

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: P638069

Luminaire Tested: **IFLD-L-SA8C-722-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638069  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-722-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28705.2 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

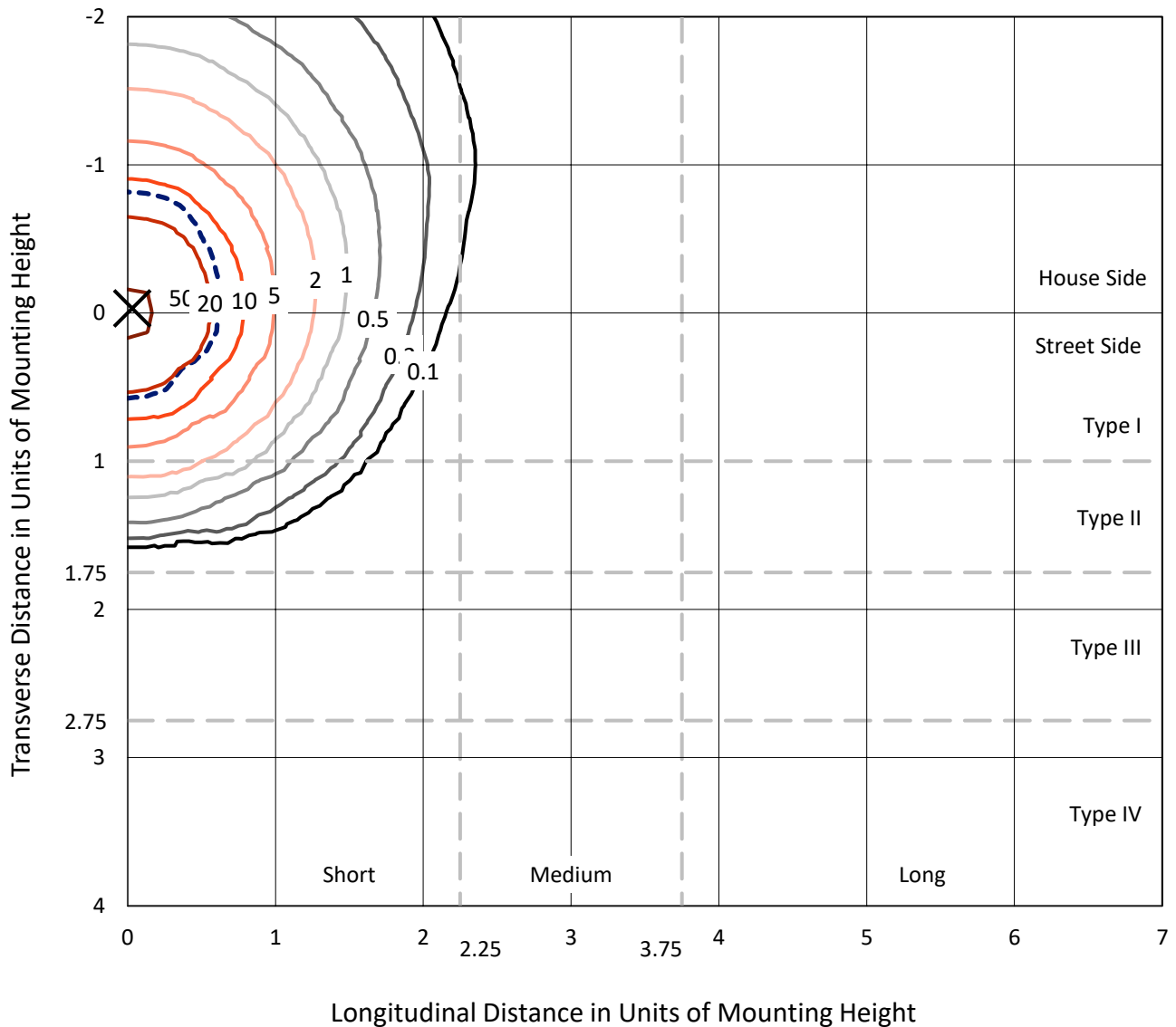
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

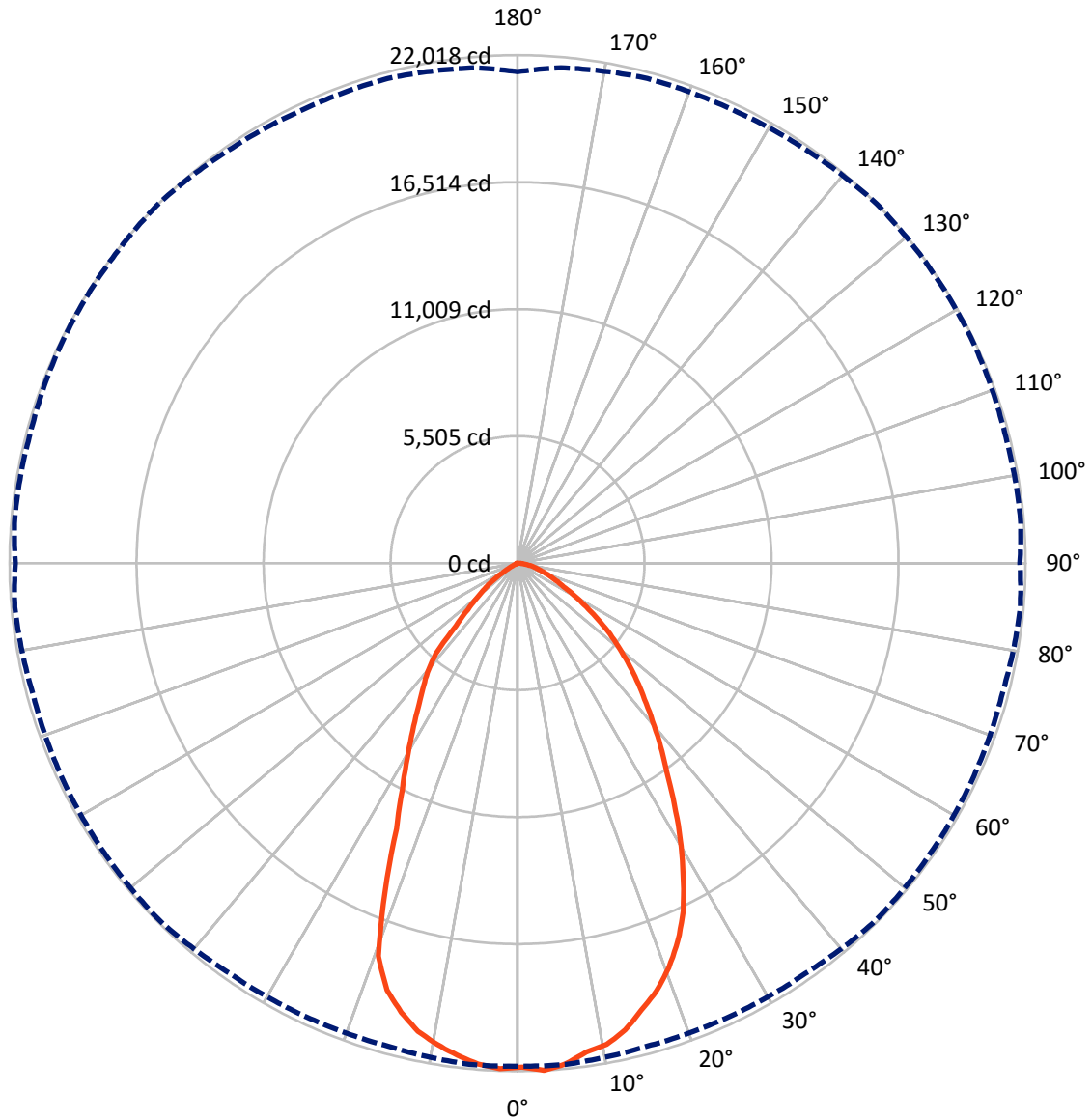
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 54.6 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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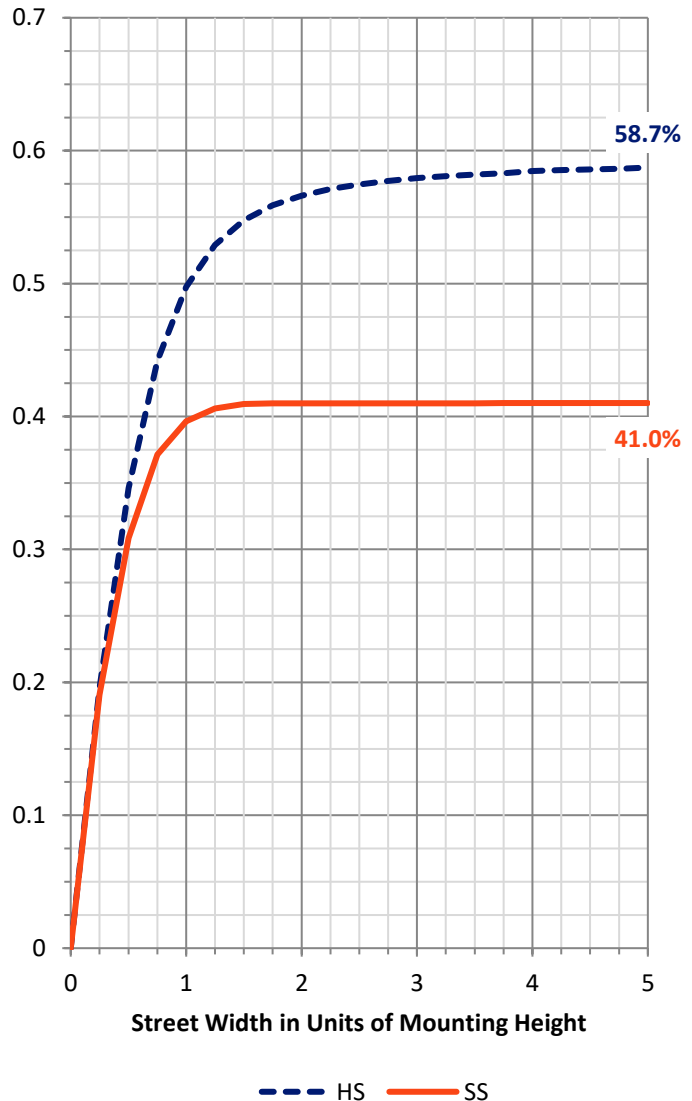
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17000.7	0.0	17000.7
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11704.5	0.0	11704.5
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	28705.2	0.0	28705.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2048.7	7.1
10°-20°	5493.7	19.1
20°-30°	6699.8	23.3
30°-40°	6116.9	21.3
40°-50°	4420.5	15.4
50°-60°	2413.6	8.4
60°-70°	998.0	3.5
70°-80°	404.2	1.4
80°-90°	109.9	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°	28705.2	100.0
0°-180°	28705.2	100.0



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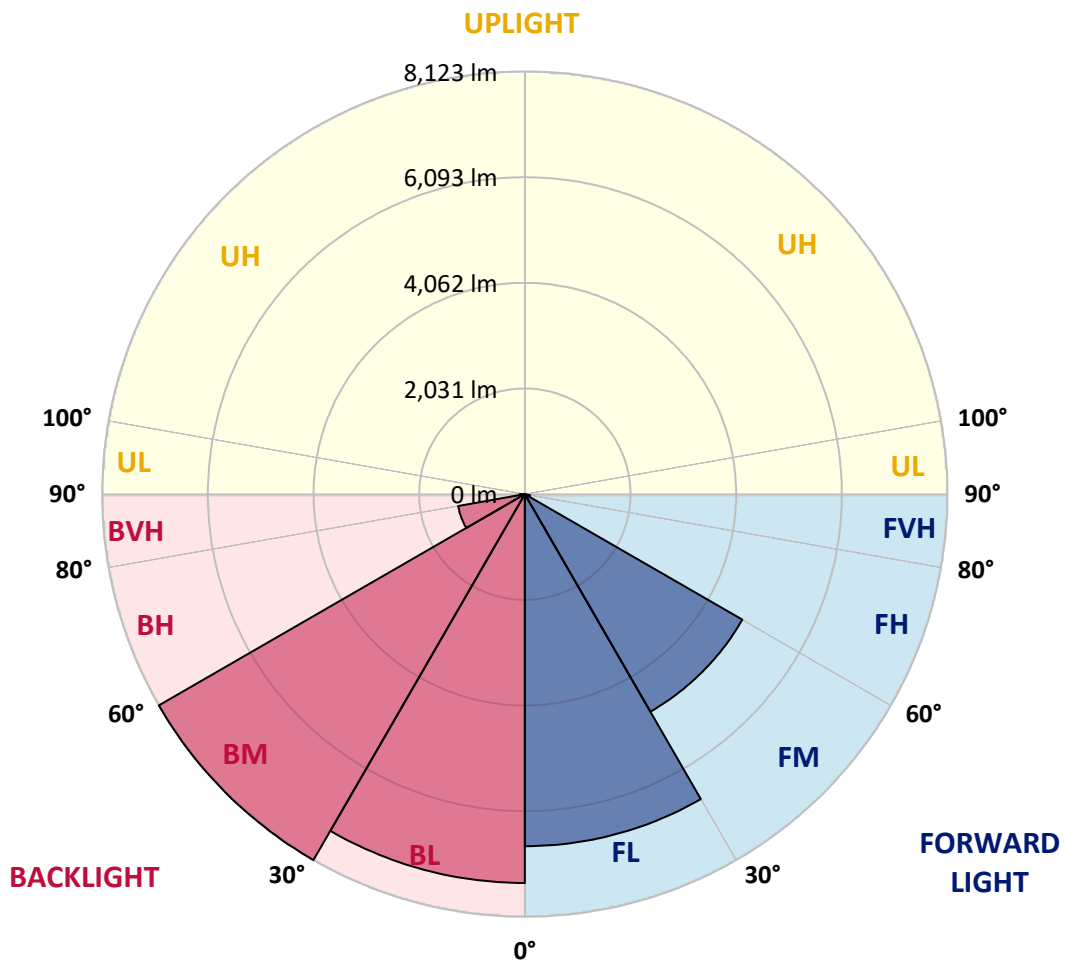
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6766.9	23.6			
FM (30°-60°)	4827.7	16.8			
FH (60°-80°)	101.2	0.4			G0/660
FVH (80°-90°)	8.8	0.0			G0/10
BL (0°-30°)	7475.3	26.0	B5		
BM (30°-60°)	8123.3	28.3	B4/8500		
BH (60°-80°)	1301.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	101.1	0.4			G2/225
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°	21844.6	21844.6	21844.6	21844.6	21844.6	21844.6	21844.6	21844.6	21844.6	21844.6
2.5°	21804.2	21832.5	21678.9	21695.0	21723.3	21929.5	21876.9	21828.4	21759.7	21876.9
5°	21775.9	21792.1	21630.4	21573.8	21598.0	21784.0	21614.2	21614.2	21598.0	21577.8
7.5°	21557.6	21565.7	21440.4	21339.3	21404.0	21488.9	21363.6	21424.2	21335.3	21404.0
10°	21230.2	21177.6	21028.1	20999.8	21072.5	21153.4	21068.5	21125.1	21044.2	21096.8
12.5°	20749.1	20668.3	20547.0	20510.6	20636.0	20745.1	20676.4	20644.0	20538.9	20668.3
15°	18893.7	18833.1	19108.0	19589.0	20021.5	20114.5	20041.7	20074.1	19855.8	19892.2
17.5°	15550.7	15437.6	15732.6	16872.6	18497.6	19354.5	19289.9	19079.7	18756.3	18829.1
20°	14131.9	14099.6	14067.2	14338.1	15473.9	18073.1	18162.1	17628.5	17167.7	17066.6
22.5°	13331.5	13319.4	13287.1	13347.7	13646.8	15316.3	16334.9	15841.8	15534.6	15506.3
25°	12599.9	12579.6	12482.6	12559.4	12559.4	12656.5	13962.1	14261.2	13990.4	13958.1
27.5°	11856.1	11819.7	11803.5	11839.9	11654.0	10999.1	11330.6	12789.8	12648.4	12656.5
30°	11051.7	11039.5	10995.1	11071.9	10497.9	9685.4	9475.2	11455.9	11484.2	11476.1
32.5°	9855.1	9907.7	10109.8	10194.7	9248.8	8577.8	8226.1	9911.7	10489.8	10477.7
35°	7158.9	7158.9	7817.8	9042.6	8104.8	7599.5	7409.5	8403.9	9507.5	9547.9
37.5°	5885.6	5905.8	6035.2	6593.0	6993.2	6815.3	6758.7	7074.0	8246.3	8311.0
40°	5295.4	5295.4	5295.4	5065.0	5052.9	6140.3	6107.9	6006.9	7122.5	7264.0
42.5°	4757.8	4769.9	4778.0	4195.9	3872.5	5307.5	5234.8	5081.2	6116.0	6281.7
45°	4204.0	4224.2	4248.5	3508.7	3367.2	3820.0	4430.4	4260.6	5121.6	5335.8
47.5°	2566.9	2599.2	3149.0	2975.1	2991.3	2946.8	3613.8	3585.5	4200.0	4503.1
50°	1734.1	1746.3	1798.8	1887.8	2566.9	2316.2	2558.8	2967.1	3189.4	3650.2
52.5°	1455.2	1475.4	1346.1	1224.8	1685.6	1811.0	1786.7	2203.1	2292.0	2862.0
55°	1022.7	1087.4	1026.7	1014.6	958.0	1406.7	1354.2	1693.7	1750.3	2174.8
57.5°	105.1	121.3	210.2	755.9	626.6	796.3	966.1	1241.0	1297.6	1604.8
60°	8.1	8.1	20.2	105.1	456.8	477.0	667.0	764.0	873.1	1119.7
62.5°	0.0	4.0	8.1	16.2	72.8	254.7	335.5	400.2	525.5	723.6
65°	0.0	0.0	4.0	12.1	16.2	97.0	129.4	210.2	287.0	448.7
67.5°	0.0	0.0	4.0	8.1	12.1	24.3	44.5	76.8	153.6	254.7
70°	0.0	0.0	4.0	8.1	12.1	20.2	32.3	48.5	68.7	137.4
72.5°	0.0	0.0	4.0	4.0	8.1	20.2	24.3	32.3	48.5	68.7
75°	0.0	0.0	4.0	4.0	12.1	24.3	20.2	24.3	32.3	44.5
77.5°	0.0	0.0	4.0	8.1	12.1	24.3	20.2	24.3	24.3	28.3
80°	0.0	0.0	4.0	8.1	16.2	28.3	24.3	24.3	20.2	20.2
82.5°	0.0	0.0	4.0	12.1	16.2	36.4	36.4	32.3	16.2	12.1
85°	0.0	0.0	8.1	16.2	24.3	40.4	40.4	32.3	12.1	8.1
87.5°	0.0	0.0	8.1	12.1	20.2	28.3	40.4	32.3	12.1	4.0
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°
21844.6	0°	21844.6	21844.6	21844.6	21844.6	21844.6	21844.6	21844.6	21844.6	21844.6
21775.9	2.5°	21885.0	21860.8	21941.6	21974.0	22018.4	21848.7	21743.6	21747.6	21553.6
21529.3	5°	21658.7	21662.7	21767.8	21759.7	21804.2	21711.2	21670.8	21602.1	21432.3
21218.1	7.5°	21371.7	21335.3	21436.3	21513.1	21400.0	21464.6	21371.7	21404.0	21302.9
20943.2	10°	21149.3	21064.4	21157.4	21210.0	21214.0	21149.3	21060.4	20975.5	20939.1
20514.7	12.5°	20656.2	20547.0	20704.7	20777.4	20765.3	20640.0	20538.9	20559.2	20441.9
19762.8	15°	19977.1	19981.1	20094.3	20163.0	20098.3	20070.0	20078.1	20029.6	19928.6
18724.0	17.5°	18938.2	18998.8	19298.0	19463.7	19500.1	19443.5	19415.2	19358.6	19257.5
17066.6	20°	17208.1	17571.9	18105.5	18618.9	18719.9	18703.7	18602.7	18578.4	18521.8
15425.4	22.5°	15688.2	15959.0	16577.5	17377.9	17790.2	17830.6	17709.3	17673.0	17612.3
13958.1	25°	14115.7	14406.8	14964.6	15833.7	16686.6	16860.4	16840.2	16731.1	16666.4
12656.5	27.5°	12789.8	13080.9	13586.2	14370.4	15283.9	15841.8	15894.3	15720.5	15716.5
11496.3	30°	11593.3	11993.5	12377.5	13016.2	13901.5	14738.2	14827.2	14705.9	14718.0
10433.2	32.5°	10655.5	10987.0	11314.4	11742.9	12478.6	13452.8	13800.4	13687.2	13642.8
9547.9	35°	9697.5	9923.9	10259.4	10651.5	11152.7	12118.8	12721.1	12636.2	12591.8
8351.4	37.5°	8606.1	8994.1	9236.7	9677.3	10069.4	10837.4	11686.3	11674.2	11581.2
7332.7	40°	7486.3	7894.6	8262.5	8707.1	9010.3	9620.7	10562.5	10558.5	10570.6
6277.7	42.5°	6471.7	6847.7	7292.3	7777.4	8068.4	8513.1	9523.7	9580.3	9649.0
5408.6	45°	5554.1	5893.7	6306.0	6896.2	7247.9	7502.5	8399.9	8658.6	8654.6
4632.5	47.5°	4729.5	5048.8	5396.5	5970.5	6419.2	6649.6	7393.4	7761.2	7737.0
3799.8	50°	3969.5	4252.5	4616.3	5032.7	5635.0	5837.1	6390.9	6876.0	6839.6
3027.7	52.5°	3193.4	3585.5	3892.7	4272.7	4907.4	5105.4	5533.9	6006.9	5978.6
2271.8	55°	2490.1	2870.0	3241.9	3569.4	4102.9	4398.0	4705.2	5190.3	5182.2
1778.6	57.5°	1883.7	2300.1	2651.8	2963.0	3387.5	3751.3	3997.8	4438.4	4495.0
1216.7	60°	1394.6	1713.9	2093.9	2441.6	2777.1	3153.0	3318.7	3751.3	3775.5
832.7	62.5°	949.9	1301.6	1673.5	1988.8	2239.4	2627.5	2777.1	3132.8	3177.3
533.6	65°	658.9	885.3	1309.7	1536.1	1843.3	2174.8	2324.3	2607.3	2696.2
307.2	67.5°	436.6	630.6	1022.7	1228.9	1532.0	1758.4	1948.4	2178.8	2275.8
194.0	70°	238.5	464.9	731.7	970.2	1232.9	1451.2	1637.1	1823.1	1908.0
88.9	72.5°	161.7	311.3	509.3	768.0	994.4	1208.6	1374.4	1511.8	1515.9
52.5	75°	80.8	210.2	388.1	594.2	776.1	986.3	1135.9	1216.7	1119.7
32.3	77.5°	48.5	153.6	315.3	477.0	630.6	796.3	881.2	925.7	768.0
24.3	80°	28.3	109.1	246.6	380.0	436.6	586.1	667.0	679.1	513.4
16.2	82.5°	20.2	80.8	194.0	278.9	266.8	412.3	501.2	485.1	327.4
12.1	85°	12.1	56.6	121.3	173.8	161.7	270.8	291.0	299.1	190.0
8.1	87.5°	8.1	32.3	64.7	93.0	76.8	117.2	117.2	141.5	93.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
21844.6  
**21302.9**  
21391.9  
21133.2  
20777.4  
20340.9  
19827.5  
19213.1  
18392.5  
17596.1  
16597.7  
15708.4  
14657.4  
13646.8  
12531.1  
11658.0  
10570.6  
9612.6  
8662.7  
7745.1  
6871.9  
6039.2  
5202.4  
4470.8  
3811.9  
3185.3  
2676.0  
2263.7  
1875.6  
1479.5  
1047.0  
739.7  
481.0  
303.2  
173.8  
80.8  
0.0

(END OF REPORT)