

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: P638376

Luminaire Tested: **IFLD-M-SA4A-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638376
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12394.3 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

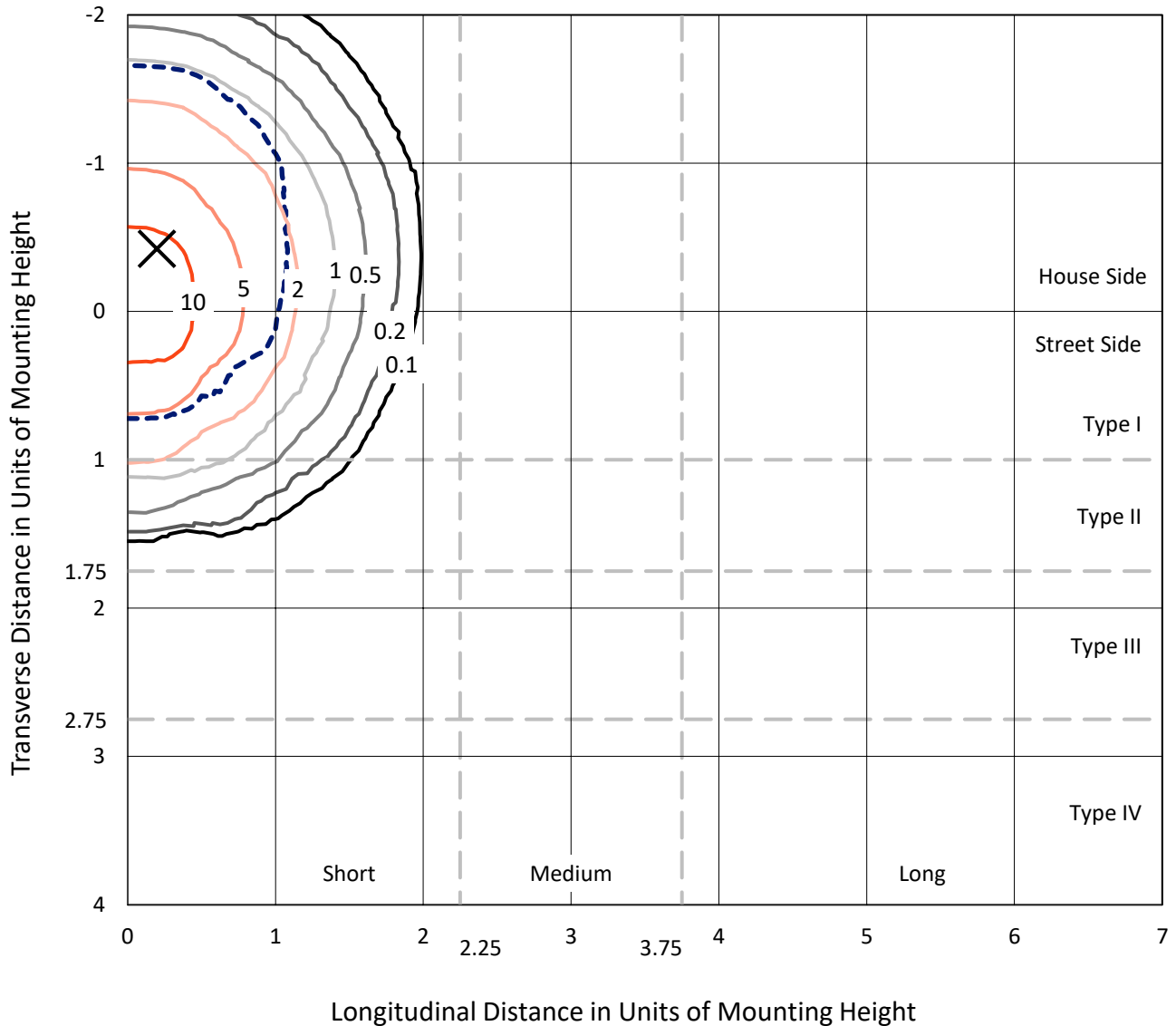
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

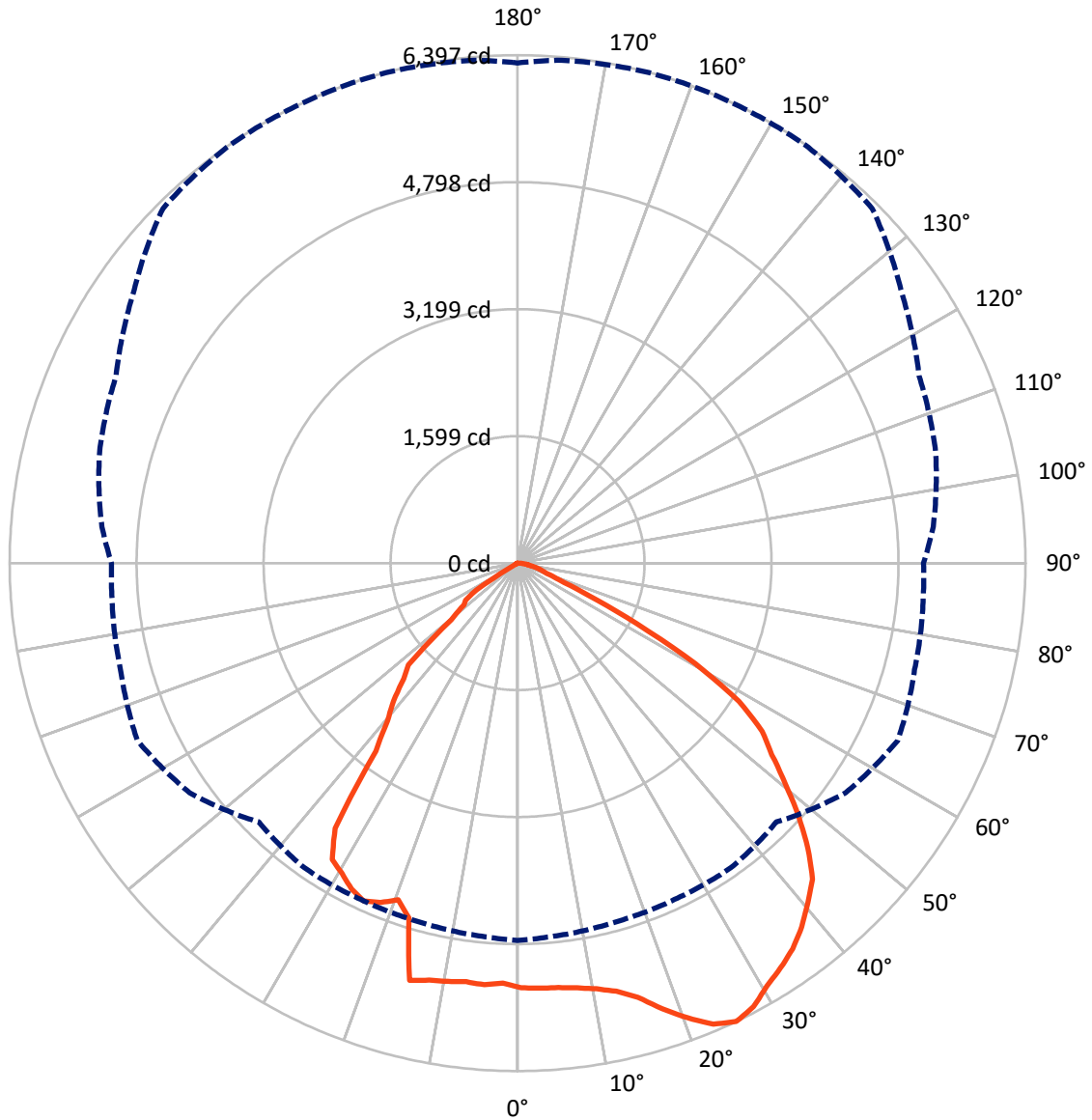
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7673.3	0.0	7673.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4721.0	0.0	4721.0
	% Fixture	38.1	0.0	38.1
Total	Lumens	12394.3	0.0	12394.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.1	4.1
10°-20°	1566.6	12.6
20°-30°	2476.7	20.0
30°-40°	2797.7	22.6
40°-50°	2620.1	21.1
50°-60°	1806.4	14.6
60°-70°	485.3	3.9
70°-80°	101.1	0.8
80°-90°	27.4	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°	12394.3	100.0
0°-180°	12394.3	100.0



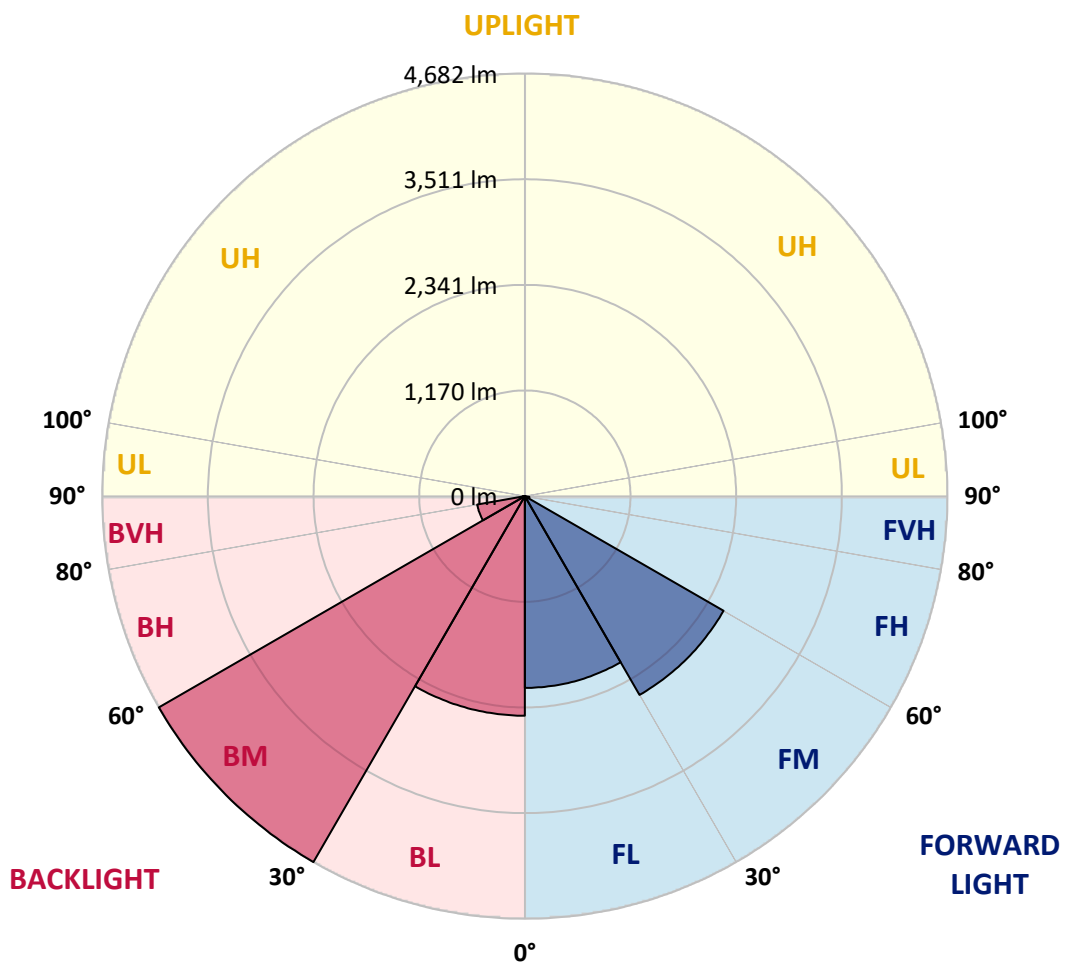
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2124.0	17.1			
FM (30°-60°)	2542.3	20.5			
FH (60°-80°)	50.9	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	2432.4	19.6	B3/2500		
BM (30°-60°)	4681.8	37.8	B3/5000		
BH (60°-80°)	535.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	23.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5347.9	5347.9	5347.9	5347.9	5347.9	5347.9	5347.9	5347.9	5347.9	5347.9
2.5°	5371.6	5337.0	5304.2	5293.3	5338.8	5388.0	5357.0	5358.8	5347.9	5368.0
5°	5411.7	5364.3	5342.5	5326.1	5333.3	5384.3	5340.6	5357.0	5338.8	5362.5
7.5°	5397.1	5364.3	5342.5	5311.5	5335.2	5395.3	5353.4	5355.2	5346.1	5368.0
10°	5388.0	5364.3	5337.0	5340.6	5368.0	5419.0	5386.2	5404.4	5391.6	5404.4
12.5°	5409.8	5384.3	5369.8	5369.8	5393.5	5451.7	5435.3	5451.7	5446.3	5457.2
15°	5204.0	5227.7	5366.1	5428.1	5475.4	5533.7	5526.4	5542.8	5546.5	5562.9
17.5°	4389.8	4366.1	4355.2	4674.0	5521.0	5701.3	5695.8	5694.0	5675.8	5663.0
20°	4497.3	4488.2	4475.4	4499.1	4593.8	5788.7	5825.1	5601.1	5535.5	5530.1
22.5°	4668.5	4653.9	4606.6	4608.4	4637.5	5032.8	5644.8	5440.8	5419.0	5406.2
25°	4752.3	4723.1	4684.9	4674.0	4683.1	4610.2	5041.9	5284.2	5176.7	5127.5
27.5°	4604.7	4606.6	4575.6	4604.7	4570.1	4242.3	4058.3	4978.2	4974.5	4952.7
30°	4493.6	4488.2	4451.7	4488.2	4249.6	3883.4	3805.1	4643.0	4604.7	4575.6
32.5°	4153.0	4156.7	4262.3	4404.4	4012.8	3723.1	3486.3	4147.5	4510.0	4493.6
35°	2970.9	2978.1	3353.4	4054.7	3653.9	3404.4	3386.2	3584.7	4360.7	4368.0
37.5°	2859.8	2859.8	2850.6	2965.4	3371.6	3275.1	3311.5	3291.4	3994.5	4012.8
40°	2779.6	2763.2	2750.5	2570.1	2344.3	3184.0	3209.5	3118.4	3776.0	3779.6
42.5°	2683.1	2664.9	2668.5	2335.2	2098.4	2958.1	2887.1	2765.0	3411.7	3415.3
45°	2506.4	2537.3	2559.2	2043.7	2025.5	2112.9	2663.0	2586.5	3165.8	3233.2
47.5°	1275.0	1302.4	1998.2	1879.8	1921.7	1878.0	2249.5	2251.4	2633.9	2857.9
50°	1156.7	1149.4	1151.2	1096.5	1774.1	1519.1	1626.6	2063.8	2109.3	2429.9
52.5°	1078.3	1076.5	965.4	857.9	1114.8	1337.0	1180.3	1493.6	1568.3	2058.3
55°	797.8	856.1	761.4	806.9	697.6	1071.0	1065.6	1347.9	1373.4	1650.3
57.5°	7.3	9.1	21.9	613.8	482.7	535.5	735.9	919.9	965.4	1286.0
60°	1.8	3.6	9.1	18.2	313.3	329.7	491.8	531.9	599.3	766.9
62.5°	0.0	0.0	3.6	9.1	16.4	134.8	156.6	171.2	264.1	391.6
65°	0.0	0.0	1.8	5.5	9.1	21.9	38.3	80.1	114.8	142.1
67.5°	0.0	0.0	1.8	3.6	7.3	10.9	21.9	31.0	49.2	83.8
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	21.9	29.1	41.9
72.5°	0.0	0.0	1.8	3.6	3.6	10.9	10.9	16.4	21.9	27.3
75°	0.0	0.0	1.8	1.8	3.6	7.3	10.9	12.8	14.6	21.9
77.5°	0.0	0.0	1.8	3.6	5.5	7.3	9.1	14.6	12.8	12.8
80°	0.0	0.0	1.8	5.5	5.5	9.1	10.9	14.6	9.1	9.1
82.5°	0.0	0.0	1.8	7.3	5.5	18.2	18.2	20.0	7.3	7.3
85°	0.0	0.0	5.5	3.6	10.9	18.2	16.4	10.9	9.1	5.5
87.5°	0.0	0.0	1.8	1.8	3.6	5.5	12.8	10.9	3.6	3.6
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°
5347.9	0°	5347.9	5347.9	5347.9	5347.9	5347.9	5347.9	5347.9	5347.9	5347.9
5315.1	2.5°	5388.0	5364.3	5413.5	5408.0	5384.3	5373.4	5360.7	5349.7	5269.6
5318.8	5°	5389.8	5353.4	5413.5	5402.6	5398.9	5380.7	5369.8	5386.2	5313.3
5333.3	7.5°	5389.8	5353.4	5419.0	5422.6	5417.1	5402.6	5400.7	5411.7	5351.6
5358.8	10°	5426.2	5411.7	5466.3	5471.8	5464.5	5460.8	5451.7	5444.5	5380.7
5446.3	12.5°	5502.7	5473.6	5535.5	5551.9	5546.5	5555.6	5533.7	5544.6	5479.1
5535.5	15°	5595.6	5597.5	5644.8	5681.2	5677.6	5706.8	5674.0	5703.1	5655.7
5637.5	17.5°	5737.7	5757.8	5825.1	5879.8	5899.8	5921.7	5899.8	5908.9	5841.5
5524.6	20°	5588.4	5663.0	5987.3	6087.4	6129.3	6149.4	6112.9	6123.9	6056.5
5386.2	22.5°	5453.6	5550.1	5837.9	6151.2	6280.5	6320.6	6307.8	6306.0	6280.5
5112.9	25°	5255.0	5449.9	5579.2	5910.8	6317.0	6389.8	6397.1	6395.3	6357.0
4945.4	27.5°	5010.9	5054.7	5389.8	5592.0	6061.9	6338.8	6327.9	6275.1	6224.1
4597.5	30°	4699.5	4898.0	5049.2	5371.6	5732.3	6182.2	6182.2	6142.1	6089.3
4473.6	32.5°	4541.0	4797.8	4938.1	5054.7	5362.5	6007.3	6080.2	6038.3	5996.4
4377.1	35°	4457.2	4495.5	4823.3	4929.0	5189.4	5670.3	5965.4	5923.5	5892.5
4120.2	37.5°	4273.2	4362.5	4515.5	4797.8	4878.0	5395.3	5812.4	5790.5	5754.1
3786.9	40°	3863.4	4102.0	4337.0	4604.7	4688.5	5041.9	5626.6	5635.7	5586.5
3431.7	42.5°	3621.1	3783.2	4151.2	4331.5	4557.4	4814.2	5446.3	5460.8	5426.2
3251.4	45°	3337.0	3517.3	3776.0	4103.8	4411.7	4500.9	5127.5	5280.5	5251.4
2892.5	47.5°	3076.5	3222.2	3539.2	3870.7	4211.3	4198.6	4761.4	5049.2	5009.1
2617.5	50°	2706.7	2961.8	3111.1	3415.3	3923.5	3958.1	4371.6	4777.8	4745.0
2224.0	52.5°	2282.3	2602.9	2888.9	3167.6	3632.1	3714.0	4009.1	4500.9	4479.1
1699.5	55°	1994.5	2227.7	2550.1	2774.1	3278.7	3497.3	3737.7	4236.8	4225.9
1397.1	57.5°	1418.9	1868.9	2134.8	2448.1	2714.0	3109.3	3287.8	3699.5	3597.5
774.1	60°	961.8	1173.0	1497.3	1834.2	2012.8	2408.0	2573.8	2903.5	2876.1
462.7	62.5°	508.2	703.1	934.4	1103.8	1233.2	1617.5	1686.7	2041.9	2032.8
185.8	65°	224.0	296.9	506.4	593.8	726.8	905.3	965.4	1092.9	1061.9
91.1	67.5°	116.6	176.7	286.0	351.5	442.6	510.0	559.2	599.3	624.8
60.1	70°	71.0	129.3	176.7	244.1	304.2	358.8	397.1	451.7	484.5
31.0	72.5°	52.8	82.0	122.0	187.6	220.4	284.2	322.4	362.5	391.6
25.5	75°	29.1	54.6	98.4	147.5	176.7	231.3	265.9	293.3	302.4
14.6	77.5°	18.2	41.9	82.0	114.8	138.4	187.6	178.5	204.0	225.9
10.9	80°	12.8	31.0	63.8	94.7	96.5	120.2	142.1	163.9	178.5
7.3	82.5°	9.1	25.5	47.4	72.9	63.8	92.9	111.1	127.5	92.9
5.5	85°	7.3	18.2	23.7	43.7	36.4	65.6	56.5	54.6	36.4
3.6	87.5°	5.5	9.1	16.4	20.0	14.6	14.6	18.2	21.9	18.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5347.9
5214.9
5251.4
5282.3
5327.9
5420.8
5577.4
5783.3
6009.1
6198.6
6298.7
6184.0
6069.2
5961.8
5848.8
5717.7
5575.6
5422.6
5255.0
5038.3
4750.5
4493.6
4238.6
3586.5
2878.0
2034.6
1049.2
624.8
486.3
397.1
296.9
229.5
180.3
67.4
36.4
18.2
0.0

(END OF REPORT)