

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: P637497

Luminaire Tested: **IFLD-S-SA3B-830-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637497
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13040.6 lumens
Efficiency: N/A
Efficacy: 106.5 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

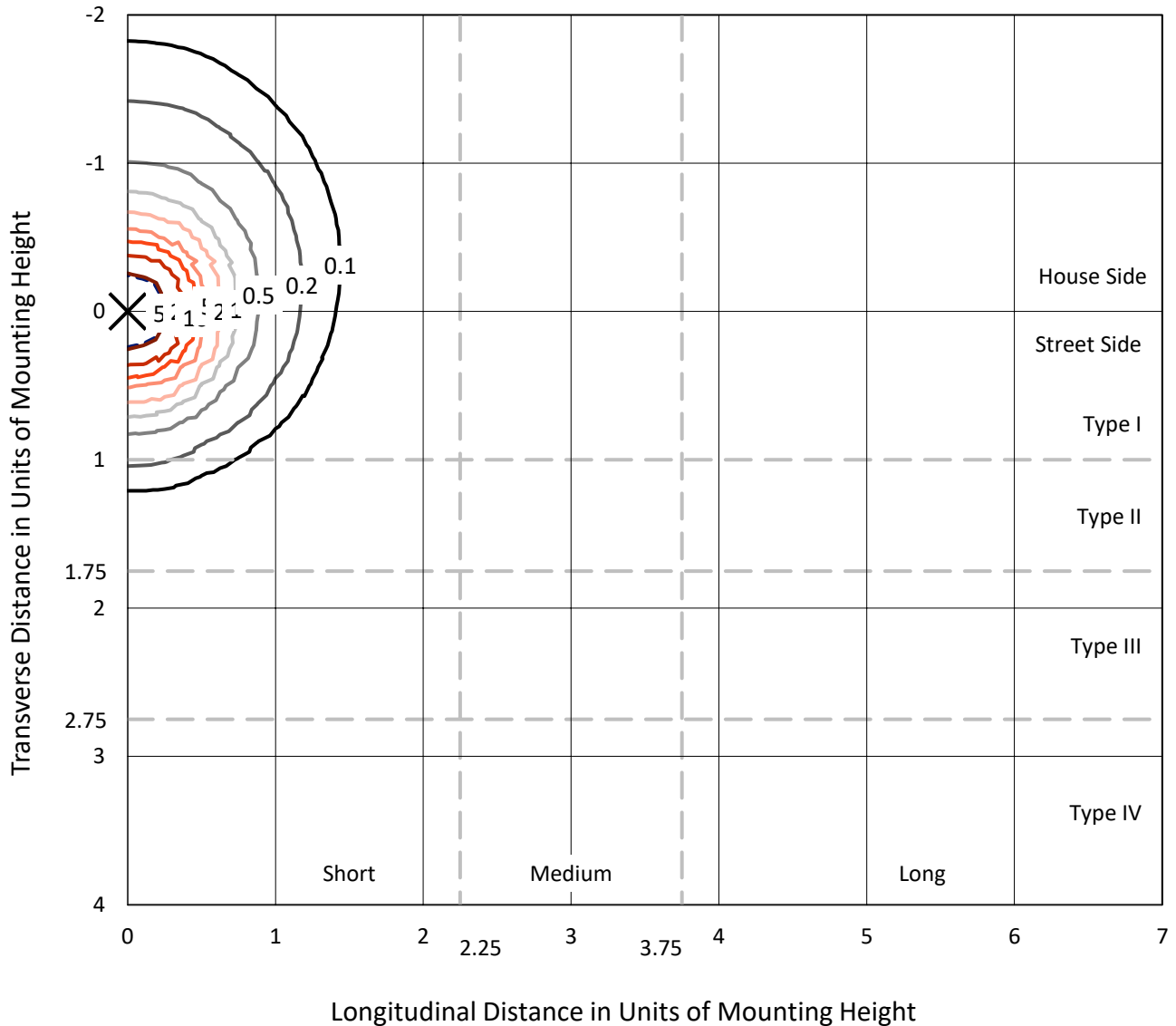
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

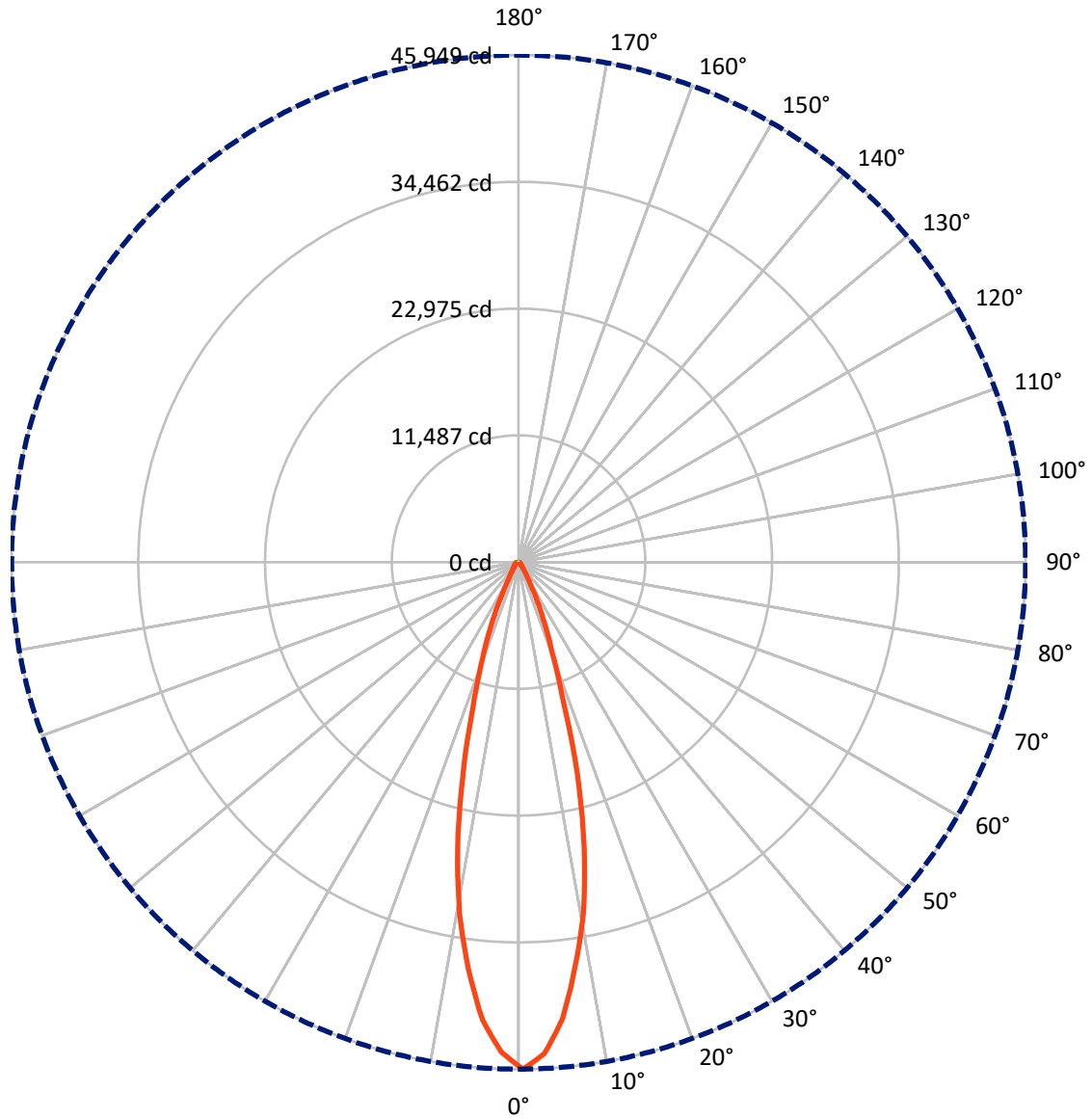
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 114.9 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	6875.9	0.0	6875.9
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	6164.7	0.0	6164.7
	% Fixture	47.3	0.0	47.3
Total	Lumens	13040.6	0.0	13040.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3708.5	28.4
10°-20°	5616.5	43.1
20°-30°	2370.2	18.2
30°-40°	618.2	4.7
40°-50°	312.7	2.4
50°-60°	204.4	1.6
60°-70°	122.4	0.9
70°-80°	64.4	0.5
80°-90°	23.3	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°	13040.6	100.0
0°-180°	13040.6	100.0



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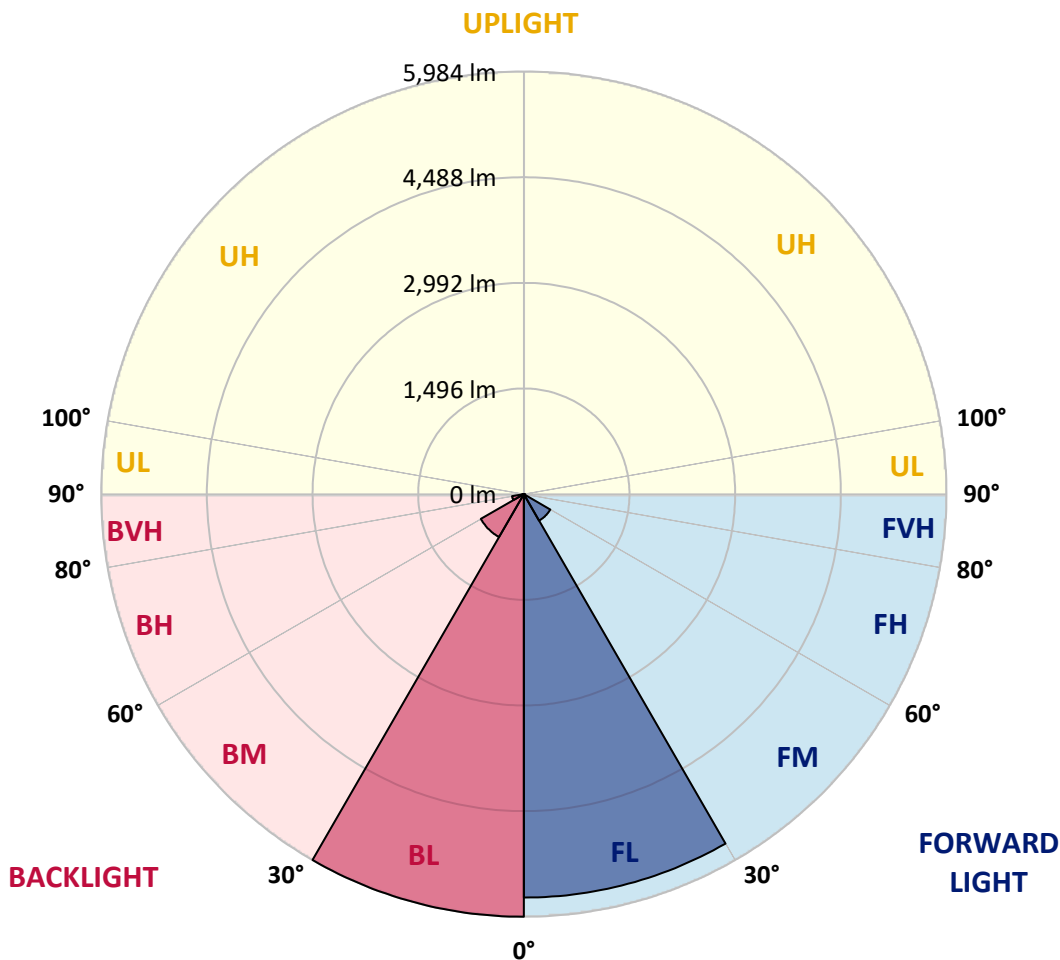
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5711.7	43.8			
FM (30°-60°)	432.6	3.3			
FH (60°-80°)	17.6	0.1			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	5983.6	45.9	B5		
BM (30°-60°)	702.6	5.4	B1/1000		
BH (60°-80°)	169.2	1.3	B1/500		G0/660
BVH (80°-90°)	20.4	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°	45949.4	45949.4	45949.4	45949.4	45949.4	45949.4	45949.4	45949.4	45949.4	45949.4
2.5°	44610.9	44635.8	44543.5	44742.7	44587.4	45003.3	44796.8	45119.0	45010.7	45190.8
5°	41564.8	41523.7	41497.4	41806.4	41717.1	42163.7	41878.1	41784.4	42074.4	42021.7
7.5°	36964.8	37073.2	37011.7	37092.2	37137.6	37647.3	37808.4	37682.4	37686.8	37760.0
10°	32249.2	32089.6	31862.6	32013.4	32332.7	32555.3	32466.0	32650.5	32609.5	32783.8
12.5°	26447.0	26572.9	26445.5	26310.8	26868.7	26807.2	26962.5	27063.5	26810.2	27374.0
15°	19921.3	19987.2	20142.4	20132.1	20561.2	20647.6	20627.1	20734.0	20536.3	20630.1
17.5°	12798.1	13020.7	13438.0	14143.9	14937.7	15029.9	15006.5	14918.6	14823.4	14718.0
20°	8596.5	8573.0	8723.9	8930.4	10573.5	11008.5	10995.3	10720.0	10321.6	10245.5
22.5°	6021.9	6065.9	6045.4	6250.4	6590.1	7789.5	7641.6	7361.9	7231.6	7146.6
25°	3961.4	3945.3	4047.8	4109.3	4400.7	4547.2	5065.6	4961.6	4761.0	4783.0
27.5°	2414.9	2435.4	2473.5	2526.2	2732.7	2685.8	2981.7	3021.2	2956.8	2887.9
30°	1482.0	1496.7	1527.4	1565.5	1637.3	1586.0	1668.0	1810.1	1786.7	1738.3
32.5°	1006.1	1007.6	1029.5	1044.2	1035.4	987.1	1013.4	1148.1	1151.1	1146.7
35°	723.5	723.5	744.0	755.7	730.8	691.2	695.6	779.1	815.7	823.0
37.5°	499.4	500.9	536.0	571.1	543.3	533.1	515.5	571.1	629.7	638.5
40°	379.3	377.8	395.4	421.8	424.7	405.7	411.5	446.7	506.7	514.0
42.5°	307.5	309.0	317.8	314.9	316.3	341.2	350.0	366.1	421.8	434.9
45°	259.2	260.7	265.1	250.4	244.6	282.6	294.4	303.1	350.0	366.1
47.5°	213.8	216.7	221.1	205.0	202.1	227.0	247.5	256.3	297.3	314.9
50°	153.8	156.7	172.8	164.0	172.8	178.7	206.5	219.7	247.5	270.9
52.5°	111.3	114.2	118.6	120.1	142.1	145.0	165.5	186.0	199.2	225.5
55°	87.9	90.8	87.9	84.9	104.0	120.1	127.4	149.4	159.6	190.4
57.5°	49.8	52.7	57.1	65.9	68.8	92.3	99.6	118.6	127.4	156.7
60°	8.8	10.3	16.1	39.5	48.3	58.6	74.7	90.8	102.5	123.0
62.5°	1.5	1.5	2.9	8.8	27.8	41.0	54.2	64.4	74.7	93.7
65°	0.0	0.0	1.5	2.9	7.3	23.4	29.3	38.1	51.3	67.4
67.5°	0.0	0.0	1.5	2.9	4.4	8.8	13.2	23.4	29.3	45.4
70°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	10.3	17.6	27.8
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	8.8	8.8	17.6
75°	0.0	0.0	1.5	2.9	4.4	7.3	8.8	8.8	7.3	7.3
77.5°	0.0	0.0	1.5	2.9	5.9	8.8	10.3	8.8	5.9	5.9
80°	0.0	0.0	2.9	4.4	7.3	10.3	13.2	10.3	5.9	2.9
82.5°	0.0	0.0	2.9	5.9	7.3	11.7	16.1	13.2	5.9	2.9
85°	0.0	0.0	1.5	4.4	8.8	11.7	16.1	11.7	5.9	1.5
87.5°	0.0	0.0	1.5	1.5	2.9	4.4	8.8	7.3	2.9	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°
45949.4	0°	45949.4	45949.4	45949.4	45949.4	45949.4	45949.4	45949.4	45949.4	45949.4
44849.6	2.5°	45107.3	45341.6	45390.0	45325.5	45419.3	45250.8	45122.0	44788.1	44587.4
42005.6	5°	42276.5	42241.3	42485.9	42566.5	42556.2	42427.3	42247.2	42045.1	41848.9
37618.0	7.5°	37852.3	37897.7	38120.3	38262.4	38190.6	38029.5	37905.0	37752.7	37620.9
32846.7	10°	33146.9	32835.0	33111.8	33111.8	33303.6	32848.2	32890.7	32507.0	32524.5
27363.7	12.5°	27457.5	27570.2	27615.6	27746.0	27521.9	27280.3	26984.4	26925.9	26742.8
20451.4	15°	20745.8	21067.9	20791.2	21264.2	21035.7	20783.8	20738.4	20284.5	20428.0
14833.7	17.5°	14760.5	15116.3	15227.6	15498.5	15290.6	15141.2	14952.3	14814.6	14804.4
10384.6	20°	10466.6	10823.9	10906.0	11231.1	11207.6	11160.8	11001.1	10826.9	10638.0
7069.0	22.5°	7175.9	7467.4	7739.8	8177.6	8170.3	8032.6	8016.5	7770.5	7774.9
4775.7	25°	4825.4	5037.8	5102.2	5550.4	5600.2	5585.5	5502.0	5273.6	5360.0
2917.2	27.5°	2920.2	3106.2	3324.4	3482.5	3631.9	3608.5	3525.0	3397.6	3341.9
1753.0	30°	1799.8	1883.3	1963.9	2154.2	2243.6	2290.4	2250.9	2132.3	2141.1
1154.0	32.5°	1178.9	1249.2	1307.8	1427.9	1474.7	1561.1	1545.0	1520.1	1490.8
830.4	35°	859.6	910.9	950.4	1006.1	1066.1	1139.4	1151.1	1140.8	1129.1
641.4	37.5°	656.1	708.8	754.2	777.6	824.5	881.6	913.8	912.4	903.6
522.8	40°	533.1	572.6	613.6	644.4	676.6	719.1	758.6	763.0	763.0
439.3	42.5°	445.2	478.9	519.9	552.1	575.5	615.1	656.1	659.0	656.1
372.0	45°	380.8	410.1	449.6	487.7	506.7	536.0	575.5	584.3	578.5
319.3	47.5°	331.0	357.3	391.0	432.0	452.5	478.9	515.5	525.7	524.3
275.3	50°	284.1	314.9	348.5	382.2	408.6	433.5	468.6	480.3	476.0
234.3	52.5°	250.4	278.3	307.5	344.2	374.9	396.9	424.7	445.2	439.3
197.7	55°	209.4	243.1	273.9	304.6	342.7	366.1	392.5	417.4	411.5
167.0	57.5°	181.6	209.4	244.6	272.4	310.5	338.3	364.7	391.0	389.6
136.2	60°	152.3	181.6	215.3	244.6	279.7	310.5	336.8	366.1	369.0
102.5	62.5°	120.1	155.2	184.5	218.2	253.4	287.0	310.5	339.8	344.2
77.6	65°	90.8	127.4	159.6	191.8	227.0	263.6	284.1	309.0	313.4
57.1	67.5°	67.4	98.1	136.2	165.5	202.1	237.2	256.3	276.8	284.1
35.1	70°	51.3	74.7	114.2	142.1	180.1	208.0	228.5	246.0	251.9
23.4	72.5°	32.2	58.6	92.3	121.6	155.2	180.1	194.8	205.0	213.8
13.2	75°	22.0	45.4	74.7	104.0	128.9	147.9	161.1	169.9	177.2
5.9	77.5°	13.2	35.1	61.5	86.4	102.5	117.2	130.3	136.2	140.6
4.4	80°	7.3	26.4	51.3	70.3	80.5	90.8	101.0	108.4	111.3
2.9	82.5°	4.4	20.5	41.0	54.2	58.6	68.8	79.1	83.5	83.5
1.5	85°	2.9	14.6	27.8	39.5	42.5	49.8	52.7	55.7	58.6
1.5	87.5°	2.9	8.8	17.6	22.0	23.4	26.4	27.8	30.8	33.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
45949.4
44439.5
41629.2
37174.3
32353.2
26575.8
20284.5
14532.0
10555.9
7690.0
5223.8
3293.6
2103.0
1480.6
1124.7
899.2
754.2
653.2
578.5
521.4
473.0
437.9
414.4
391.0
370.5
347.1
317.8
287.0
254.8
212.3
175.7
139.1
108.4
82.0
57.1
32.2
0.0

(END OF REPORT)