

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: P638293

Luminaire Tested: **IFLD-M-SA4E-830-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638293  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-830-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22128 lumens  
Efficiency: N/A  
Efficacy: 70.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

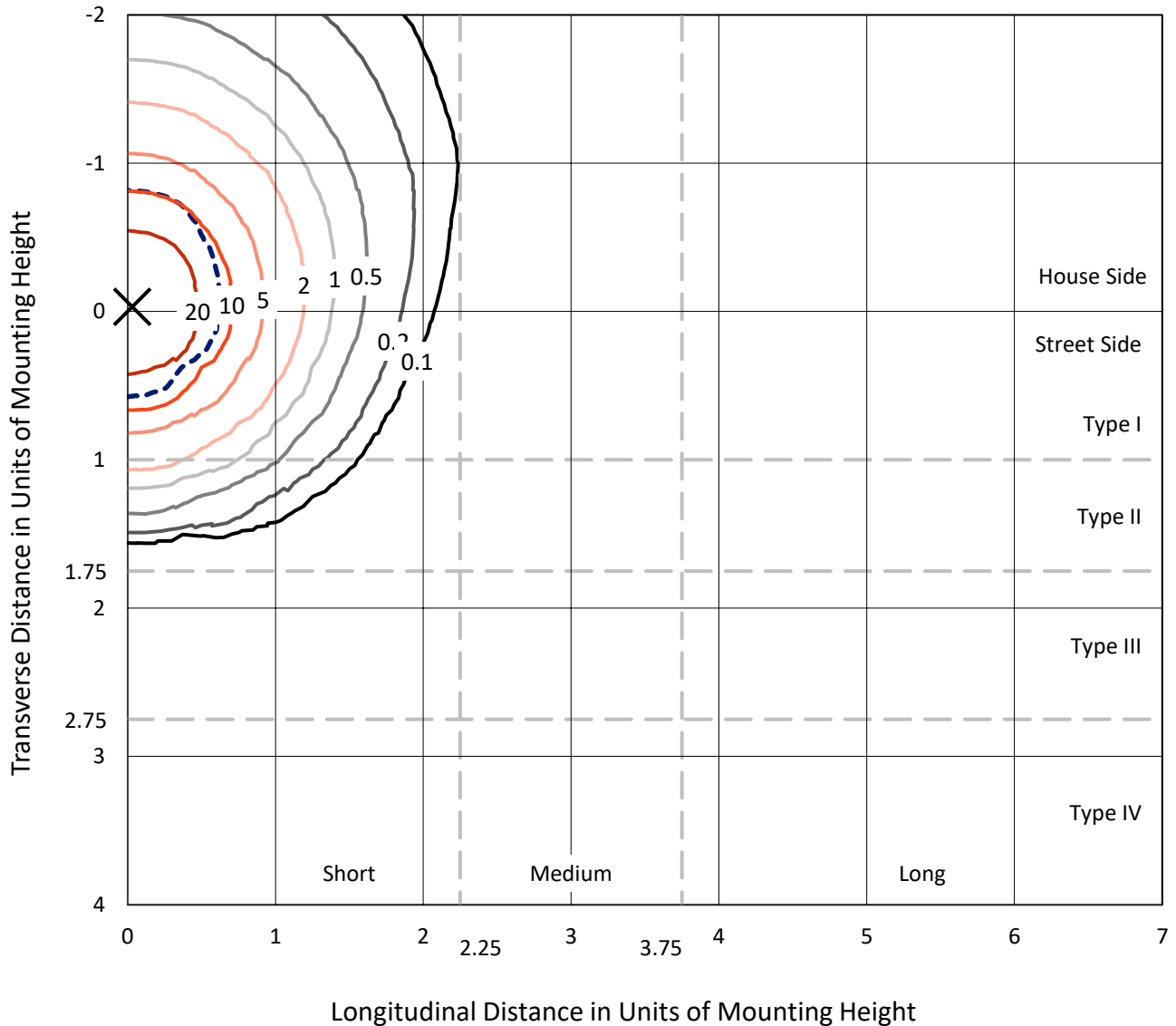
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

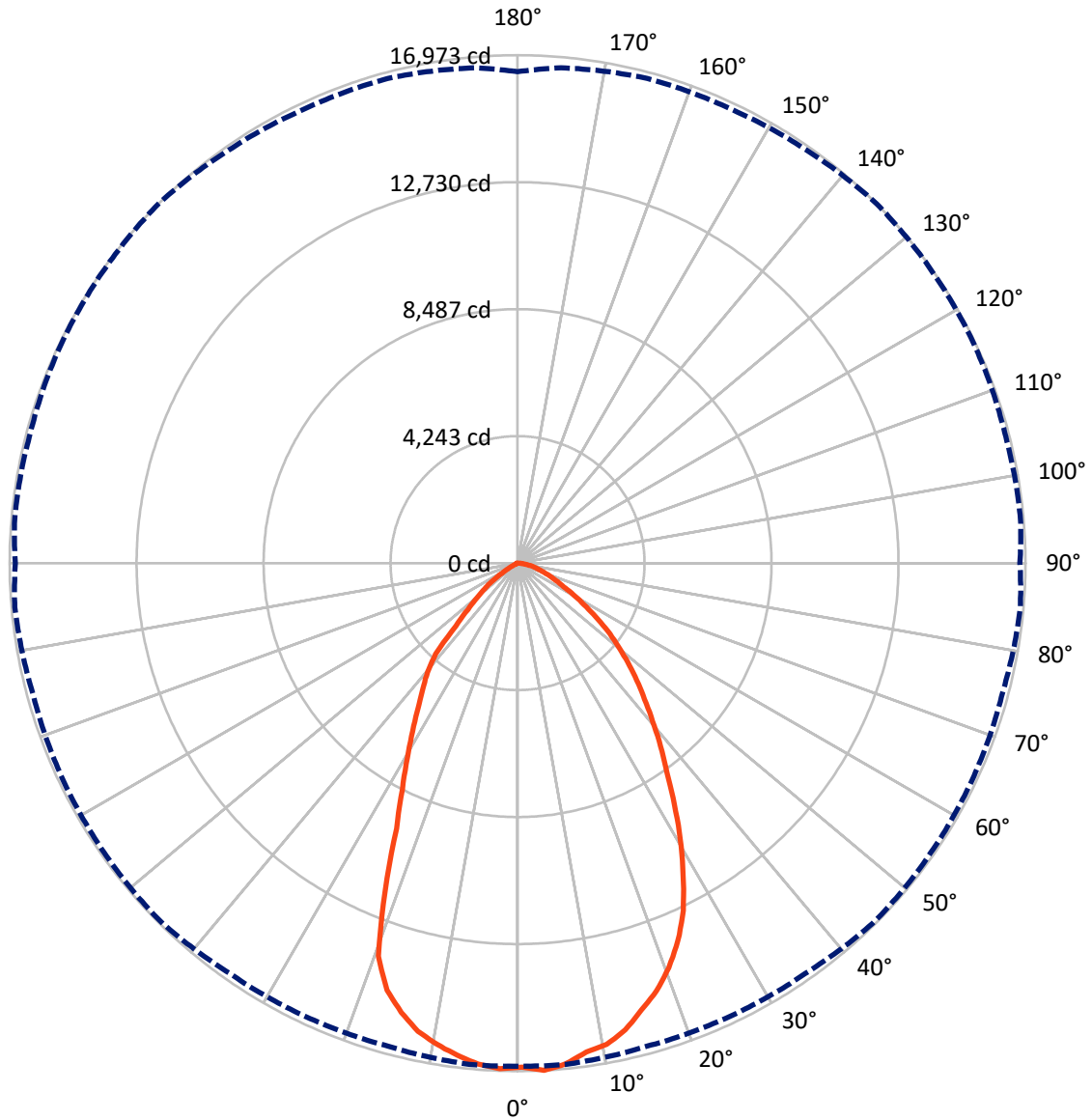
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 42.1 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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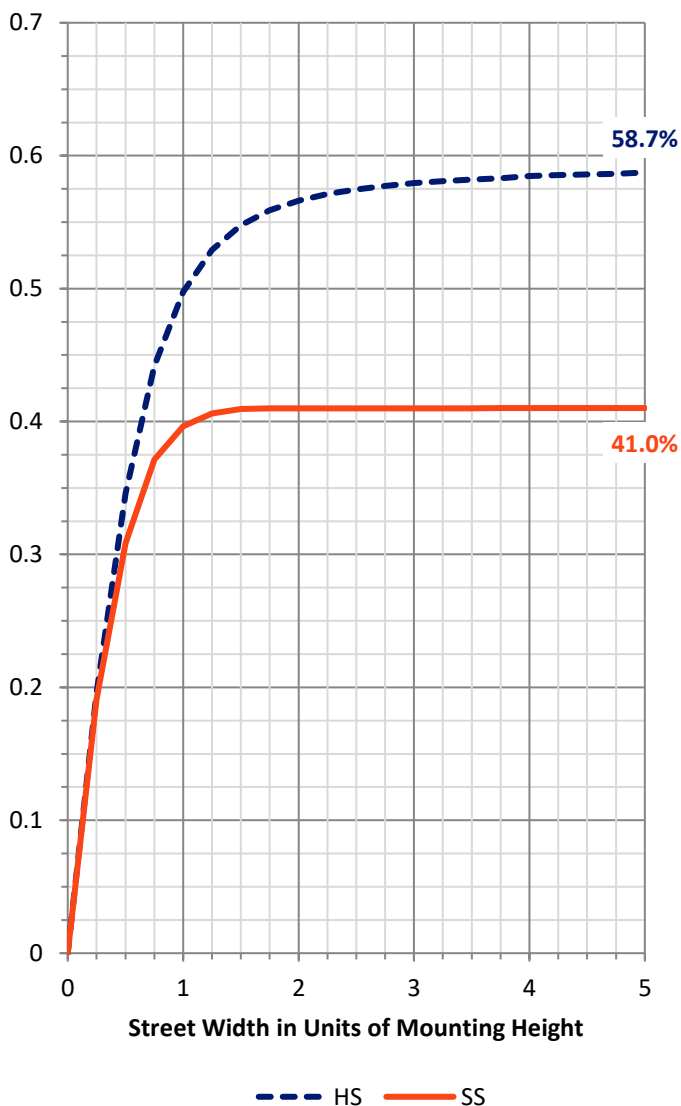
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13105.3	0.0	13105.3
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	9022.7	0.0	9022.7
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	22128.0	0.0	22128.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1579.3	7.1
10°-20°	4234.9	19.1
20°-30°	5164.7	23.3
30°-40°	4715.3	21.3
40°-50°	3407.6	15.4
50°-60°	1860.6	8.4
60°-70°	769.3	3.5
70°-80°	311.6	1.4
80°-90°	84.7	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°	22128.0	100.0
0°-180°	22128.0	100.0



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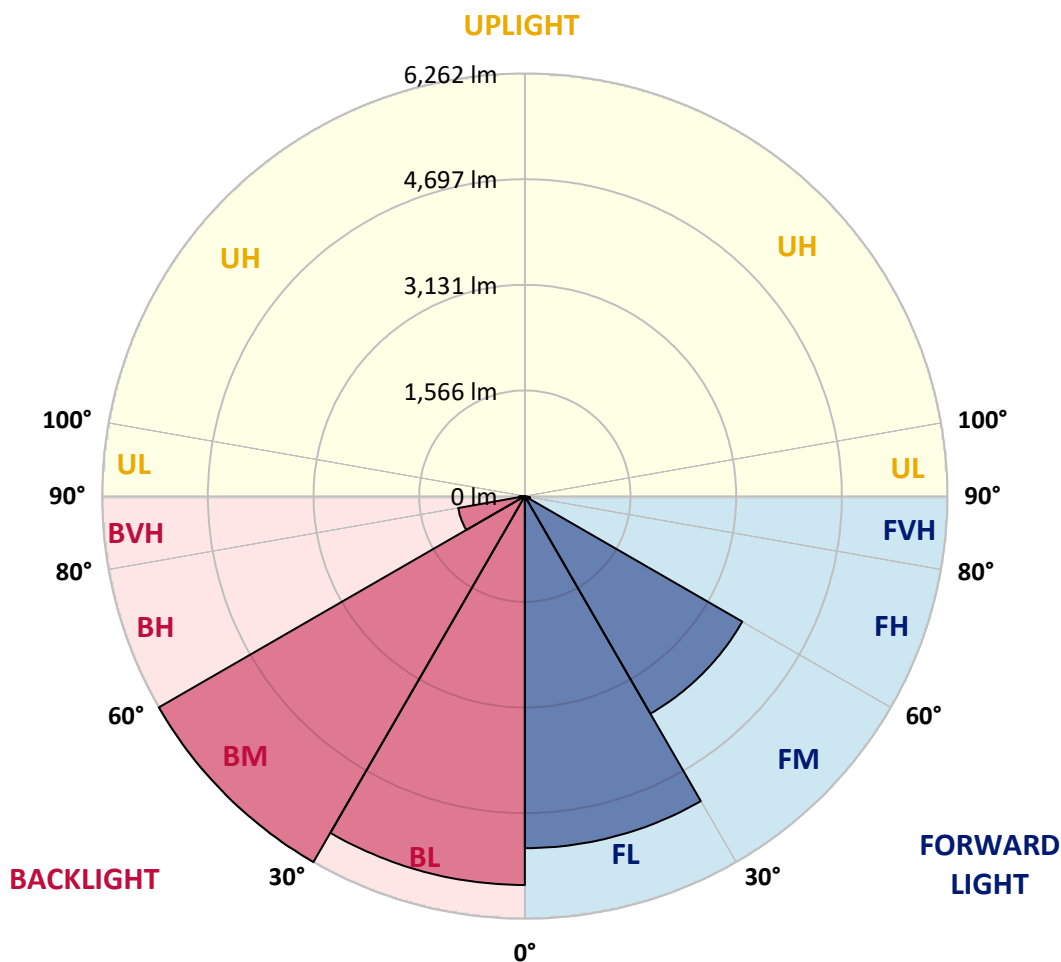
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5216.4	23.6			
FM (30°-60°)	3721.5	16.8			
FH (60°-80°)	78.0	0.4			G0/660
FVH (80°-90°)	6.8	0.0			G0/10
BL (0°-30°)	5762.5	26.0	B5		
BM (30°-60°)	6262.0	28.3	B4/8500		
BH (60°-80°)	1002.9	4.5	B3/2500		G3/2500
BVH (80°-90°)	78.0	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°	16839.4	16839.4	16839.4	16839.4	16839.4	16839.4	16839.4	16839.4	16839.4	16839.4
2.5°	16808.2	16830.0	16711.6	16724.1	16745.9	16904.8	16864.3	16826.9	16773.9	16864.3
5°	16786.4	16798.8	16674.2	16630.6	16649.3	16792.6	16661.7	16661.7	16649.3	16633.7
7.5°	16618.1	16624.3	16527.7	16449.8	16499.7	16565.1	16468.5	16515.3	16446.7	16499.7
10°	16365.7	16325.2	16209.9	16188.1	16244.2	16306.5	16241.1	16284.7	16222.4	16262.9
12.5°	15994.9	15932.6	15839.1	15811.0	15907.6	15991.8	15938.8	15913.9	15832.9	15932.6
15°	14564.6	14517.9	14729.8	15100.6	15434.0	15505.7	15449.6	15474.5	15306.2	15334.3
17.5°	11987.6	11900.4	12127.8	13006.6	14259.2	14919.8	14870.0	14707.9	14458.7	14514.8
20°	10893.9	10868.9	10844.0	11052.8	11928.4	13932.0	14000.6	13589.3	13234.0	13156.1
22.5°	10276.9	10267.5	10242.6	10289.3	10519.9	11806.9	12592.1	12212.0	11975.1	11953.3
25°	9712.9	9697.3	9622.5	9681.7	9681.7	9756.5	10763.0	10993.6	10784.8	10759.9
27.5°	9139.5	9111.5	9099.0	9127.0	8983.7	8478.9	8734.4	9859.3	9750.2	9756.5
30°	8519.4	8510.0	8475.8	8535.0	8092.5	7466.2	7304.1	8831.0	8852.8	8846.6
32.5°	7597.0	7637.5	7793.3	7858.8	7129.6	6612.3	6341.2	7640.7	8086.3	8076.9
35°	5518.6	5518.6	6026.5	6970.7	6247.8	5858.3	5711.8	6478.4	7329.0	7360.2
37.5°	4537.0	4552.6	4652.3	5082.3	5390.8	5253.7	5210.1	5453.2	6356.8	6406.7
40°	4082.1	4082.1	4082.1	3904.5	3895.1	4733.3	4708.4	4630.5	5490.6	5599.6
42.5°	3667.6	3677.0	3683.2	3234.5	2985.2	4091.4	4035.3	3916.9	4714.6	4842.4
45°	3240.7	3256.3	3275.0	2704.8	2595.7	2944.7	3415.2	3284.4	3948.1	4113.2
47.5°	1978.7	2003.6	2427.4	2293.4	2305.9	2271.6	2785.8	2764.0	3237.6	3471.3
50°	1336.8	1346.2	1386.7	1455.2	1978.7	1785.5	1972.5	2287.2	2458.6	2813.8
52.5°	1121.8	1137.4	1037.7	944.2	1299.4	1396.0	1377.3	1698.3	1766.8	2206.2
55°	788.4	838.2	791.5	782.1	738.5	1084.4	1043.9	1305.6	1349.3	1676.5
57.5°	81.0	93.5	162.0	582.7	483.0	613.9	744.7	956.6	1000.3	1237.1
60°	6.2	6.2	15.6	81.0	352.1	367.7	514.2	588.9	673.1	863.2
62.5°	0.0	3.1	6.2	12.5	56.1	196.3	258.6	308.5	405.1	557.8
65°	0.0	0.0	3.1	9.3	12.5	74.8	99.7	162.0	221.2	345.9
67.5°	0.0	0.0	3.1	6.2	9.3	18.7	34.3	59.2	118.4	196.3
70°	0.0	0.0	3.1	6.2	9.3	15.6	24.9	37.4	53.0	105.9
72.5°	0.0	0.0	3.1	3.1	6.2	15.6	18.7	24.9	37.4	53.0
75°	0.0	0.0	3.1	3.1	9.3	18.7	15.6	18.7	24.9	34.3
77.5°	0.0	0.0	3.1	6.2	9.3	18.7	15.6	18.7	18.7	21.8
80°	0.0	0.0	3.1	6.2	12.5	21.8	18.7	18.7	15.6	15.6
82.5°	0.0	0.0	3.1	9.3	12.5	28.0	28.0	24.9	12.5	9.3
85°	0.0	0.0	6.2	12.5	18.7	31.2	31.2	24.9	9.3	6.2
87.5°	0.0	0.0	6.2	9.3	15.6	21.8	31.2	24.9	9.3	3.1
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°
16839.4	0°	16839.4	16839.4	16839.4	16839.4	16839.4	16839.4	16839.4	16839.4	16839.4
16786.4	2.5°	16870.5	16851.8	16914.1	16939.1	16973.3	16842.5	16761.5	16764.6	16615.0
16596.3	5°	16696.0	16699.1	16780.2	16773.9	16808.2	16736.5	16705.4	16652.4	16521.5
16356.4	7.5°	16474.8	16446.7	16524.6	16583.8	16496.6	16546.4	16474.8	16499.7	16421.8
16144.5	10°	16303.4	16238.0	16309.6	16350.1	16353.2	16303.4	16234.8	16169.4	16141.4
15814.2	12.5°	15923.2	15839.1	15960.6	16016.7	16007.4	15910.8	15832.9	15848.4	15758.1
15234.6	15°	15399.7	15402.8	15490.1	15543.1	15493.2	15471.4	15477.6	15440.2	15362.3
14433.7	17.5°	14598.9	14645.6	14876.2	15004.0	15032.0	14988.4	14966.6	14923.0	14845.1
13156.1	20°	13265.2	13545.6	13957.0	14352.7	14430.6	14418.2	14340.3	14321.6	14277.9
11891.0	22.5°	12093.5	12302.3	12779.1	13396.1	13713.9	13745.1	13651.6	13623.6	13576.8
10759.9	25°	10881.4	11105.7	11535.8	12205.7	12863.2	12997.2	12981.6	12897.5	12847.6
9756.5	27.5°	9859.3	10083.7	10473.2	11077.7	11781.9	12212.0	12252.5	12118.5	12115.4
8862.2	30°	8936.9	9245.4	9541.5	10033.8	10716.2	11361.3	11429.8	11336.3	11345.7
8042.6	32.5°	8214.0	8469.5	8721.9	9052.2	9619.4	10370.4	10638.3	10551.1	10516.8
7360.2	35°	7475.5	7650.0	7908.6	8210.9	8597.3	9342.0	9806.3	9740.9	9706.6
6437.8	37.5°	6634.2	6933.3	7120.3	7459.9	7762.2	8354.2	9008.6	8999.3	8927.6
5652.6	40°	5771.0	6085.7	6369.3	6712.1	6945.8	7416.3	8142.3	8139.2	8148.6
4839.3	42.5°	4988.9	5278.7	5621.4	5995.4	6219.7	6562.5	7341.5	7385.1	7438.1
4169.3	45°	4281.5	4543.3	4861.1	5316.1	5587.2	5783.5	6475.2	6674.7	6671.6
3571.0	47.5°	3645.8	3892.0	4160.0	4602.5	4948.4	5126.0	5699.3	5982.9	5964.2
2929.1	50°	3060.0	3278.1	3558.6	3879.5	4343.8	4499.6	4926.5	5300.5	5272.4
2334.0	52.5°	2461.7	2764.0	3000.8	3293.7	3782.9	3935.6	4265.9	4630.5	4608.7
1751.2	55°	1919.5	2212.4	2499.1	2751.5	3162.8	3390.3	3627.1	4001.1	3994.8
1371.1	57.5°	1452.1	1773.1	2044.2	2284.1	2611.3	2891.7	3081.8	3421.5	3465.1
937.9	60°	1075.1	1321.2	1614.1	1882.1	2140.8	2430.6	2558.3	2891.7	2910.4
641.9	62.5°	732.3	1003.4	1290.1	1533.1	1726.3	2025.5	2140.8	2415.0	2449.2
411.3	65°	507.9	682.4	1009.6	1184.1	1420.9	1676.5	1791.8	2009.9	2078.4
236.8	67.5°	336.5	486.1	788.4	947.3	1181.0	1355.5	1502.0	1679.6	1754.4
149.6	70°	183.8	358.4	564.0	747.9	950.4	1118.7	1262.0	1405.4	1470.8
68.6	72.5°	124.6	239.9	392.6	592.1	766.6	931.7	1059.5	1165.4	1168.5
40.5	75°	62.3	162.0	299.1	458.1	598.3	760.3	875.6	937.9	863.2
24.9	77.5°	37.4	118.4	243.1	367.7	486.1	613.9	679.3	713.6	592.1
18.7	80°	21.8	84.1	190.1	292.9	336.5	451.8	514.2	523.5	395.7
12.5	82.5°	15.6	62.3	149.6	215.0	205.7	317.8	386.4	373.9	252.4
9.3	85°	9.3	43.6	93.5	134.0	124.6	208.8	224.4	230.6	146.5
6.2	87.5°	6.2	24.9	49.9	71.7	59.2	90.4	90.4	109.1	71.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16839.4  
*16421.8*  
16490.4  
16290.9  
16016.7  
15680.2  
15284.4  
14810.8  
14178.2  
13564.3  
12794.7  
12109.1  
11298.9  
10519.9  
9659.9  
8986.8  
8148.6  
7410.1  
6677.8  
5970.4  
5297.4  
4655.4  
4010.4  
3446.4  
2938.5  
2455.5  
2062.9  
1745.0  
1445.9  
1140.5  
807.1  
570.2  
370.8  
233.7  
134.0  
62.3  
0.0

(END OF REPORT)