

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: P637915

Luminaire Tested: **IFLD-M-SA4D-740-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637915  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-740-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26379 lumens  
Efficiency: N/A  
Efficacy: 105.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

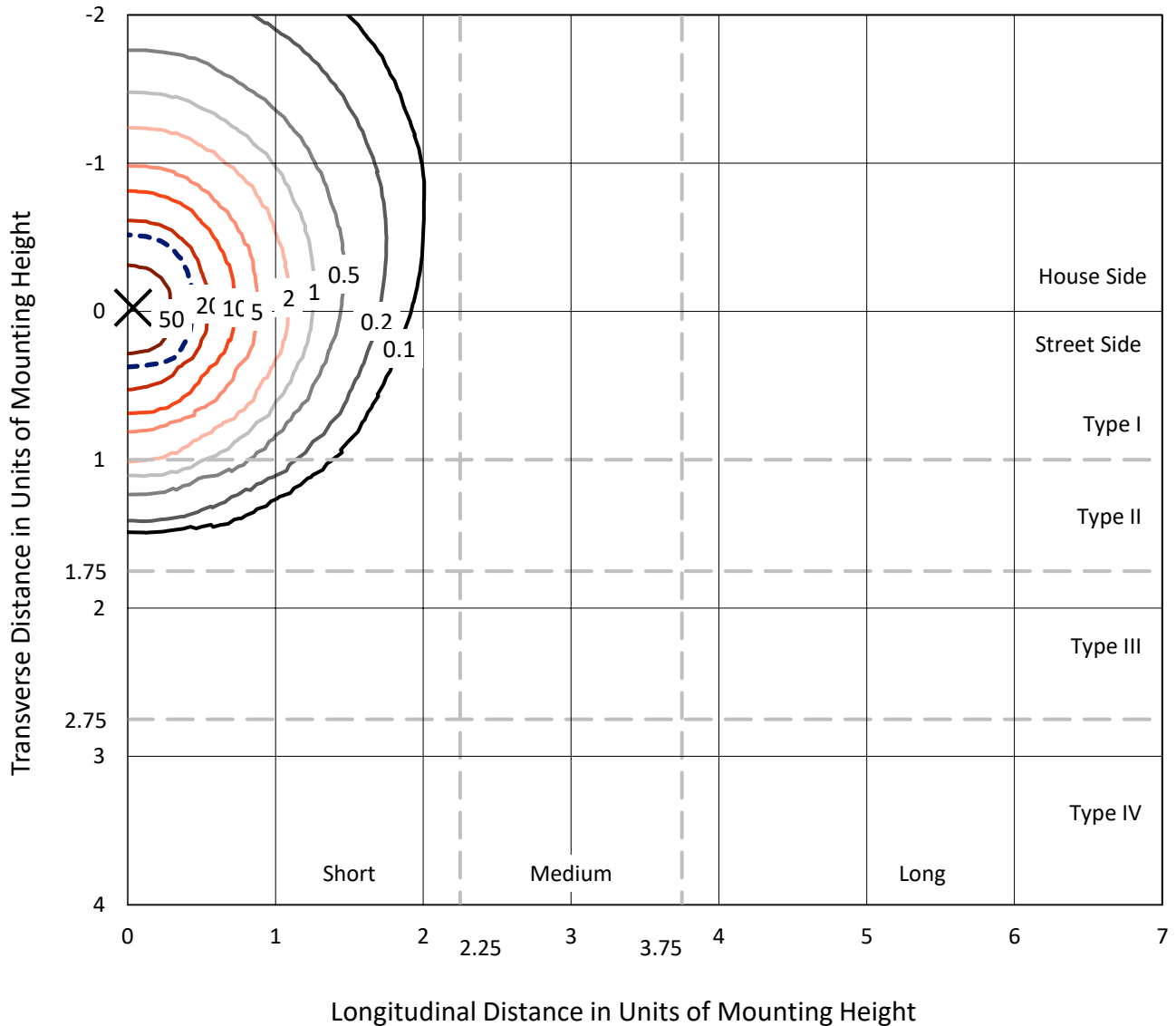
Input Watts (W): 249.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

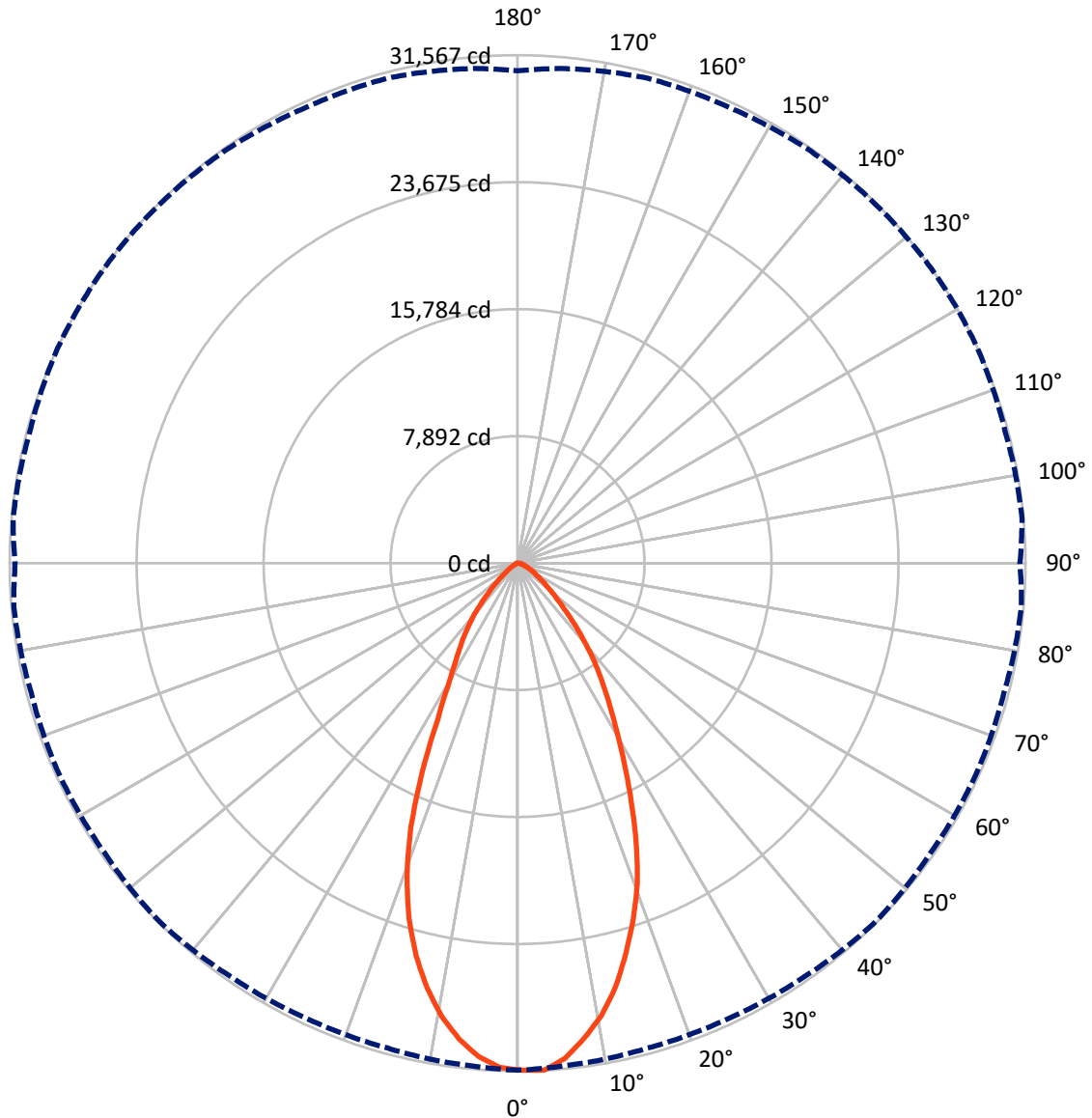
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 78.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14968.5	0.0	14968.5
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	11410.5	0.0	11410.5
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	26379.0	0.0	26379.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2861.8	10.8
10°-20°	6821.9	25.9
20°-30°	6948.0	26.3
30°-40°	5181.1	19.6
40°-50°	2706.7	10.3
50°-60°	1138.5	4.3
60°-70°	465.0	1.8
70°-80°	195.7	0.7
80°-90°	60.3	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°	26379.0	100.0
0°-180°	26379.0	100.0



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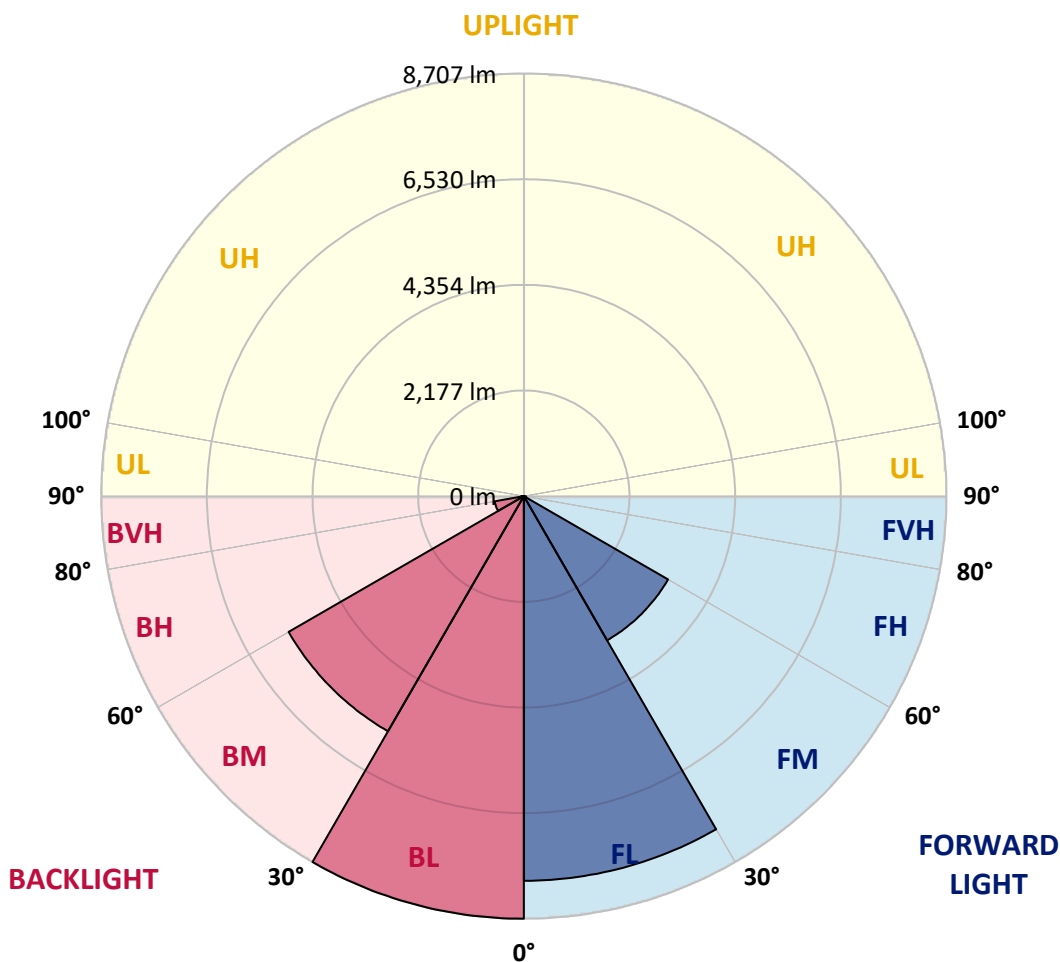
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7924.6	30.0			
FM (30°-60°)	3430.7	13.0			
FH (60°-80°)	49.6	0.2			G0/660
FVH (80°-90°)	5.6	0.0			G0/10
BL (0°-30°)	8707.2	33.0	B5		
BM (30°-60°)	5595.6	21.2	B4/8500		
BH (60°-80°)	611.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	54.7	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-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31516.5	31516.5	31516.5	31516.5	31516.5	31516.5	31516.5	31516.5	31516.5	31516.5
2.5°	31519.9	31391.1	31208.2	31191.2	31286.1	31492.8	31360.6	31367.4	31286.1	31425.0
5°	31025.2	30903.2	30777.8	30611.8	30750.7	30838.8	30771.0	30696.5	30591.4	30727.0
7.5°	30089.9	30022.2	29835.8	29761.3	29846.0	29944.2	29798.5	29778.2	29632.5	29808.7
10°	28660.0	28632.9	28449.9	28405.9	28480.4	28629.5	28565.1	28551.6	28460.1	28443.1
12.5°	27175.8	27070.8	26843.8	26830.2	26942.0	27165.7	26992.9	26826.8	26877.6	26921.7
15°	23353.6	23241.8	23804.3	24688.7	25152.9	25135.9	25186.8	24986.9	24925.9	24946.2
17.5°	18565.6	18375.9	18579.2	19948.1	22154.1	23434.9	23082.5	22652.2	22421.8	22269.3
20°	16024.3	16034.4	15997.1	16349.5	17725.3	20646.2	20561.5	19731.3	19429.7	19304.3
22.5°	14479.1	14421.5	14340.2	14452.0	14821.3	16535.9	17684.6	16922.2	16817.2	16678.2
25°	12964.4	12964.4	12866.2	12978.0	13083.0	13106.7	14258.8	14570.6	14367.3	14367.3
27.5°	11653.1	11585.3	11541.3	11592.1	11453.2	10785.6	10931.3	12527.3	12388.4	12303.7
30°	10351.9	10331.6	10257.0	10324.8	9809.7	9057.5	8752.5	10572.1	10717.8	10687.4
32.5°	8545.8	8627.1	8959.2	9064.3	8183.2	7576.7	7285.3	8776.2	9359.1	9335.3
35°	5807.9	5875.7	6255.2	7508.9	6783.8	6350.1	6265.4	6980.3	7939.3	8030.8
37.5°	4625.3	4615.1	4723.6	4947.2	5452.1	5347.1	5323.3	5509.7	6475.4	6516.1
40°	3812.1	3798.5	3795.1	3612.1	3486.8	4445.7	4381.3	4269.5	5106.5	5187.8
42.5°	3073.4	3086.9	3097.1	2697.3	2514.3	3429.2	3391.9	3276.7	4005.2	4100.1
45°	2412.6	2409.2	2429.6	2009.4	1958.6	2192.4	2534.6	2443.1	3022.5	3124.2
47.5°	1250.4	1294.4	1568.9	1555.3	1579.0	1555.3	1917.9	1894.2	2273.7	2436.3
50°	840.3	853.9	877.6	881.0	1243.6	1145.3	1301.2	1474.0	1592.6	1843.3
52.5°	650.6	660.8	599.8	562.5	762.4	847.1	853.9	1019.9	1111.4	1365.6
55°	362.6	406.6	437.1	440.5	420.2	626.9	623.5	755.6	826.8	996.2
57.5°	47.4	57.6	88.1	284.6	281.2	349.0	437.1	548.9	589.6	728.5
60°	3.4	6.8	10.2	44.1	186.4	203.3	298.2	342.2	410.0	511.7
62.5°	0.0	0.0	3.4	10.2	37.3	118.6	155.9	179.6	240.6	335.5
65°	0.0	0.0	3.4	6.8	13.6	44.1	61.0	98.3	142.3	206.7
67.5°	0.0	0.0	3.4	6.8	10.2	16.9	27.1	44.1	74.5	125.4
70°	0.0	0.0	3.4	6.8	10.2	13.6	20.3	27.1	40.7	67.8
72.5°	0.0	0.0	3.4	3.4	6.8	16.9	16.9	20.3	27.1	37.3
75°	0.0	0.0	3.4	6.8	10.2	16.9	16.9	16.9	20.3	23.7
77.5°	0.0	0.0	3.4	6.8	10.2	16.9	13.6	16.9	16.9	16.9
80°	0.0	0.0	3.4	6.8	10.2	16.9	20.3	16.9	13.6	13.6
82.5°	0.0	0.0	3.4	10.2	10.2	23.7	23.7	23.7	10.2	10.2
85°	0.0	0.0	6.8	10.2	16.9	27.1	27.1	20.3	10.2	6.8
87.5°	0.0	0.0	3.4	6.8	6.8	13.6	20.3	16.9	6.8	3.4
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°
31516.5	0°	31516.5	31516.5	31516.5	31516.5	31516.5	31516.5	31516.5	31516.5	31516.5
31221.7	2.5°	31472.5	31387.7	31547.0	31567.3	31499.6	31414.9	31218.3	31201.4	30859.1
30530.5	5°	30876.1	30737.2	30838.8	30906.6	30882.9	30791.4	30710.0	30635.5	30327.1
29408.9	7.5°	29764.7	29713.8	29761.3	29812.1	29910.4	29812.1	29778.2	29700.3	29395.3
28304.2	10°	28531.2	28436.4	28615.9	28592.2	28565.1	28538.0	28395.7	28409.2	28050.1
26799.7	12.5°	27016.6	26857.3	27030.1	27050.5	27030.1	26935.2	26776.0	26843.8	26515.1
24766.6	15°	24980.1	24963.1	25088.5	25169.8	25227.4	25125.8	25071.6	25105.5	24908.9
22150.7	17.5°	22479.4	22699.6	23109.6	23248.6	23251.9	23357.0	23326.5	23285.8	23140.1
19253.5	20°	19538.1	19961.7	20592.0	21239.2	21425.5	21337.4	21296.8	21371.3	21154.5
16532.5	22.5°	16823.9	17186.5	17918.4	18863.8	19409.4	19463.6	19453.4	19389.0	19304.3
14353.7	25°	14519.8	14841.7	15543.1	16407.2	17454.2	17610.1	17616.9	17596.5	17522.0
12378.2	27.5°	12574.8	12964.4	13350.7	14123.3	15238.1	15881.9	15800.6	15776.9	15749.8
10711.1	30°	10812.7	11304.1	11666.6	12147.8	13147.4	14018.3	14103.0	14062.3	13997.9
9332.0	32.5°	9416.7	9708.1	10168.9	10494.2	11212.6	12198.6	12523.9	12493.4	12435.8
8088.4	35°	8203.6	8318.8	8681.4	9043.9	9521.7	10477.3	10958.4	10890.7	10880.5
6590.6	37.5°	6756.7	7143.0	7342.9	7708.9	8044.3	8786.4	9450.5	9420.1	9423.4
5299.6	40°	5455.5	5679.1	6075.6	6383.9	6692.3	7234.5	7973.2	7993.5	7986.7
4103.5	42.5°	4188.2	4405.1	4821.8	5157.3	5431.8	5767.2	6472.0	6495.8	6526.3
3195.4	45°	3269.9	3408.8	3713.8	4062.8	4354.2	4557.5	5092.9	5245.4	5248.8
2477.0	47.5°	2538.0	2697.3	2914.1	3249.6	3534.2	3679.9	4069.6	4276.3	4266.1
1901.0	50°	1992.4	2138.1	2314.4	2578.7	2887.0	3002.2	3290.2	3493.6	3483.4
1433.3	52.5°	1524.8	1711.2	1867.1	2070.4	2372.0	2470.2	2676.9	2910.7	2876.8
1050.4	55°	1155.5	1345.2	1490.9	1660.4	1934.8	2060.2	2202.5	2388.9	2395.7
813.2	57.5°	870.8	1067.4	1199.5	1372.3	1579.0	1718.0	1826.4	2026.3	2022.9
555.7	60°	623.5	792.9	952.2	1131.8	1291.0	1450.3	1524.8	1714.6	1721.4
393.1	62.5°	450.7	609.9	762.4	918.3	1060.6	1216.5	1284.2	1433.3	1453.7
257.5	65°	315.1	427.0	603.2	721.8	881.0	996.2	1084.3	1213.1	1236.8
152.5	67.5°	203.3	308.4	477.8	582.8	728.5	826.8	918.3	1019.9	1050.4
98.3	70°	122.0	233.8	355.8	467.6	599.8	687.9	776.0	864.1	881.0
47.4	72.5°	77.9	162.6	257.5	379.5	481.2	576.0	654.0	718.4	667.5
30.5	75°	44.1	111.8	203.3	298.2	389.7	481.2	545.5	579.4	464.2
20.3	77.5°	27.1	81.3	166.0	240.6	301.6	386.3	427.0	447.3	332.1
13.6	80°	16.9	61.0	138.9	196.5	196.5	284.6	332.1	349.0	240.6
10.2	82.5°	13.6	44.1	108.4	149.1	132.2	213.5	260.9	264.3	169.4
6.8	85°	10.2	33.9	67.8	98.3	91.5	149.1	152.5	169.4	111.8
6.8	87.5°	6.8	20.3	40.7	57.6	50.8	71.2	81.3	91.5	61.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
31516.5  
*30591.4*  
30079.8  
29330.9  
27928.1  
26420.2  
24671.7  
22923.3  
20998.6  
19141.7  
17271.2  
15590.5  
13916.6  
12283.3  
10768.7  
9315.0  
7868.1  
6424.6  
5160.7  
4228.9  
3483.4  
2880.2  
2395.7  
2016.2  
1704.4  
1446.9  
1230.0  
1047.0  
867.5  
620.1  
440.5  
311.7  
223.6  
155.9  
101.7  
54.2  
0.0

(END OF REPORT)