	13.5	25.7	36.6	39.3	46.1	48.8	51.5	54.2
1.4	87.5°	2.7	8.1	16.3	20.3	21.7	24.4	25.7	28.5	31.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
42508.7
41111.9
38512.0
34390.6
29930.6
24585.8
18765.5
13443.8
9765.5
7114.1
4832.6
3047.0
1945.5
1369.7
1040.5
831.9
697.7
604.2
535.2
482.3
437.6
405.1
383.4
361.7
342.8
321.1
294.0
265.5
235.7
196.4
162.6
128.7
100.3
75.9
52.8
29.8
0.0

(END OF REPORT)