

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: P637493

Luminaire Tested: **IFLD-S-SA2C-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637493
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10892.8 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

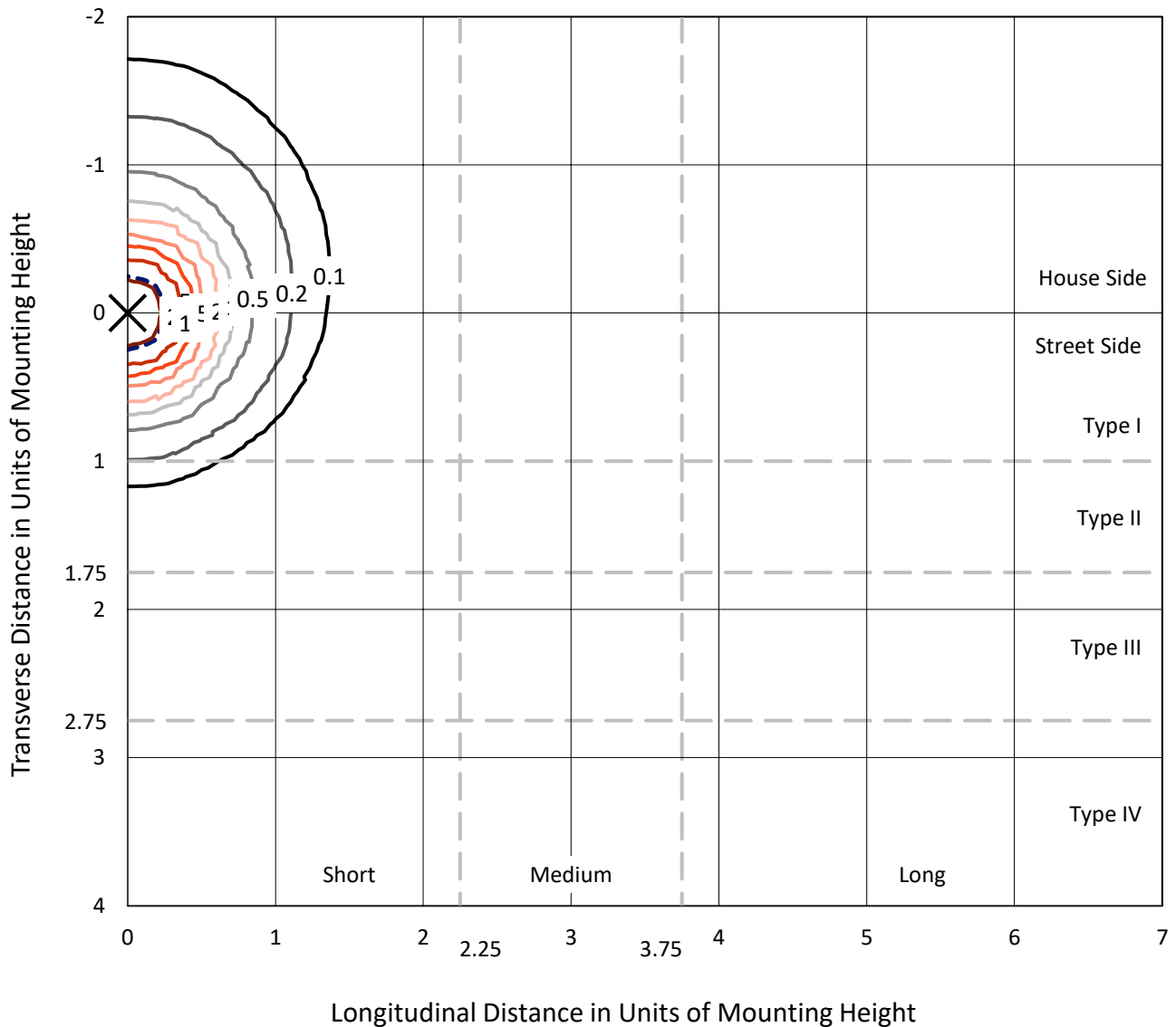
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

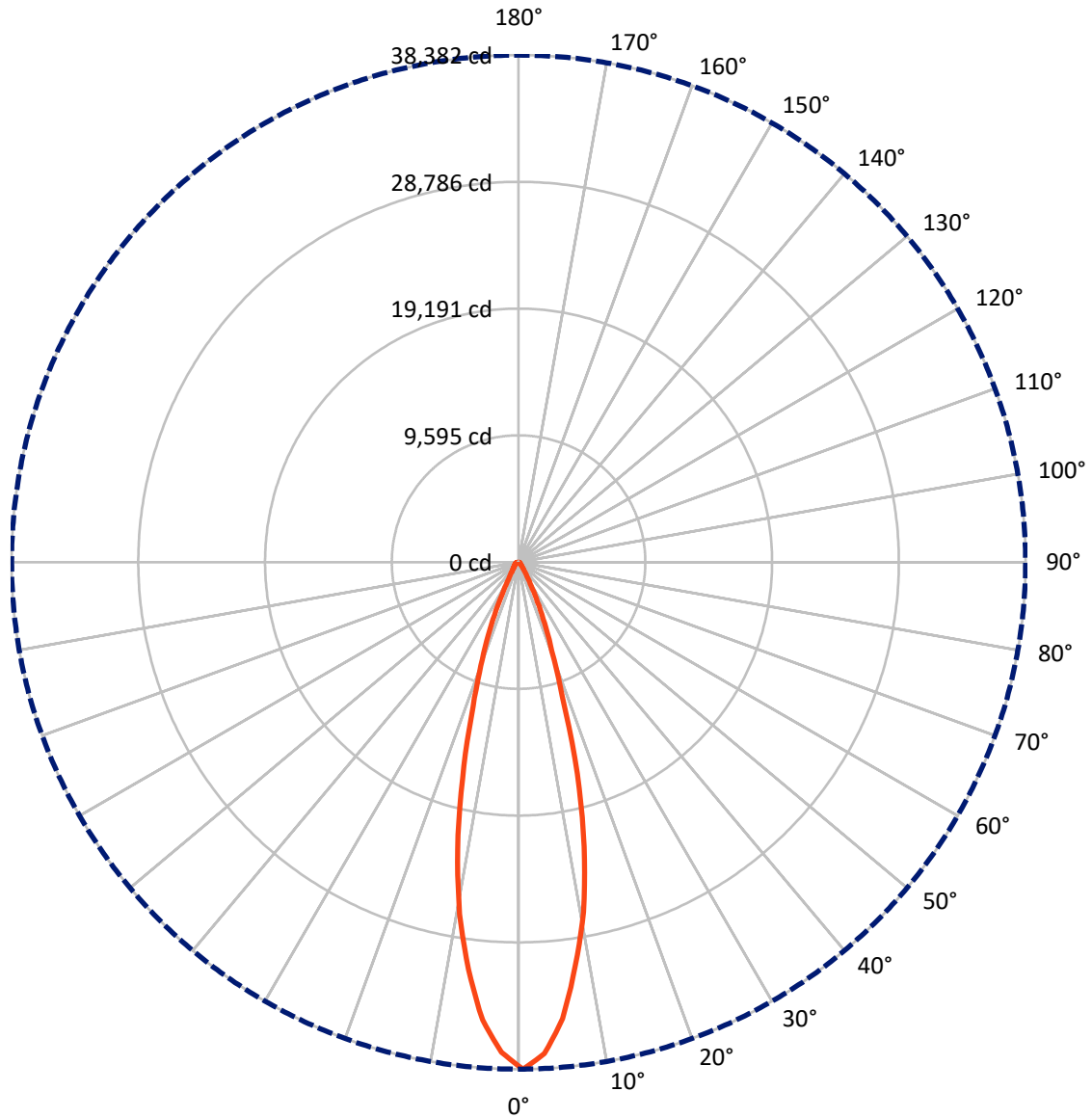
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 96 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	5743.4	0.0	5743.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	5149.4	0.0	5149.4
	% Fixture	47.3	0.0	47.3
Total	Lumens	10892.8	0.0	10892.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3097.7	28.4
10°-20°	4691.5	43.1
20°-30°	1979.8	18.2
30°-40°	516.4	4.7
40°-50°	261.2	2.4
50°-60°	170.7	1.6
60°-70°	102.3	0.9
70°-80°	53.8	0.5
80°-90°	19.4	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°	10892.8	100.0
0°-180°	10892.8	100.0



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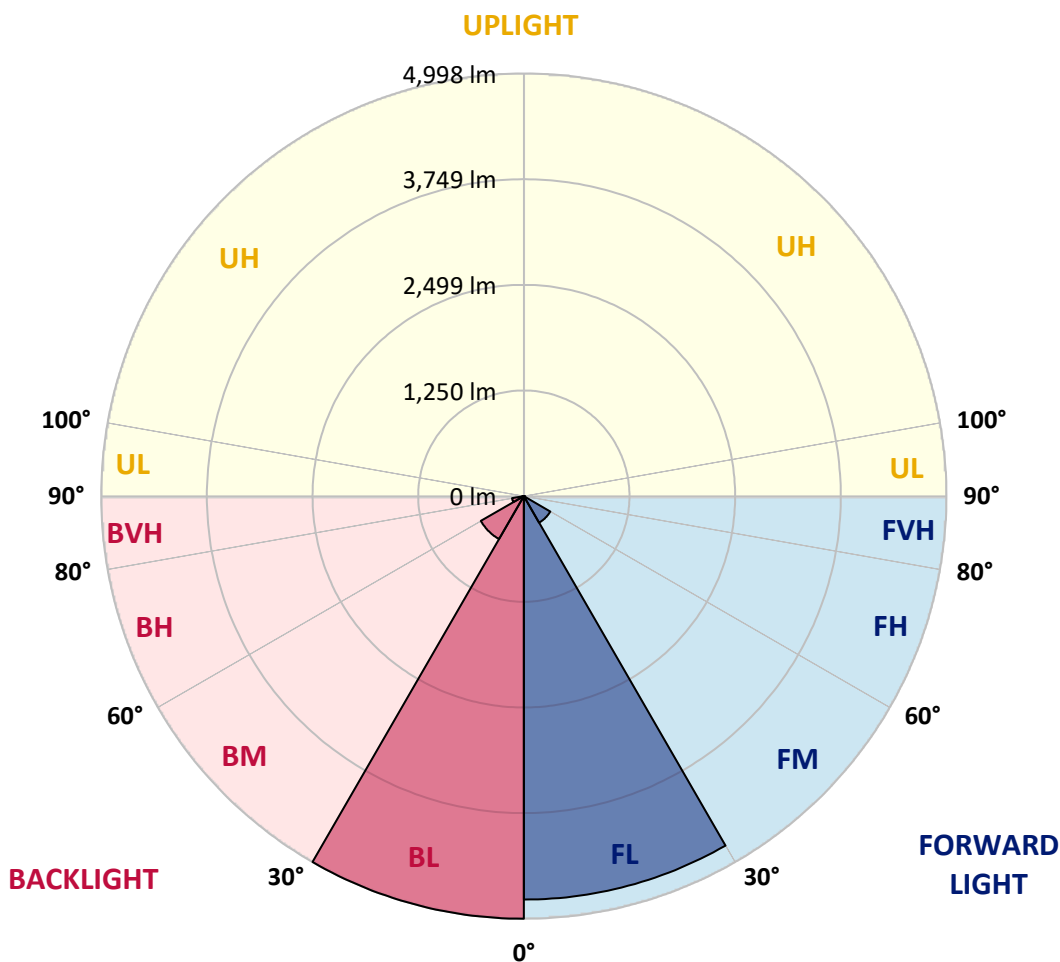
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4771.0	43.8			
FM (30°-60°)	361.3	3.3			
FH (60°-80°)	14.7	0.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	4998.1	45.9	B4/5000		
BM (30°-60°)	586.9	5.4	B1/1000		
BH (60°-80°)	141.4	1.3	B1/500		G0/660
BVH (80°-90°)	17.1	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°	38381.7	38381.7	38381.7	38381.7	38381.7	38381.7	38381.7	38381.7	38381.7	38381.7
2.5°	37263.6	37284.4	37207.3	37373.7	37244.0	37591.4	37418.9	37688.1	37597.5	37748.0
5°	34719.2	34684.9	34662.9	34921.0	34846.4	35219.5	34980.9	34902.6	35144.9	35100.8
7.5°	30876.8	30967.4	30916.0	30983.3	31021.2	31446.9	31581.4	31476.2	31479.9	31541.1
10°	26937.9	26804.5	26614.9	26740.9	27007.6	27193.5	27118.9	27273.0	27238.8	27384.4
12.5°	22091.2	22196.4	22090.0	21977.5	22443.5	22392.2	22521.8	22606.2	22394.6	22865.6
15°	16640.3	16695.3	16825.0	16816.4	17174.9	17247.0	17229.9	17319.2	17154.1	17232.4
17.5°	10690.3	10876.2	11224.8	11814.4	12477.5	12554.5	12535.0	12461.6	12382.0	12294.0
20°	7180.7	7161.1	7287.1	7459.6	8832.1	9195.4	9184.4	8954.4	8621.7	8558.1
22.5°	5030.1	5066.8	5049.7	5221.0	5504.8	6506.6	6383.1	6149.4	6040.6	5969.6
25°	3309.0	3295.5	3381.1	3432.5	3676.0	3798.3	4231.3	4144.5	3976.9	3995.2
27.5°	2017.2	2034.3	2066.1	2110.2	2282.6	2243.5	2490.6	2523.6	2469.8	2412.3
30°	1238.0	1250.2	1275.9	1307.7	1367.6	1324.8	1393.3	1512.0	1492.4	1452.0
32.5°	840.4	841.6	860.0	872.2	864.9	824.5	846.5	959.1	961.5	957.8
35°	604.3	604.3	621.4	631.2	610.4	577.4	581.1	650.8	681.4	687.5
37.5°	417.1	418.4	447.7	477.1	453.8	445.3	430.6	477.1	526.0	533.4
40°	316.8	315.6	330.3	352.3	354.8	338.8	343.7	373.1	423.3	429.4
42.5°	256.9	258.1	265.5	263.0	264.2	285.0	292.4	305.8	352.3	363.3
45°	216.5	217.7	221.4	209.2	204.3	236.1	245.9	253.2	292.4	305.8
47.5°	178.6	181.0	184.7	171.3	168.8	189.6	206.7	214.1	248.3	263.0
50°	128.4	130.9	144.3	137.0	144.3	149.2	172.5	183.5	206.7	226.3
52.5°	93.0	95.4	99.1	100.3	118.7	121.1	138.2	155.4	166.4	188.4
55°	73.4	75.8	73.4	71.0	86.9	100.3	106.4	124.8	133.3	159.0
57.5°	41.6	44.0	47.7	55.0	57.5	77.1	83.2	99.1	106.4	130.9
60°	7.3	8.6	13.5	33.0	40.4	48.9	62.4	75.8	85.6	102.8
62.5°	1.2	1.2	2.4	7.3	23.2	34.3	45.3	53.8	62.4	78.3
65°	0.0	0.0	1.2	2.4	6.1	19.6	24.5	31.8	42.8	56.3
67.5°	0.0	0.0	1.2	2.4	3.7	7.3	11.0	19.6	24.5	37.9
70°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	8.6	14.7	23.2
72.5°	0.0	0.0	1.2	2.4	3.7	4.9	6.1	7.3	7.3	14.7
75°	0.0	0.0	1.2	2.4	3.7	6.1	7.3	7.3	6.1	6.1
77.5°	0.0	0.0	1.2	2.4	4.9	7.3	8.6	7.3	4.9	4.9
80°	0.0	0.0	2.4	3.7	6.1	8.6	11.0	8.6	4.9	2.4
82.5°	0.0	0.0	2.4	4.9	6.1	9.8	13.5	11.0	4.9	2.4
85°	0.0	0.0	1.2	3.7	7.3	9.8	13.5	9.8	4.9	1.2
87.5°	0.0	0.0	1.2	1.2	2.4	3.7	7.3	6.1	2.4	1.2
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°
38381.7	0°	38381.7	38381.7	38381.7	38381.7	38381.7	38381.7	38381.7	38381.7	38381.7
37463.0	2.5°	37678.3	37874.0	37914.4	37860.5	37938.8	37798.2	37690.5	37411.6	37244.0
35087.4	5°	35313.7	35284.3	35488.6	35555.9	35547.3	35439.7	35289.2	35120.4	34956.5
31422.4	7.5°	31618.1	31656.1	31842.0	31960.7	31900.7	31766.2	31662.2	31535.0	31424.9
27437.0	10°	27687.7	27427.2	27658.4	27658.4	27818.6	27438.2	27473.7	27153.2	27167.8
22857.0	12.5°	22935.3	23029.5	23067.4	23176.3	22989.1	22787.3	22540.2	22491.2	22338.3
17083.1	15°	17329.0	17598.1	17366.9	17762.0	17571.2	17360.8	17322.9	16943.7	17063.5
12390.6	17.5°	12329.4	12626.7	12719.7	12946.0	12772.3	12647.5	12489.7	12374.7	12366.1
8674.3	20°	8742.8	9041.3	9109.8	9381.3	9361.8	9322.6	9189.3	9043.7	8885.9
5904.8	22.5°	5994.1	6237.5	6465.0	6830.8	6824.7	6709.7	6696.2	6490.7	6494.4
3989.1	25°	4030.7	4208.1	4261.9	4636.2	4677.8	4665.6	4595.9	4405.0	4477.2
2436.8	27.5°	2439.2	2594.6	2776.8	2909.0	3033.7	3014.2	2944.4	2838.0	2791.5
1464.3	30°	1503.4	1573.1	1640.4	1799.4	1874.1	1913.2	1880.2	1781.1	1788.4
963.9	32.5°	984.7	1043.5	1092.4	1192.7	1231.8	1304.0	1290.6	1269.8	1245.3
693.6	35°	718.1	760.9	793.9	840.4	890.5	951.7	961.5	952.9	943.1
535.8	37.5°	548.0	592.1	630.0	649.6	688.7	736.4	763.3	762.1	754.8
436.7	40°	445.3	478.3	512.6	538.2	565.2	600.6	633.7	637.3	637.3
367.0	42.5°	371.9	400.0	434.3	461.2	480.7	513.8	548.0	550.5	548.0
310.7	45°	318.1	342.5	375.5	407.4	423.3	447.7	480.7	488.1	483.2
266.7	47.5°	276.5	298.5	326.6	360.9	378.0	400.0	430.6	439.2	437.9
230.0	50°	237.3	263.0	291.1	319.3	341.3	362.1	391.4	401.2	397.6
195.7	52.5°	209.2	232.4	256.9	287.5	313.2	331.5	354.8	371.9	367.0
165.1	55°	174.9	203.1	228.8	254.4	286.2	305.8	327.8	348.6	343.7
139.5	57.5°	151.7	174.9	204.3	227.5	259.3	282.6	304.6	326.6	325.4
113.8	60°	127.2	151.7	179.8	204.3	233.6	259.3	281.4	305.8	308.3
85.6	62.5°	100.3	129.7	154.1	182.3	211.6	239.8	259.3	283.8	287.5
64.8	65°	75.8	106.4	133.3	160.2	189.6	220.2	237.3	258.1	261.8
47.7	67.5°	56.3	82.0	113.8	138.2	168.8	198.2	214.1	231.2	237.3
29.4	70°	42.8	62.4	95.4	118.7	150.5	173.7	190.8	205.5	210.4
19.6	72.5°	26.9	48.9	77.1	101.5	129.7	150.5	162.7	171.3	178.6
11.0	75°	18.3	37.9	62.4	86.9	107.6	123.6	134.6	141.9	148.0
4.9	77.5°	11.0	29.4	51.4	72.2	85.6	97.9	108.9	113.8	117.4
3.7	80°	6.1	22.0	42.8	58.7	67.3	75.8	84.4	90.5	93.0
2.4	82.5°	3.7	17.1	34.3	45.3	48.9	57.5	66.1	69.7	69.7
1.2	85°	2.4	12.2	23.2	33.0	35.5	41.6	44.0	46.5	48.9
1.2	87.5°	2.4	7.3	14.7	18.3	19.6	22.0	23.2	25.7	28.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
38381.7
37120.5
34773.0
31051.8
27024.7
22198.9
16943.7
12138.6
8817.4
6423.4
4363.4
2751.2
1756.6
1236.7
939.5
751.1
630.0
545.6
483.2
435.5
395.1
365.8
346.2
326.6
309.5
289.9
265.5
239.8
212.9
177.4
146.8
116.2
90.5
68.5
47.7
26.9
0.0

(END OF REPORT)