

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: P638175

Luminaire Tested: **IFLD-M-SA4C-740-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638175  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-740-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21869.2 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

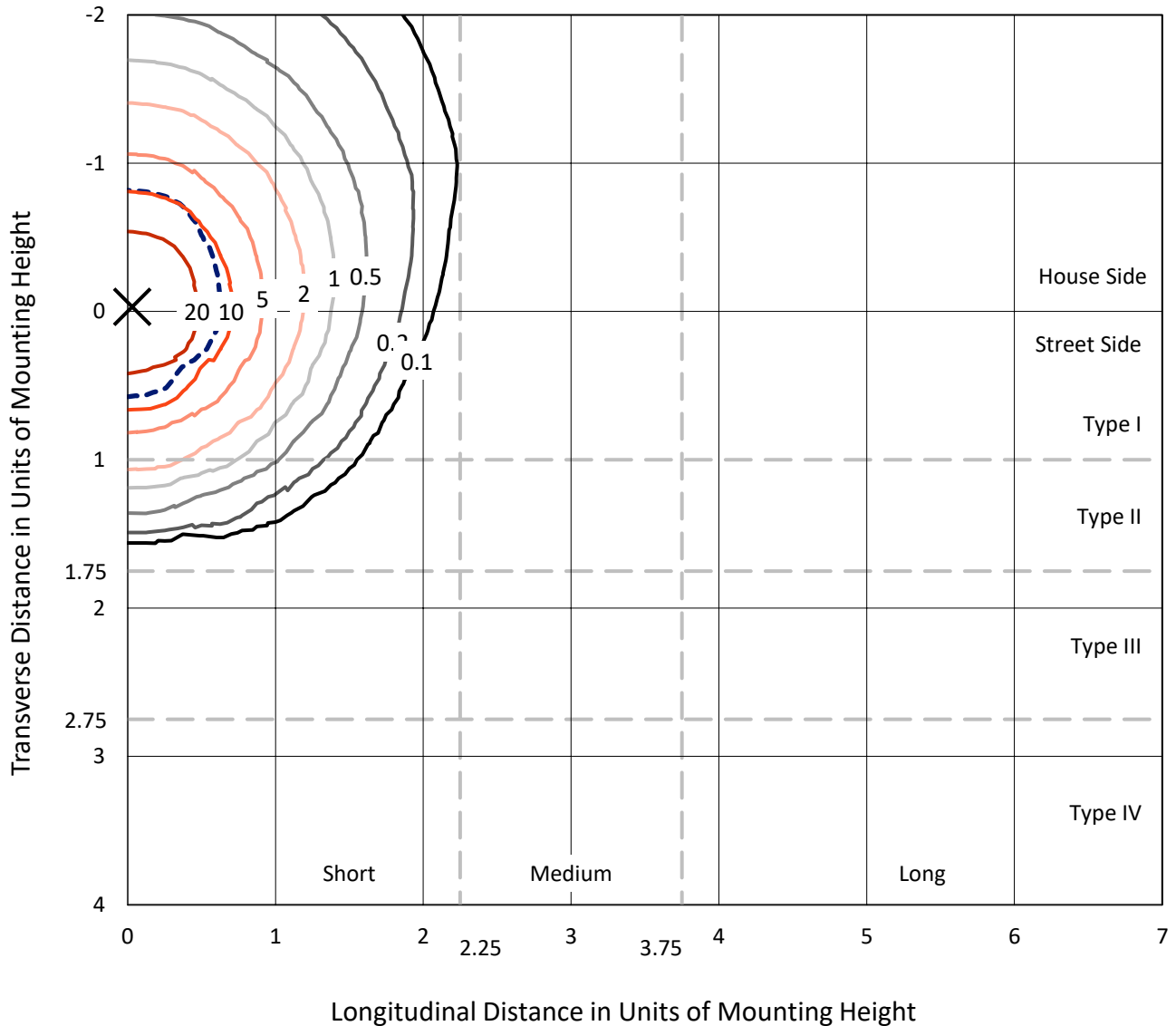
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

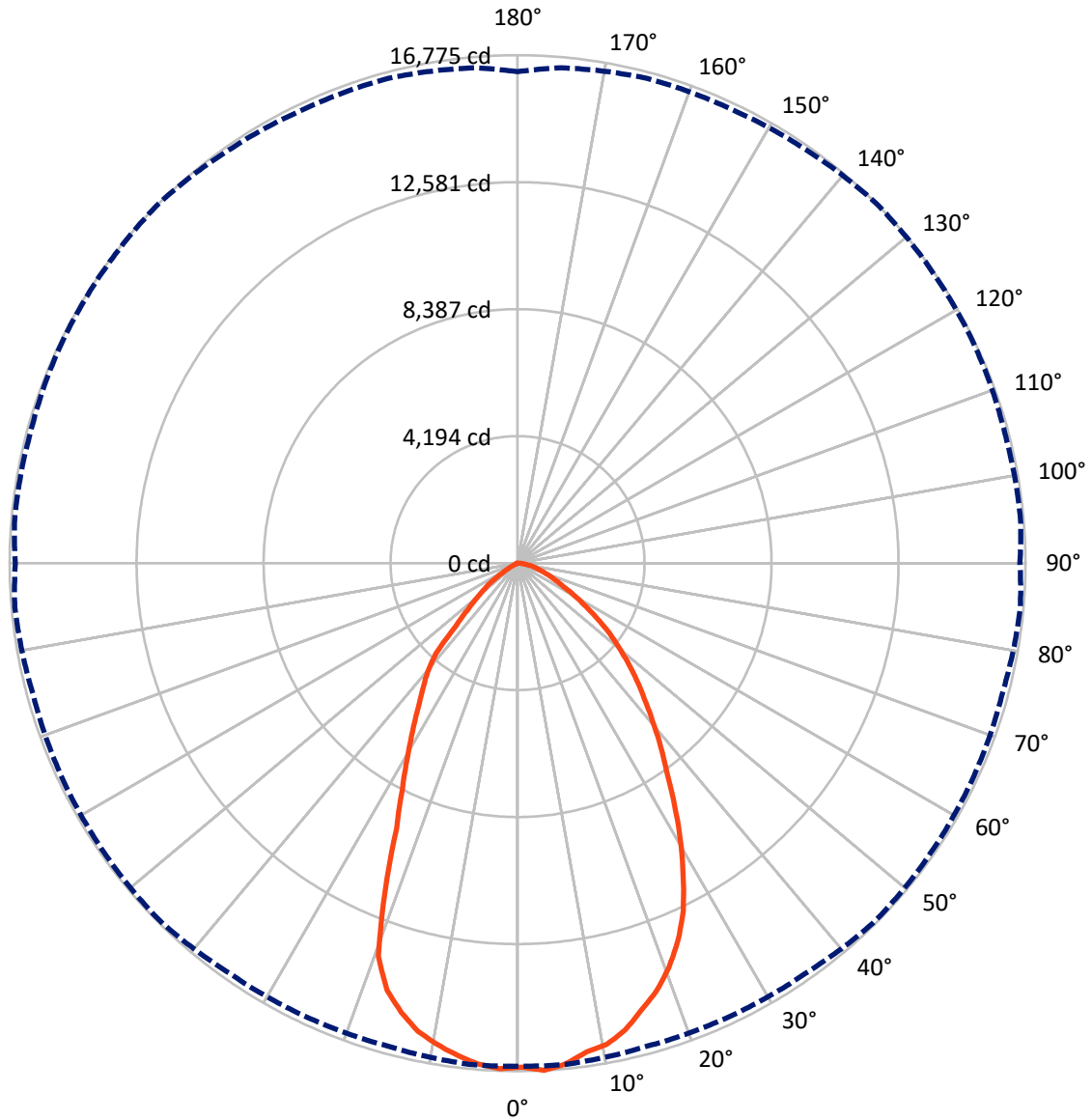
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.6 fc  
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-M-SA4C-740-U-77-VI

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: IFLD-M-SA4C-740-U-77-VI

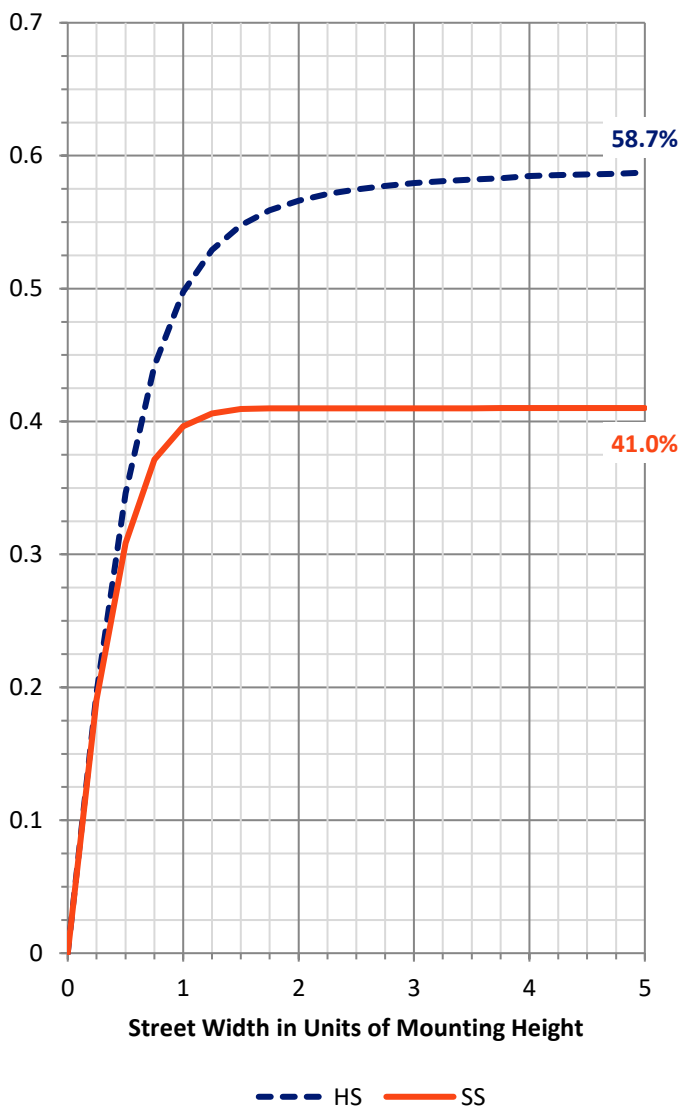
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12952.1	0.0	12952.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8917.2	0.0	8917.2
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	21869.2	0.0	21869.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1560.8	7.1
10°-20°	4185.4	19.1
20°-30°	5104.3	23.3
30°-40°	4660.2	21.3
40°-50°	3367.8	15.4
50°-60°	1838.8	8.4
60°-70°	760.3	3.5
70°-80°	307.9	1.4
80°-90°	83.8	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°	21869.2	100.0
0°-180°	21869.2	100.0



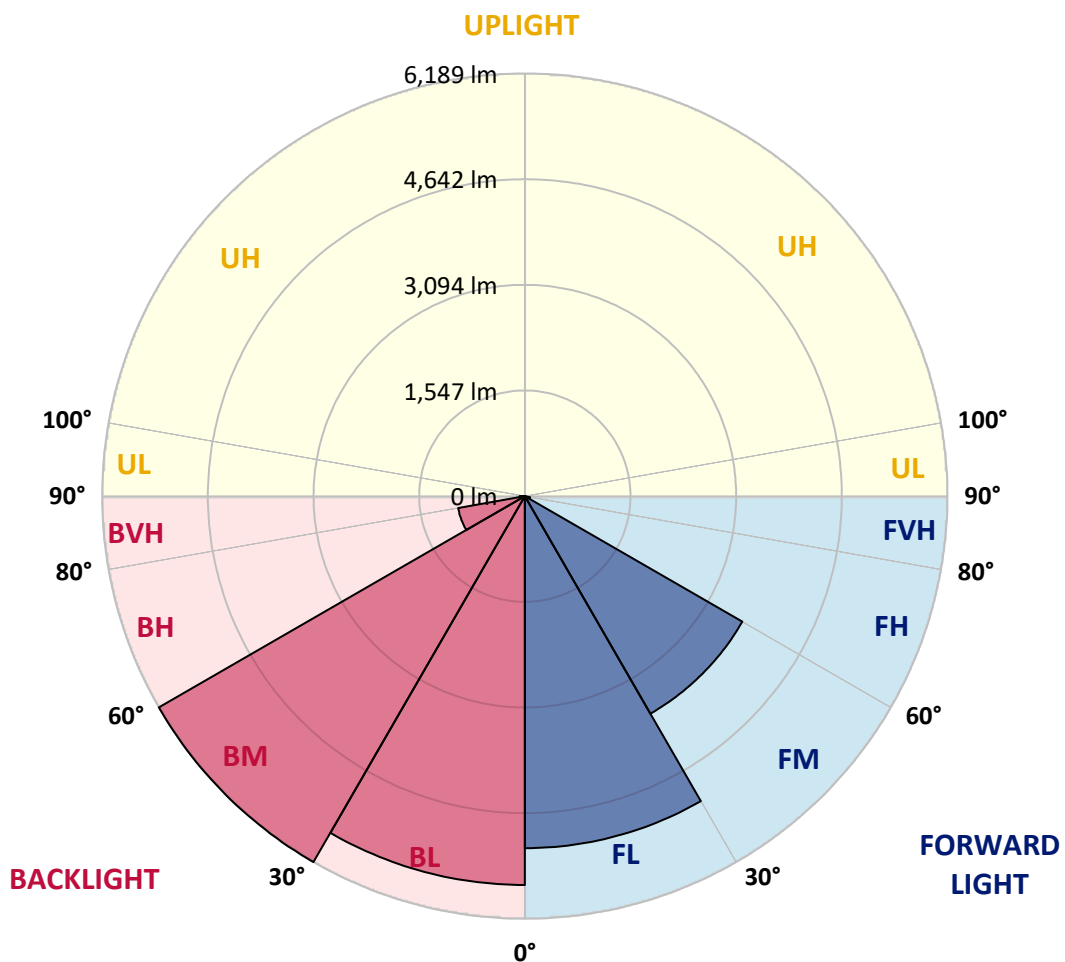
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 CATALOG NUMBER: IFLD-M-SA4C-740-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5155.4	23.6			
FM (30°-60°)	3678.0	16.8			
FH (60°-80°)	77.1	0.4			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	5695.1	26.0	B5		
BM (30°-60°)	6188.8	28.3	B4/8500		
BH (60°-80°)	991.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	77.0	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-G2**

Type I Short





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 CATALOG NUMBER: IFLD-M-SA4C-740-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	16642.4	16642.4	16642.4	16642.4	16642.4	16642.4	16642.4	16642.4	16642.4	16642.4
2.5°	16611.6	16633.2	16516.1	16528.4	16550.0	16707.1	16667.0	16630.1	16577.7	16667.0
5°	16590.0	16602.4	16479.2	16436.1	16454.5	16596.2	16466.9	16466.9	16454.5	16439.1
7.5°	16423.7	16429.9	16334.4	16257.4	16306.7	16371.4	16275.9	16322.1	16254.4	16306.7
10°	16174.3	16134.3	16020.3	15998.8	16054.2	16115.8	16051.1	16094.2	16032.6	16072.7
12.5°	15807.8	15746.2	15653.8	15626.1	15721.6	15804.7	15752.4	15727.7	15647.7	15746.2
15°	14394.3	14348.1	14557.5	14924.0	15253.5	15324.3	15268.9	15293.5	15127.2	15154.9
17.5°	11847.4	11761.2	11986.0	12854.4	14092.5	14745.3	14696.1	14535.9	14289.5	14345.0
20°	10766.4	10741.8	10717.2	10923.5	11788.9	13769.1	13836.8	13430.3	13079.2	13002.3
22.5°	10156.7	10147.4	10122.8	10169.0	10396.9	11668.8	12444.8	12069.1	11835.1	11813.5
25°	9599.3	9583.9	9509.9	9568.5	9568.5	9642.4	10637.1	10865.0	10658.6	10634.0
27.5°	9032.6	9004.9	8992.6	9020.3	8878.6	8379.7	8632.2	9744.0	9636.2	9642.4
30°	8419.7	8410.5	8376.6	8435.1	7997.8	7378.8	7218.7	8727.7	8749.3	8743.1
32.5°	7508.2	7548.2	7702.2	7766.9	7046.2	6535.0	6267.1	7551.3	7991.7	7982.4
35°	5454.0	5454.0	5956.0	6889.2	6174.7	5789.7	5645.0	6402.6	7243.3	7274.1
37.5°	4484.0	4499.4	4597.9	5022.9	5327.8	5192.3	5149.2	5389.4	6282.5	6331.7
40°	4034.3	4034.3	4034.3	3858.8	3849.6	4678.0	4653.3	4576.4	5426.3	5534.1
42.5°	3624.7	3634.0	3640.1	3196.7	2950.3	4043.6	3988.1	3871.1	4659.5	4785.8
45°	3202.8	3218.2	3236.7	2673.1	2565.3	2910.3	3375.3	3245.9	3901.9	4065.1
47.5°	1955.6	1980.2	2399.0	2266.6	2278.9	2245.1	2753.2	2731.6	3199.8	3430.7
50°	1321.2	1330.4	1370.4	1438.2	1955.6	1764.6	1949.4	2260.5	2429.8	2780.9
52.5°	1108.7	1124.1	1025.5	933.1	1284.2	1379.7	1361.2	1678.4	1746.2	2180.4
55°	779.1	828.4	782.2	773.0	729.9	1071.7	1031.7	1290.4	1333.5	1656.8
57.5°	80.1	92.4	160.1	575.9	477.3	606.7	736.0	945.5	988.6	1222.6
60°	6.2	6.2	15.4	80.1	348.0	363.4	508.1	582.1	665.2	853.1
62.5°	0.0	3.1	6.2	12.3	55.4	194.0	255.6	304.9	400.4	551.3
65°	0.0	0.0	3.1	9.2	12.3	73.9	98.5	160.1	218.7	341.8
67.5°	0.0	0.0	3.1	6.2	9.2	18.5	33.9	58.5	117.0	194.0
70°	0.0	0.0	3.1	6.2	9.2	15.4	24.6	37.0	52.4	104.7
72.5°	0.0	0.0	3.1	3.1	6.2	15.4	18.5	24.6	37.0	52.4
75°	0.0	0.0	3.1	3.1	9.2	18.5	15.4	18.5	24.6	33.9
77.5°	0.0	0.0	3.1	6.2	9.2	18.5	15.4	18.5	18.5	21.6
80°	0.0	0.0	3.1	6.2	12.3	21.6	18.5	18.5	15.4	15.4
82.5°	0.0	0.0	3.1	9.2	12.3	27.7	27.7	24.6	12.3	9.2
85°	0.0	0.0	6.2	12.3	18.5	30.8	30.8	24.6	9.2	6.2
87.5°	0.0	0.0	6.2	9.2	15.4	21.6	30.8	24.6	9.2	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638175  
 CATALOG NUMBER: IFLD-M-SA4C-740-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
16642.4	0°	16642.4	16642.4	16642.4	16642.4	16642.4	16642.4	16642.4	16642.4	16642.4
16590.0	2.5°	16673.2	16654.7	16716.3	16740.9	16774.8	16645.5	16565.4	16568.5	16420.7
16402.2	5°	16500.7	16503.8	16583.9	16577.7	16611.6	16540.8	16510.0	16457.6	16328.3
16165.1	7.5°	16282.1	16254.4	16331.4	16389.9	16303.6	16352.9	16282.1	16306.7	16229.7
15955.6	10°	16112.7	16048.0	16118.9	16158.9	16162.0	16112.7	16044.9	15980.3	15952.6
15629.2	12.5°	15737.0	15653.8	15773.9	15829.4	15820.1	15724.7	15647.7	15663.1	15573.8
15056.4	15°	15219.6	15222.7	15308.9	15361.3	15312.0	15290.4	15296.6	15259.6	15182.6
14264.9	17.5°	14428.1	14474.3	14702.2	14828.5	14856.2	14813.1	14791.5	14748.4	14671.4
13002.3	20°	13110.0	13387.2	13793.7	14184.8	14261.8	14249.5	14172.5	14154.0	14110.9
11751.9	22.5°	11952.1	12158.4	12629.6	13239.4	13553.5	13584.3	13491.9	13464.2	13418.0
10634.0	25°	10754.1	10975.9	11400.8	12063.0	12712.8	12845.2	12829.8	12746.6	12697.4
9642.4	27.5°	9744.0	9965.7	10350.7	10948.1	11644.1	12069.1	12109.2	11976.7	11973.7
8758.5	30°	8832.4	9137.3	9429.9	9916.5	10590.9	11228.4	11296.1	11203.7	11213.0
7948.6	32.5°	8117.9	8370.5	8619.9	8946.4	9506.9	10249.1	10513.9	10427.7	10393.8
7274.1	35°	7388.1	7560.5	7816.1	8114.9	8496.7	9232.8	9691.6	9627.0	9593.1
6362.5	37.5°	6556.6	6852.2	7037.0	7372.7	7671.4	8256.5	8903.3	8894.0	8823.2
5586.5	40°	5703.5	6014.5	6294.8	6633.6	6864.5	7329.6	8047.1	8044.0	8053.3
4782.7	42.5°	4930.5	5216.9	5555.7	5925.2	6147.0	6485.7	7255.6	7298.8	7351.1
4120.6	45°	4231.4	4490.1	4804.2	5253.9	5521.8	5715.8	6399.5	6596.6	6593.5
3529.3	47.5°	3603.2	3846.5	4111.3	4548.6	4890.5	5066.0	5632.7	5912.9	5894.4
2894.9	50°	3024.2	3239.8	3517.0	3834.2	4293.0	4447.0	4868.9	5238.5	5210.8
2306.7	52.5°	2432.9	2731.6	2965.7	3255.2	3738.7	3889.6	4216.0	4576.4	4554.8
1730.8	55°	1897.1	2186.5	2469.9	2719.3	3125.8	3350.7	3584.7	3954.3	3948.1
1355.0	57.5°	1435.1	1752.3	2020.2	2257.4	2580.7	2857.9	3045.8	3381.4	3424.6
927.0	60°	1062.5	1305.8	1595.3	1860.1	2115.7	2402.1	2528.4	2857.9	2876.4
634.4	62.5°	723.7	991.6	1275.0	1515.2	1706.1	2001.8	2115.7	2386.7	2420.6
406.5	65°	502.0	674.4	997.8	1170.3	1404.3	1656.8	1770.8	1986.4	2054.1
234.1	67.5°	332.6	480.4	779.1	936.2	1167.2	1339.6	1484.4	1659.9	1733.8
147.8	70°	181.7	354.2	557.4	739.1	939.3	1105.6	1247.3	1388.9	1453.6
67.8	72.5°	123.2	237.1	388.0	585.1	757.6	920.8	1047.1	1151.8	1154.9
40.0	75°	61.6	160.1	295.6	452.7	591.3	751.4	865.4	927.0	853.1
24.6	77.5°	37.0	117.0	240.2	363.4	480.4	606.7	671.4	705.2	585.1
18.5	80°	21.6	83.2	187.9	289.5	332.6	446.5	508.1	517.4	391.1
12.3	82.5°	15.4	61.6	147.8	212.5	203.3	314.1	381.9	369.6	249.5
9.2	85°	9.2	43.1	92.4	132.4	123.2	206.3	221.7	227.9	144.7
6.2	87.5°	6.2	24.6	49.3	70.8	58.5	89.3	89.3	107.8	70.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
16642.4  
*16229.7*  
16297.5  
16100.4  
15829.4  
15496.8  
15105.7  
14637.5  
14012.4  
13405.7  
12645.0  
11967.5  
11166.8  
10396.9  
9546.9  
8881.7  
8053.3  
7323.4  
6599.7  
5900.6  
5235.4  
4601.0  
3963.5  
3406.1  
2904.1  
2426.8  
2038.7  
1724.6  
1429.0  
1127.1  
797.6  
563.6  
366.5  
231.0  
132.4  
61.6  
0.0

(END OF REPORT)