

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: P638204

Luminaire Tested: **IFLD-M-SA4C-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638204
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22370 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

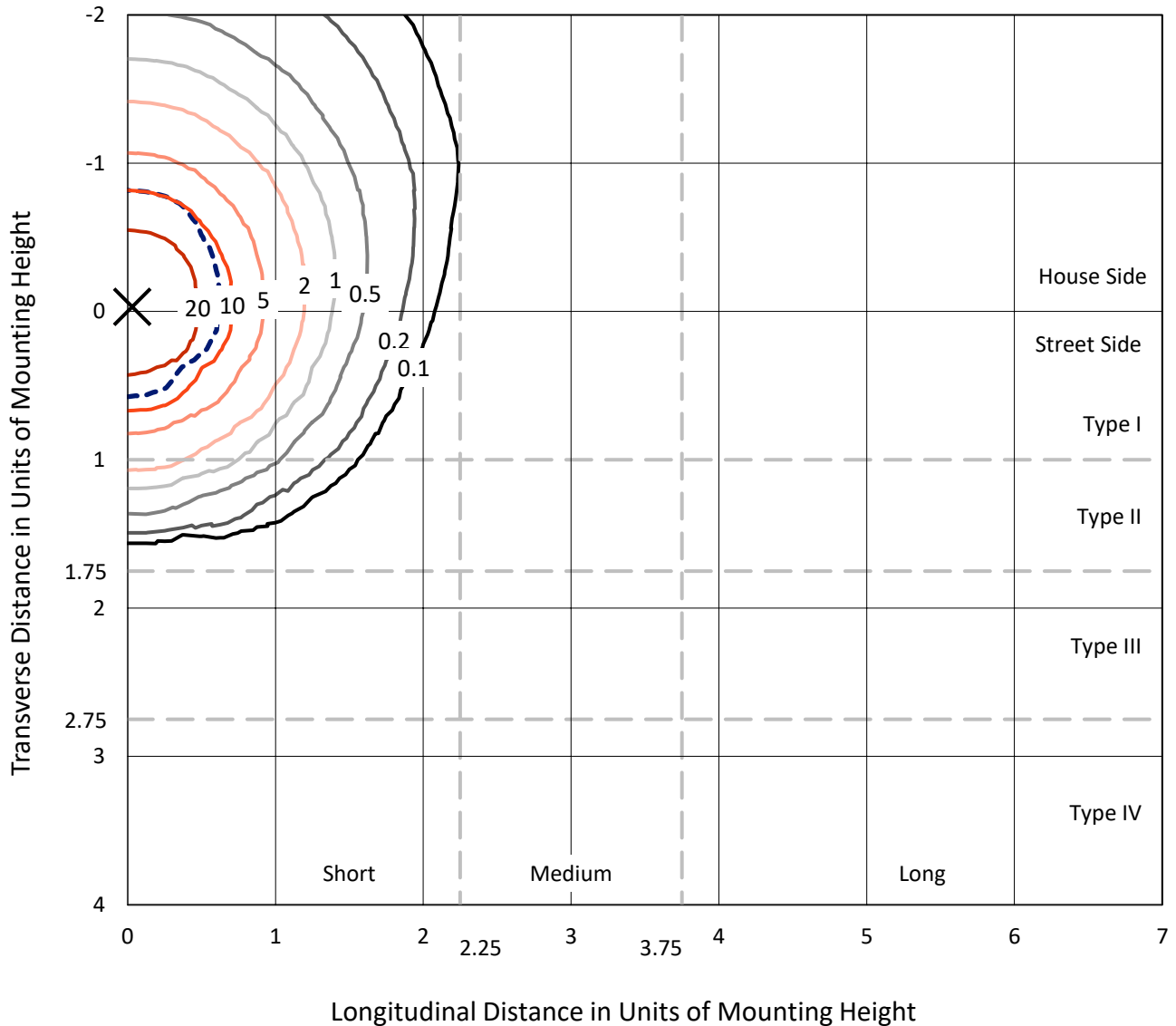
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

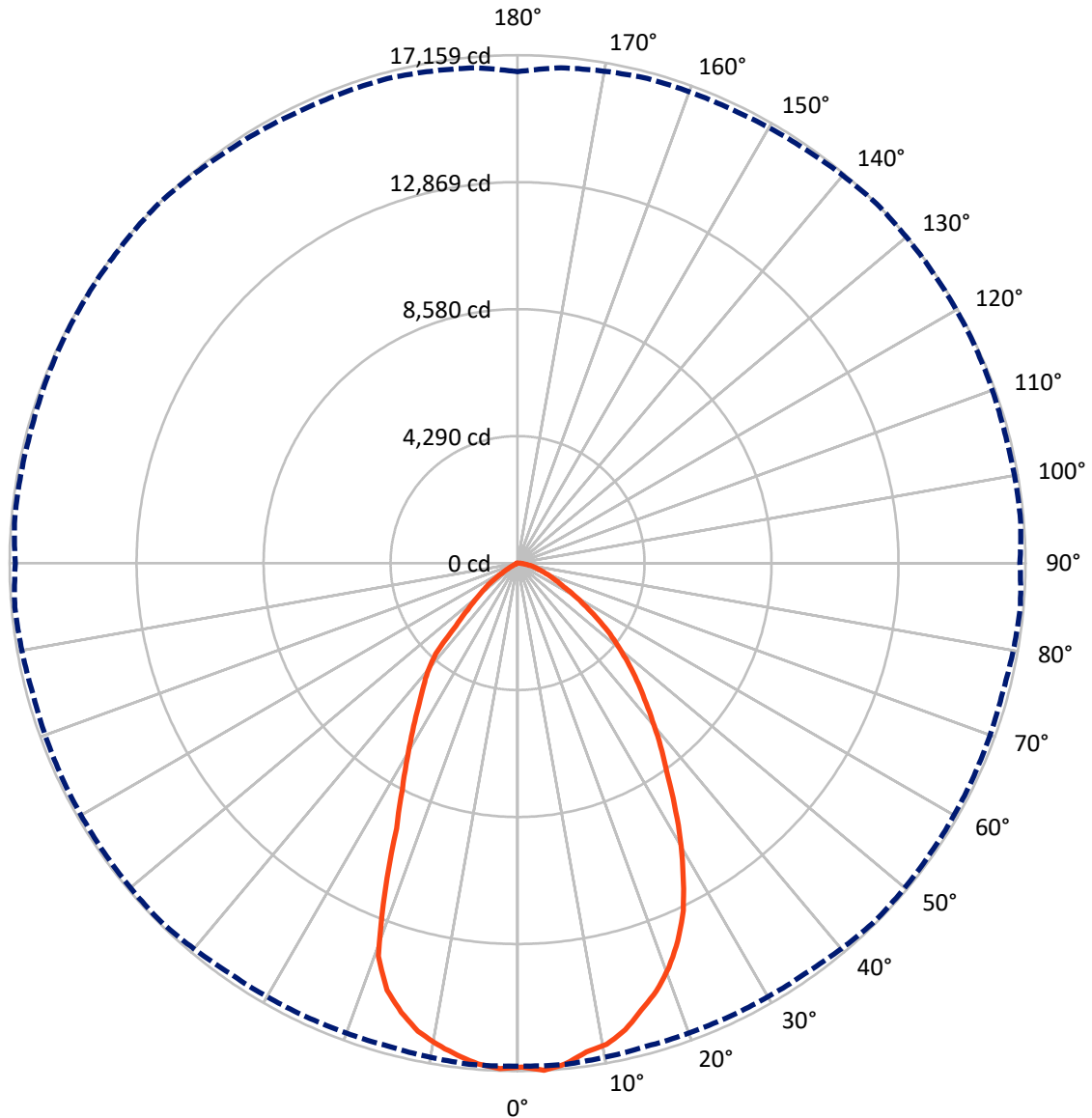
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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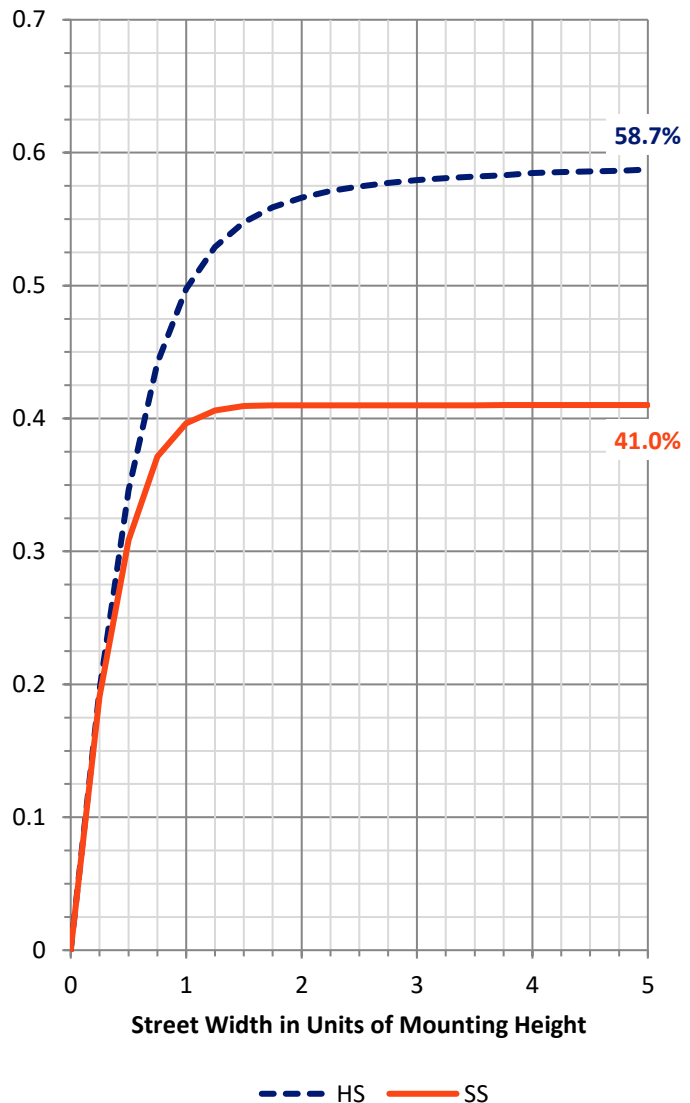
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13248.7	0.0	13248.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	9121.4	0.0	9121.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	22370.0	0.0	22370.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1596.5	7.1
10°-20°	4281.2	19.1
20°-30°	5221.2	23.3
30°-40°	4766.9	21.3
40°-50°	3444.9	15.4
50°-60°	1881.0	8.4
60°-70°	777.7	3.5
70°-80°	315.0	1.4
80°-90°	85.7	0.4
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°	22370.0	100.0
0°-180°	22370.0	100.0



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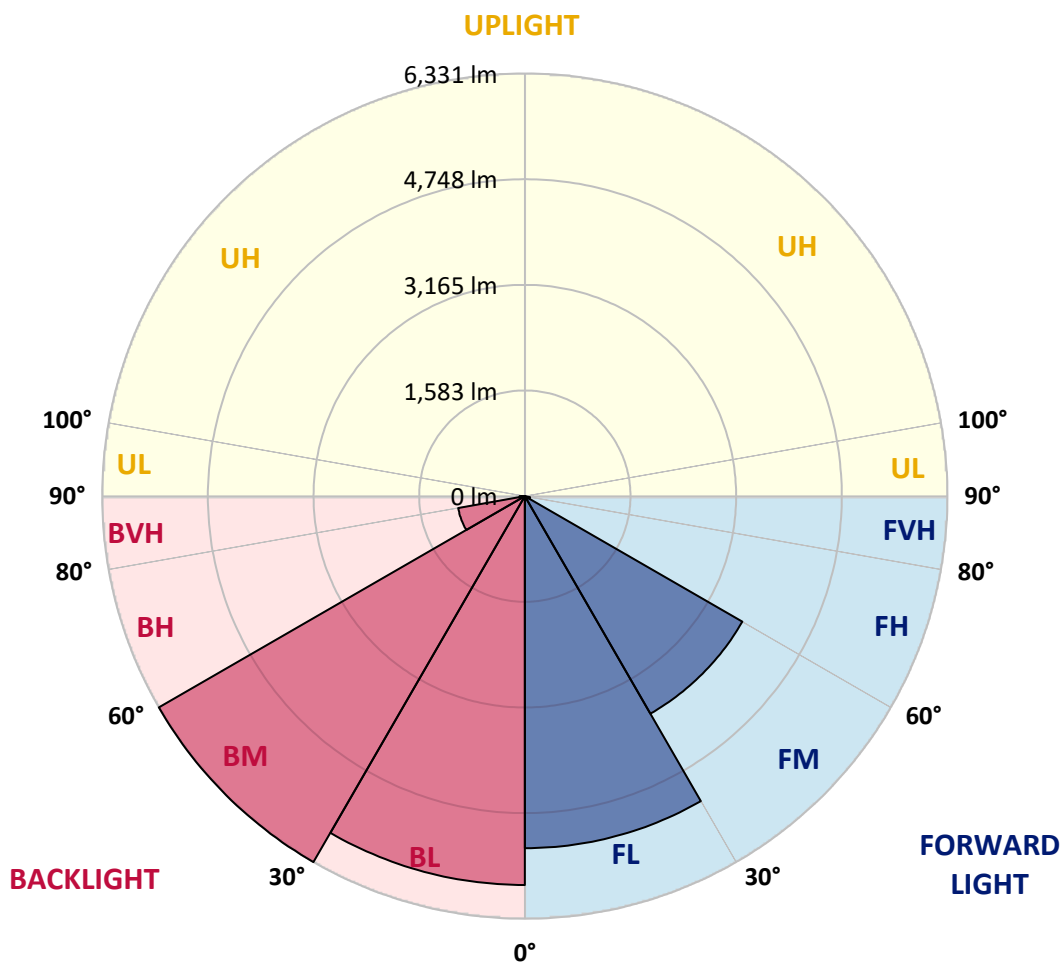
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5273.4	23.6			
FM (30°-60°)	3762.2	16.8			
FH (60°-80°)	78.8	0.4			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	5825.5	26.0	B5		
BM (30°-60°)	6330.5	28.3	B4/8500		
BH (60°-80°)	1013.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	78.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17023.5	17023.5	17023.5	17023.5	17023.5	17023.5	17023.5	17023.5	17023.5	17023.5
2.5°	16992.0	17014.1	16894.3	16907.0	16929.0	17089.7	17048.7	17010.9	16957.4	17048.7
5°	16970.0	16982.6	16856.5	16812.4	16831.3	16976.3	16843.9	16843.9	16831.3	16815.6
7.5°	16799.8	16806.1	16708.5	16629.7	16680.1	16746.3	16648.6	16695.9	16626.6	16680.1
10°	16544.7	16503.7	16387.2	16365.1	16421.8	16484.8	16418.7	16462.8	16399.8	16440.7
12.5°	16169.8	16106.8	16012.3	15984.0	16081.6	16166.7	16113.1	16087.9	16006.0	16106.8
15°	14723.9	14676.6	14890.8	15265.7	15602.8	15675.2	15618.5	15643.7	15473.6	15502.0
17.5°	12118.7	12030.5	12260.5	13148.8	14415.2	15083.0	15032.6	14868.8	14616.8	14673.5
20°	11013.0	10987.8	10962.6	11173.6	12058.8	14084.4	14153.7	13737.9	13378.8	13300.0
22.5°	10389.3	10379.8	10354.6	10401.9	10635.0	11936.0	12729.8	12345.5	12106.1	12084.0
25°	9819.1	9803.3	9727.7	9787.6	9787.6	9863.2	10880.7	11113.8	10902.7	10877.5
27.5°	9239.4	9211.1	9198.5	9226.8	9081.9	8571.6	8829.9	9967.1	9856.9	9863.2
30°	8612.6	8603.1	8568.5	8628.3	8181.0	7547.8	7384.0	8927.6	8949.6	8943.3
32.5°	7680.1	7721.1	7878.6	7944.7	7207.6	6684.7	6410.6	7724.2	8174.7	8165.2
35°	5578.9	5578.9	6092.4	7046.9	6316.1	5922.3	5774.3	6549.2	7409.2	7440.7
37.5°	4586.6	4602.4	4703.2	5137.9	5449.8	5311.2	5267.1	5512.8	6426.3	6476.7
40°	4126.7	4126.7	4126.7	3947.2	3937.7	4785.1	4759.9	4681.1	5550.6	5660.9
42.5°	3707.7	3717.2	3723.5	3269.9	3017.9	4136.2	4079.5	3959.8	4766.2	4895.4
45°	3276.2	3291.9	3310.8	2734.3	2624.1	2976.9	3452.6	3320.3	3991.3	4158.2
47.5°	2000.4	2025.6	2454.0	2318.5	2331.1	2296.5	2816.2	2794.2	3273.0	3509.3
50°	1351.4	1360.9	1401.8	1471.1	2000.4	1805.0	1994.1	2312.2	2485.5	2844.6
52.5°	1134.1	1149.8	1049.0	954.5	1313.6	1411.3	1392.4	1716.8	1786.1	2230.3
55°	797.0	847.4	800.1	790.7	746.6	1096.3	1055.3	1319.9	1364.0	1694.8
57.5°	81.9	94.5	163.8	589.1	488.3	620.6	752.9	967.1	1011.2	1250.6
60°	6.3	6.3	15.8	81.9	356.0	371.7	519.8	595.4	680.4	872.6
62.5°	0.0	3.2	6.3	12.6	56.7	198.5	261.5	311.9	409.5	563.9
65°	0.0	0.0	3.2	9.5	12.6	75.6	100.8	163.8	223.7	349.7
67.5°	0.0	0.0	3.2	6.3	9.5	18.9	34.7	59.9	119.7	198.5
70°	0.0	0.0	3.2	6.3	9.5	15.8	25.2	37.8	53.6	107.1
72.5°	0.0	0.0	3.2	3.2	6.3	15.8	18.9	25.2	37.8	53.6
75°	0.0	0.0	3.2	3.2	9.5	18.9	15.8	18.9	25.2	34.7
77.5°	0.0	0.0	3.2	6.3	9.5	18.9	15.8	18.9	18.9	22.1
80°	0.0	0.0	3.2	6.3	12.6	22.1	18.9	18.9	15.8	15.8
82.5°	0.0	0.0	3.2	9.5	12.6	28.4	28.4	25.2	12.6	9.5
85°	0.0	0.0	6.3	12.6	18.9	31.5	31.5	25.2	9.5	6.3
87.5°	0.0	0.0	6.3	9.5	15.8	22.1	31.5	25.2	9.5	3.2
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°
17023.5	0°	17023.5	17023.5	17023.5	17023.5	17023.5	17023.5	17023.5	17023.5	17023.5
16970.0	2.5°	17055.0	17036.1	17099.1	17124.3	17159.0	17026.7	16944.8	16947.9	16796.7
16777.8	5°	16878.6	16881.7	16963.7	16957.4	16992.0	16919.6	16888.0	16834.5	16702.2
16535.2	7.5°	16654.9	16626.6	16705.3	16765.2	16677.0	16727.4	16654.9	16680.1	16601.4
16321.0	10°	16481.7	16415.5	16488.0	16528.9	16532.1	16481.7	16412.4	16346.2	16317.9
15987.1	12.5°	16097.4	16012.3	16135.2	16191.9	16182.4	16084.8	16006.0	16021.8	15930.4
15401.2	15°	15568.1	15571.3	15659.5	15713.0	15662.6	15640.6	15646.9	15609.1	15530.3
14591.6	17.5°	14758.5	14805.8	15038.9	15168.1	15196.4	15152.3	15130.3	15086.2	15007.4
13300.0	20°	13410.3	13693.8	14109.6	14509.7	14588.4	14575.8	14497.1	14478.2	14434.1
12021.0	22.5°	12225.8	12436.9	12918.8	13542.6	13863.9	13895.4	13800.9	13772.5	13725.3
10877.5	25°	11000.4	11227.2	11661.9	12339.2	13003.9	13139.3	13123.6	13038.5	12988.1
9863.2	27.5°	9967.1	10193.9	10587.7	11198.8	11910.8	12345.5	12386.5	12251.0	12247.9
8959.1	30°	9034.7	9346.5	9645.8	10143.5	10833.4	11485.5	11554.8	11460.3	11469.8
8130.6	32.5°	8303.8	8562.2	8817.3	9151.2	9724.6	10483.8	10754.7	10666.5	10631.8
7440.7	35°	7557.3	7733.7	7995.1	8300.7	8691.3	9444.2	9913.6	9847.4	9812.8
6508.2	37.5°	6706.7	7009.1	7198.1	7541.5	7847.1	8445.6	9107.1	9097.7	9025.2
5714.4	40°	5834.1	6152.3	6438.9	6785.5	7021.7	7497.4	8231.4	8228.2	8237.7
4892.2	42.5°	5043.4	5336.4	5682.9	6060.9	6287.7	6634.3	7421.8	7465.9	7519.5
4214.9	45°	4328.3	4592.9	4914.3	5374.2	5648.3	5846.7	6546.0	6747.7	6744.5
3610.1	47.5°	3685.7	3934.6	4205.5	4652.8	5002.5	5182.0	5761.7	6048.3	6029.4
2961.2	50°	3093.5	3314.0	3597.5	3922.0	4391.3	4548.8	4980.4	5358.4	5330.1
2359.5	52.5°	2488.6	2794.2	3033.6	3329.7	3824.3	3978.7	4312.6	4681.1	4659.1
1770.4	55°	1940.5	2236.6	2526.4	2781.6	3197.4	3427.4	3666.8	4044.8	4038.5
1386.1	57.5°	1468.0	1792.4	2066.5	2309.1	2639.8	2923.4	3115.5	3458.9	3503.0
948.2	60°	1086.8	1335.7	1631.8	1902.7	2164.2	2457.1	2586.3	2923.4	2942.3
648.9	62.5°	740.3	1014.4	1304.2	1549.9	1745.2	2047.6	2164.2	2441.4	2476.0
415.8	65°	513.5	689.9	1020.7	1197.1	1436.5	1694.8	1811.3	2031.9	2101.2
239.4	67.5°	340.2	491.4	797.0	957.7	1193.9	1370.3	1518.4	1697.9	1773.5
151.2	70°	185.9	362.3	570.2	756.0	960.8	1130.9	1275.8	1420.7	1486.9
69.3	72.5°	126.0	242.6	396.9	598.5	774.9	941.9	1071.1	1178.2	1181.3
41.0	75°	63.0	163.8	302.4	463.1	604.8	768.6	885.2	948.2	872.6
25.2	77.5°	37.8	119.7	245.7	371.7	491.4	620.6	686.7	721.4	598.5
18.9	80°	22.1	85.1	192.2	296.1	340.2	456.8	519.8	529.2	400.1
12.6	82.5°	15.8	63.0	151.2	217.4	207.9	321.3	390.6	378.0	255.2
9.5	85°	9.5	44.1	94.5	135.5	126.0	211.1	226.8	233.1	148.1
6.3	87.5°	6.3	25.2	50.4	72.5	59.9	91.4	91.4	110.3	72.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
17023.5
16601.4
16670.7
16469.1
16191.9
15851.6
15451.6
14972.7
14333.3
13712.7
12934.6
12241.6
11422.5
10635.0
9765.5
9085.1
8237.7
7491.1
6750.8
6035.7
5355.3
4706.4
4054.3
3484.1
2970.6
2482.3
2085.4
1764.1
1461.7
1153.0
815.9
576.5
374.9
236.3
135.5
63.0
0.0

(END OF REPORT)