

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: P637383

Luminaire Tested: **IFLD-S-SA3D-740-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637383  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22479.2 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

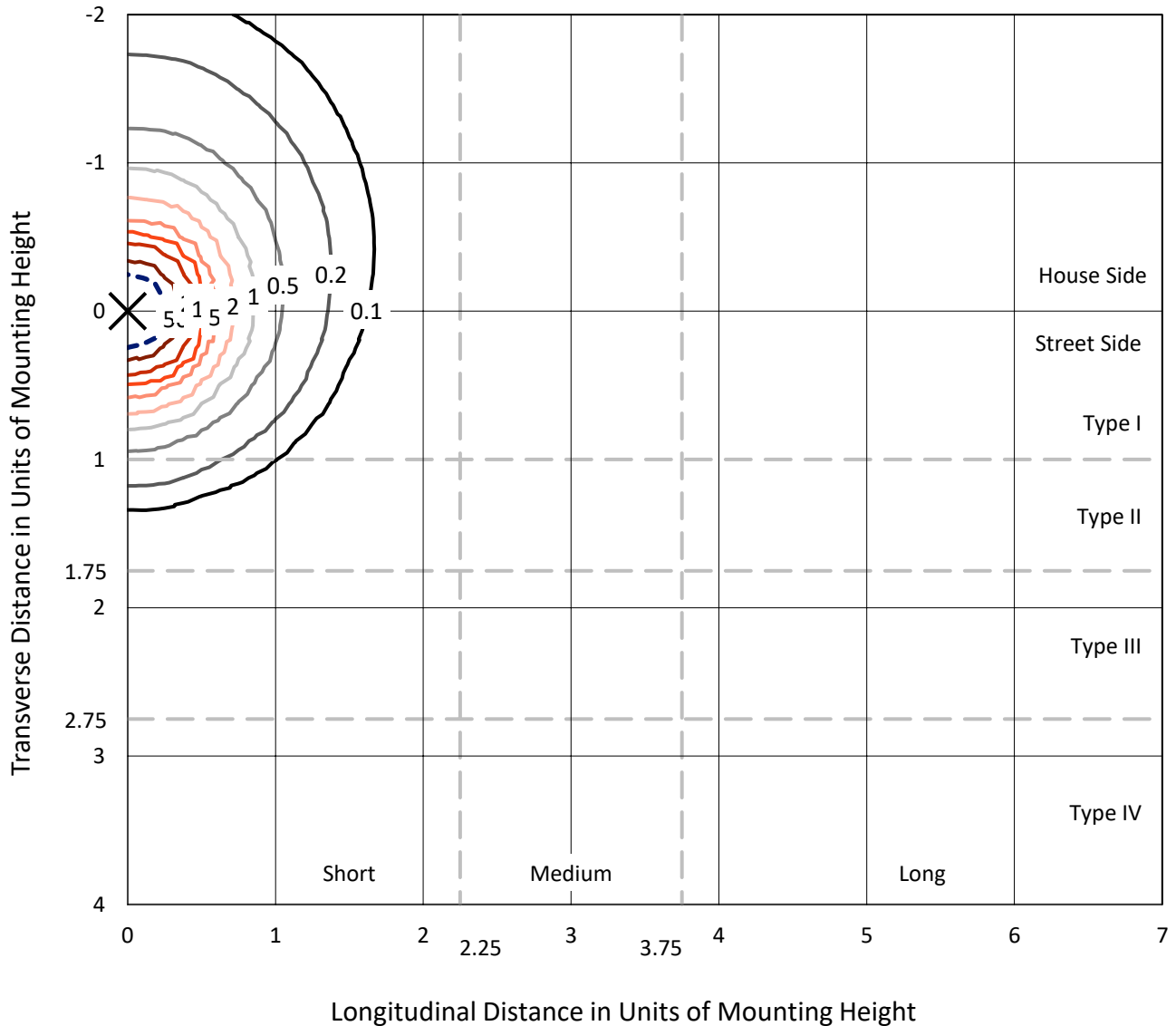
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

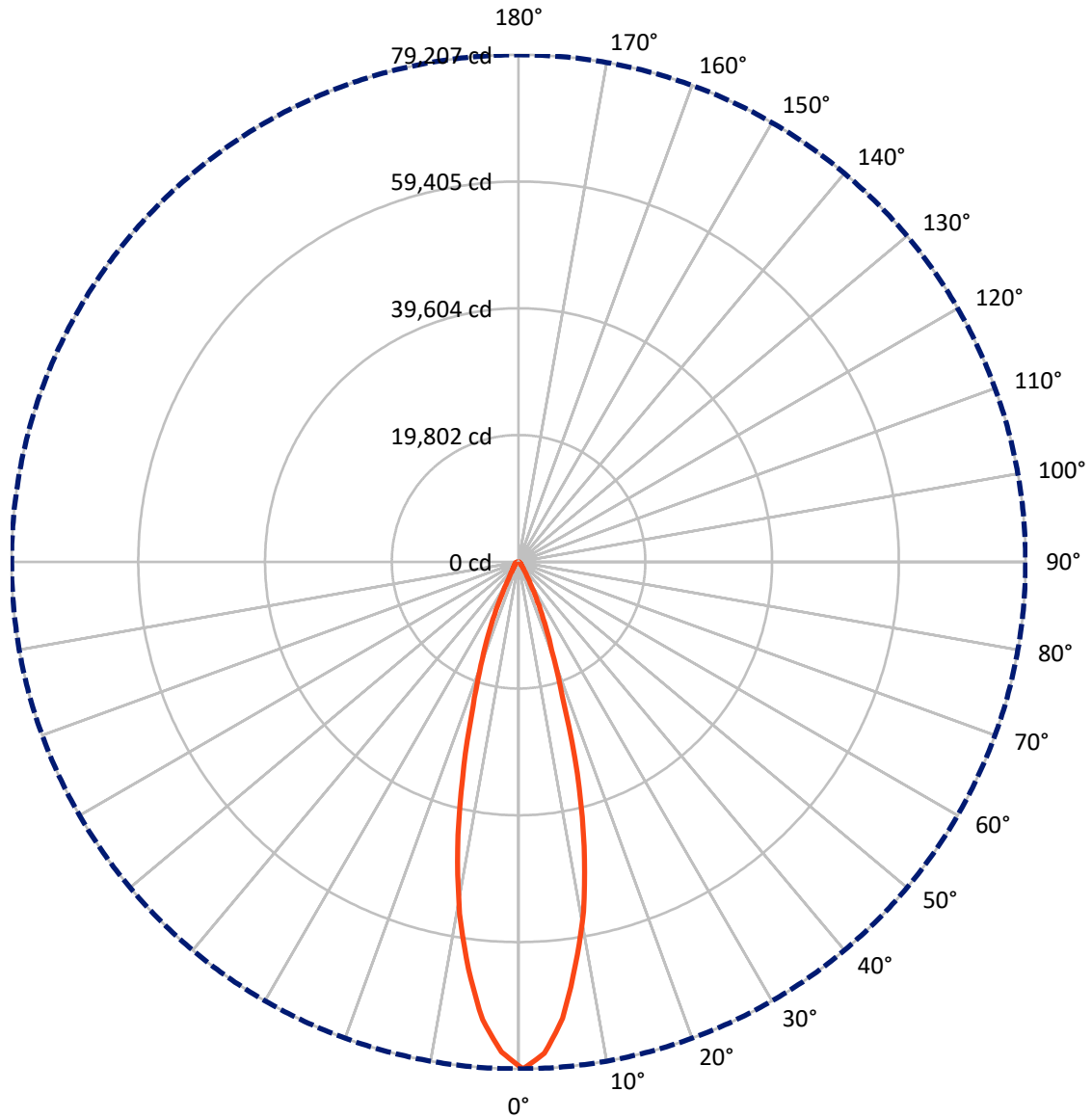
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 198 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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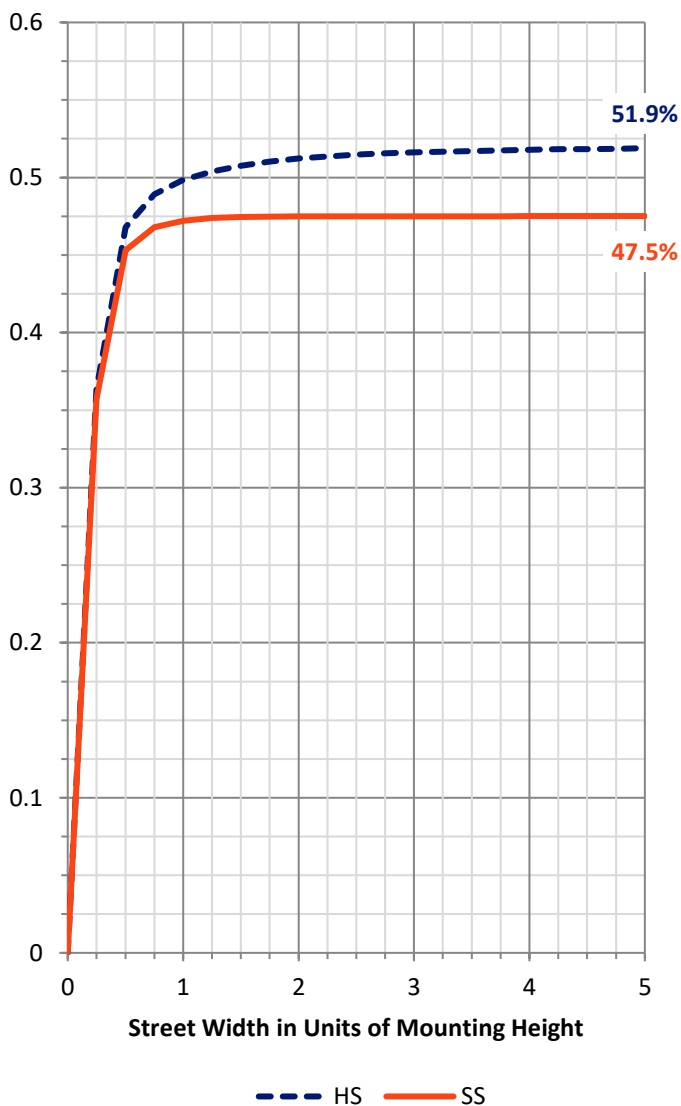
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11852.5	0.0	11852.5
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	10626.6	0.0	10626.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	22479.2	0.0	22479.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6392.7	28.4
10°-20°	9681.7	43.1
20°-30°	4085.7	18.2
30°-40°	1065.6	4.7
40°-50°	539.0	2.4
50°-60°	352.3	1.6
60°-70°	211.1	0.9
70°-80°	111.0	0.5
80°-90°	40.1	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°	22479.2	100.0
0°-180°	22479.2	100.0

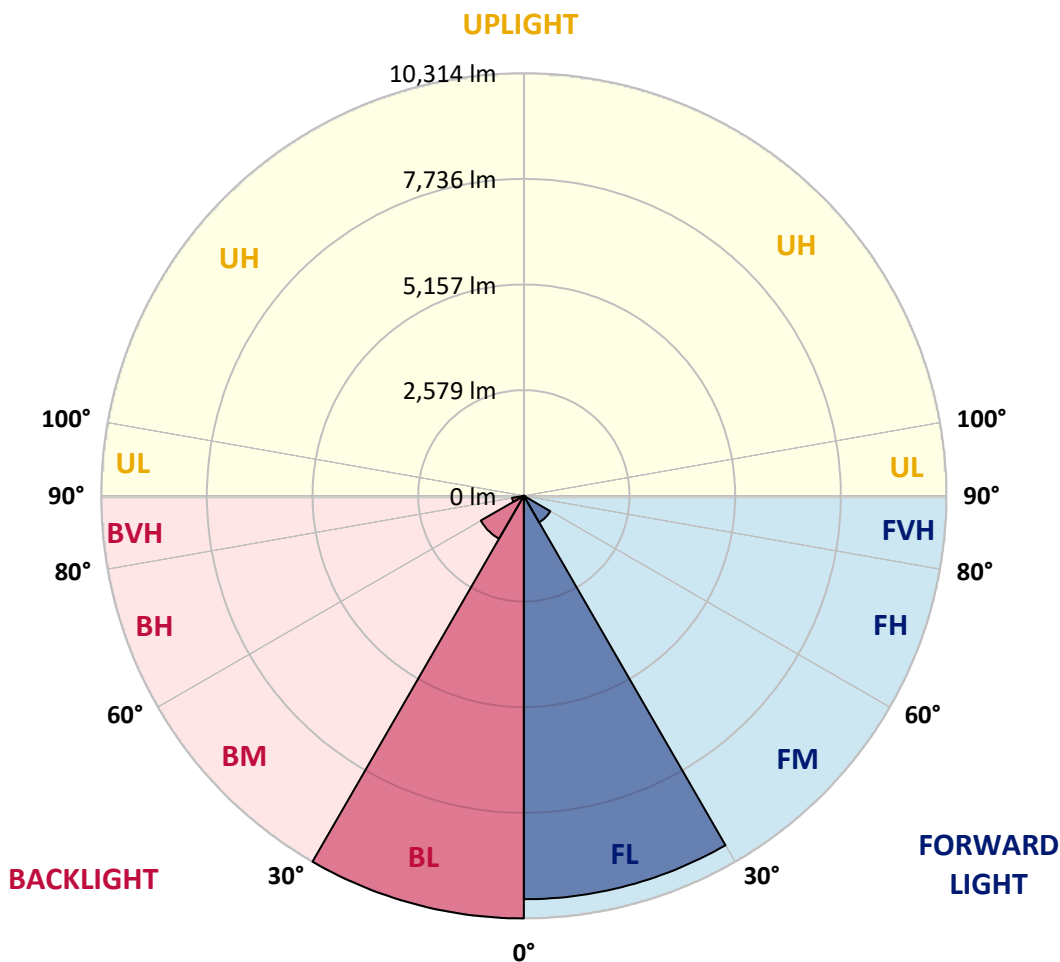


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9845.7	43.8			
FM (30°-60°)	745.6	3.3			
FH (60°-80°)	30.4	0.1			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	10314.4	45.9	B5		
BM (30°-60°)	1211.2	5.4	B2/2500		
BH (60°-80°)	291.7	1.3	B1/500		G0/660
BVH (80°-90°)	35.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	79207.0	79207.0	79207.0	79207.0	79207.0	79207.0	79207.0	79207.0	79207.0	79207.0
2.5°	76899.7	76942.6	76783.6	77126.9	76859.3	77576.2	77220.3	77775.7	77588.9	77899.4
5°	71648.8	71578.2	71532.7	72065.4	71911.4	72681.3	72189.1	72027.5	72527.3	72436.5
7.5°	63719.6	63906.4	63800.3	63939.2	64017.4	64895.9	65173.6	64956.5	64964.1	65090.3
10°	55590.8	55315.7	54924.4	55184.4	55734.7	56118.4	55964.5	56282.5	56211.8	56512.3
12.5°	45589.0	45806.1	45586.5	45354.2	46316.0	46210.0	46477.6	46651.8	46215.0	47187.0
15°	34340.0	34453.6	34721.2	34703.6	35443.2	35592.2	35556.8	35741.1	35400.3	35561.9
17.5°	22061.1	22444.9	23164.3	24381.1	25749.4	25908.4	25868.0	25716.5	25552.4	25370.7
20°	14818.5	14778.1	15038.1	15394.1	18226.5	18976.3	18953.5	18478.9	17792.3	17661.0
22.5°	10380.5	10456.3	10420.9	10774.3	11360.0	13427.5	13172.6	12690.4	12465.7	12319.3
25°	6828.6	6800.9	6977.6	7083.6	7586.0	7838.4	8732.1	8552.8	8207.0	8244.8
27.5°	4162.8	4198.2	4263.8	4354.7	4710.6	4629.8	5139.8	5207.9	5096.9	4978.2
30°	2554.7	2580.0	2633.0	2698.6	2822.3	2734.0	2875.3	3120.2	3079.8	2996.5
32.5°	1734.3	1736.8	1774.7	1799.9	1784.8	1701.5	1746.9	1979.2	1984.2	1976.6
35°	1247.1	1247.1	1282.4	1302.6	1259.7	1191.5	1199.1	1343.0	1406.1	1418.7
37.5°	860.8	863.4	923.9	984.5	936.6	918.9	888.6	984.5	1085.5	1100.7
40°	653.8	651.3	681.6	727.0	732.1	699.3	709.4	770.0	873.5	886.1
42.5°	530.1	532.7	547.8	542.8	545.3	588.2	603.3	631.1	727.0	749.8
45°	446.8	449.4	456.9	431.7	421.6	487.2	507.4	522.6	603.3	631.1
47.5°	368.6	373.6	381.2	353.4	348.4	391.3	426.6	441.8	512.5	542.8
50°	265.1	270.1	297.9	282.7	297.9	308.0	355.9	378.7	426.6	467.0
52.5°	191.9	196.9	204.5	207.0	244.9	249.9	285.3	320.6	343.3	388.8
55°	151.5	156.5	151.5	146.4	179.2	207.0	219.6	257.5	275.2	328.2
57.5°	85.8	90.9	98.5	113.6	118.6	159.0	171.7	204.5	219.6	270.1
60°	15.1	17.7	27.8	68.2	83.3	101.0	128.7	156.5	176.7	212.1
62.5°	2.5	2.5	5.0	15.1	48.0	70.7	93.4	111.1	128.7	161.6
65°	0.0	0.0	2.5	5.0	12.6	40.4	50.5	65.6	88.4	116.1
67.5°	0.0	0.0	2.5	5.0	7.6	15.1	22.7	40.4	50.5	78.3
70°	0.0	0.0	2.5	5.0	7.6	10.1	12.6	17.7	30.3	48.0
72.5°	0.0	0.0	2.5	5.0	7.6	10.1	12.6	15.1	15.1	30.3
75°	0.0	0.0	2.5	5.0	7.6	12.6	15.1	15.1	12.6	12.6
77.5°	0.0	0.0	2.5	5.0	10.1	15.1	17.7	15.1	10.1	10.1
80°	0.0	0.0	5.0	7.6	12.6	17.7	22.7	17.7	10.1	5.0
82.5°	0.0	0.0	5.0	10.1	12.6	20.2	27.8	22.7	10.1	5.0
85°	0.0	0.0	2.5	7.6	15.1	20.2	27.8	20.2	10.1	2.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.6	15.1	12.6	5.0	2.5
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°
79207.0	0°	79207.0	79207.0	79207.0	79207.0	79207.0	79207.0	79207.0	79207.0	79207.0
77311.2	2.5°	77755.5	78159.4	78242.7	78131.6	78293.2	78002.9	77780.7	77205.1	76859.3
72408.7	5°	72875.7	72815.1	73236.7	73375.6	73357.9	73135.7	72825.2	72476.9	72138.6
64845.5	7.5°	65249.4	65327.6	65711.3	65956.2	65832.5	65554.8	65340.2	65077.7	64850.5
56620.8	10°	57138.3	56600.6	57077.7	57077.7	57408.4	56623.3	56696.5	56035.1	56065.4
47169.3	12.5°	47330.8	47525.2	47603.5	47828.2	47441.9	47025.4	46515.5	46414.5	46098.9
35253.9	15°	35761.3	36316.7	35839.6	36655.0	36261.1	35826.9	35748.7	34966.1	35213.5
25570.1	17.5°	25443.9	26057.3	26249.2	26716.2	26357.7	26100.3	25774.6	25537.3	25519.6
17900.8	20°	18042.2	18658.2	18799.6	19360.0	19319.6	19238.8	18963.6	18663.2	18337.6
12185.5	22.5°	12369.8	12872.2	13341.7	14096.5	14083.9	13846.6	13818.8	13394.7	13402.3
8232.2	25°	8318.1	8684.1	8795.2	9567.7	9653.5	9628.2	9484.3	9090.5	9239.5
5028.7	27.5°	5033.7	5354.4	5730.5	6003.1	6260.6	6220.2	6076.3	5856.7	5760.8
3021.8	30°	3102.5	3246.4	3385.3	3713.5	3867.5	3948.2	3880.1	3675.6	3690.7
1989.3	32.5°	2032.2	2153.4	2254.3	2461.3	2542.1	2691.1	2663.3	2620.4	2569.9
1431.4	35°	1481.9	1570.2	1638.4	1734.3	1837.8	1964.0	1984.2	1966.5	1946.3
1105.7	37.5°	1131.0	1221.8	1300.1	1340.5	1421.3	1519.7	1575.3	1572.7	1557.6
901.2	40°	918.9	987.1	1057.7	1110.8	1166.3	1239.5	1307.7	1315.2	1315.2
757.3	42.5°	767.4	825.5	896.2	951.7	992.1	1060.3	1131.0	1136.0	1131.0
641.2	45°	656.4	706.8	775.0	840.6	873.5	923.9	992.1	1007.3	997.2
550.3	47.5°	570.5	616.0	674.0	744.7	780.1	825.5	888.6	906.3	903.8
474.6	50°	489.7	542.8	600.8	658.9	704.3	747.2	807.8	828.0	820.4
403.9	52.5°	431.7	479.6	530.1	593.2	646.3	684.1	732.1	767.4	757.3
340.8	55°	361.0	419.1	472.1	525.1	590.7	631.1	676.6	719.5	709.4
287.8	57.5°	313.0	361.0	421.6	469.5	535.2	583.1	628.6	674.0	671.5
234.8	60°	262.5	313.0	371.1	421.6	482.2	535.2	580.6	631.1	636.2
176.7	62.5°	207.0	267.6	318.1	376.1	436.7	494.8	535.2	585.7	593.2
133.8	65°	156.5	219.6	275.2	330.7	391.3	454.4	489.7	532.7	540.2
98.5	67.5°	116.1	169.1	234.8	285.3	348.4	409.0	441.8	477.1	489.7
60.6	70°	88.4	128.7	196.9	244.9	310.5	358.5	393.8	424.1	434.2
40.4	72.5°	55.5	101.0	159.0	209.5	267.6	310.5	335.8	353.4	368.6
22.7	75°	37.9	78.3	128.7	179.2	222.2	255.0	277.7	292.8	305.5
10.1	77.5°	22.7	60.6	106.0	148.9	176.7	202.0	224.7	234.8	242.3
7.6	80°	12.6	45.4	88.4	121.2	138.8	156.5	174.2	186.8	191.9
5.0	82.5°	7.6	35.3	70.7	93.4	101.0	118.6	136.3	143.9	143.9
2.5	85°	5.0	25.2	48.0	68.2	73.2	85.8	90.9	95.9	101.0
2.5	87.5°	5.0	15.1	30.3	37.9	40.4	45.4	48.0	53.0	58.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
79207.0  
76604.3  
71759.9  
64080.5  
55770.1  
45811.1  
34966.1  
25050.1  
18196.2  
13255.9  
9004.7  
5677.5  
3625.1  
2552.2  
1938.8  
1550.0  
1300.1  
1125.9  
997.2  
898.7  
815.4  
754.8  
714.4  
674.0  
638.7  
598.3  
547.8  
494.8  
439.3  
366.0  
302.9  
239.8  
186.8  
141.4  
98.5  
55.5  
0.0

(END OF REPORT)