

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: P637789

Luminaire Tested: **IFLD-S-SA3D-722-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637789  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-722-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (48) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14476.2 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

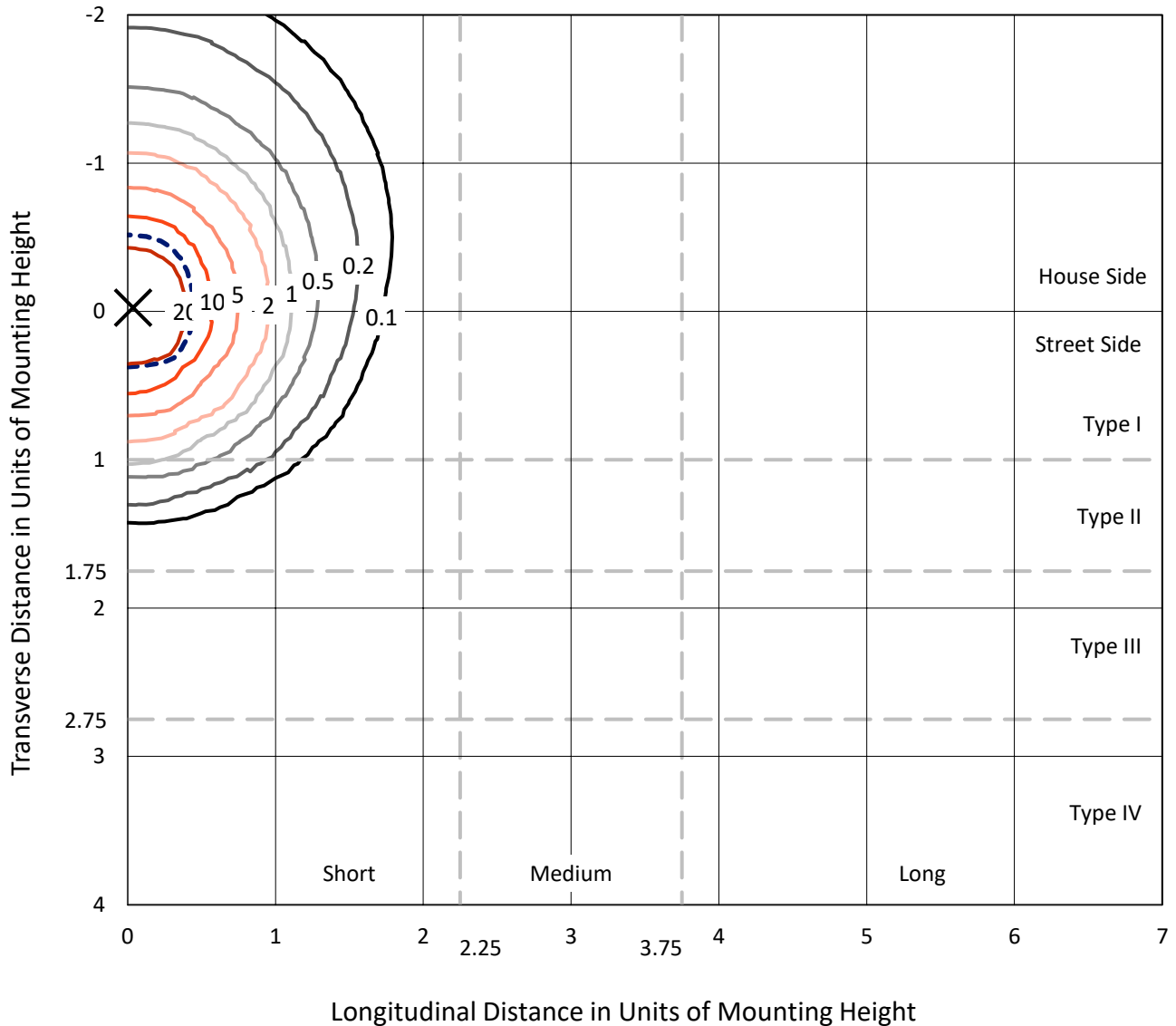
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

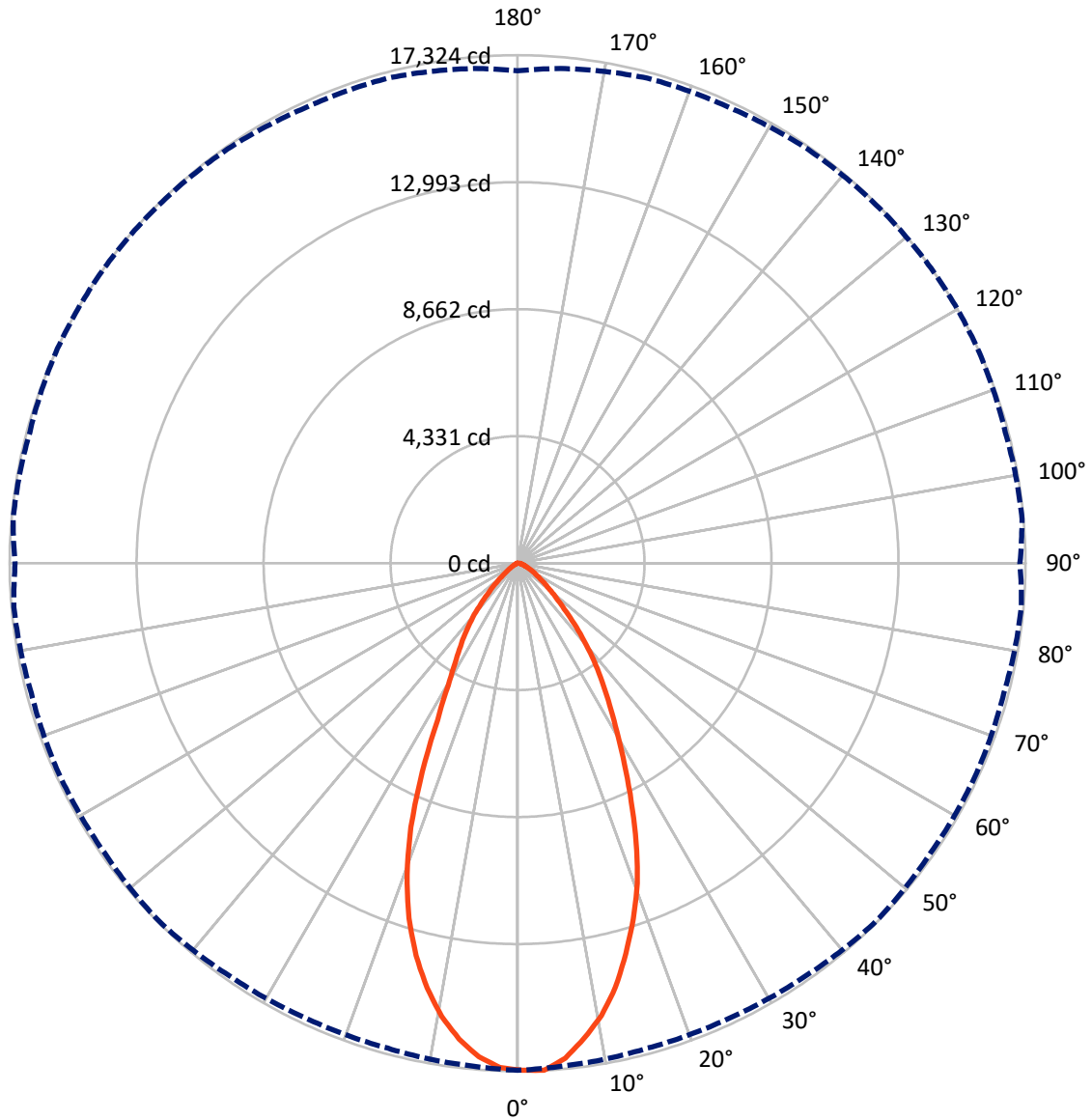
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 43.2 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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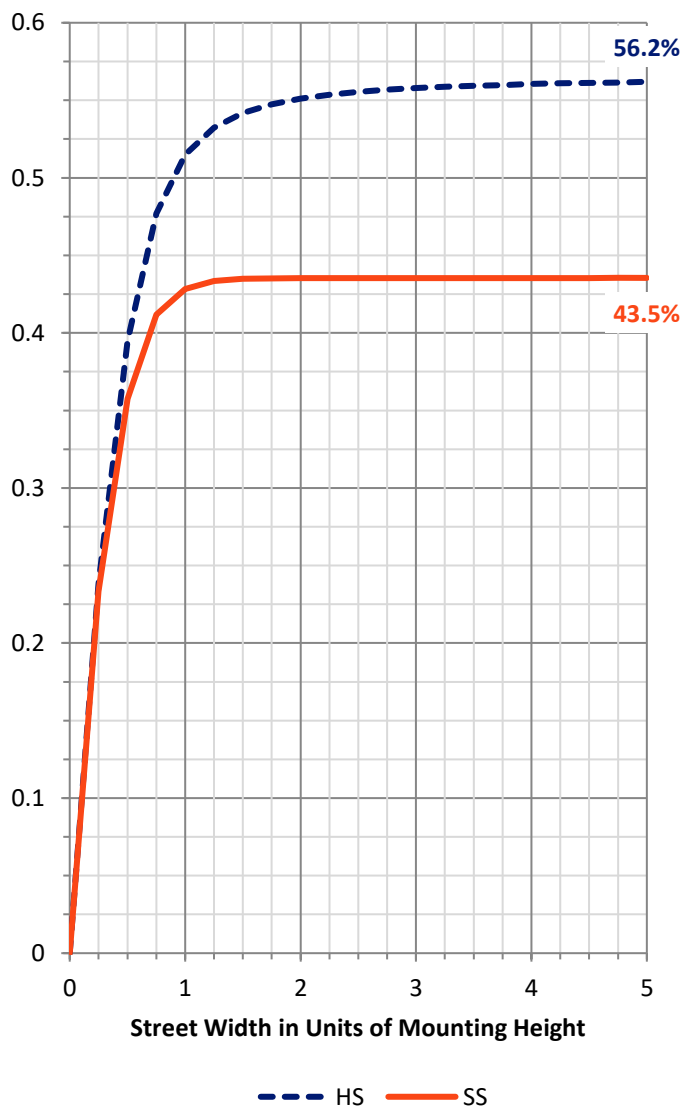
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8214.4	0.0	8214.4
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	6261.8	0.0	6261.8
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	14476.2	0.0	14476.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1570.5	10.8
10°-20°	3743.7	25.9
20°-30°	3812.9	26.3
30°-40°	2843.3	19.6
40°-50°	1485.4	10.3
50°-60°	624.8	4.3
60°-70°	255.2	1.8
70°-80°	107.4	0.7
80°-90°	33.1	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°	14476.2	100.0
0°-180°	14476.2	100.0



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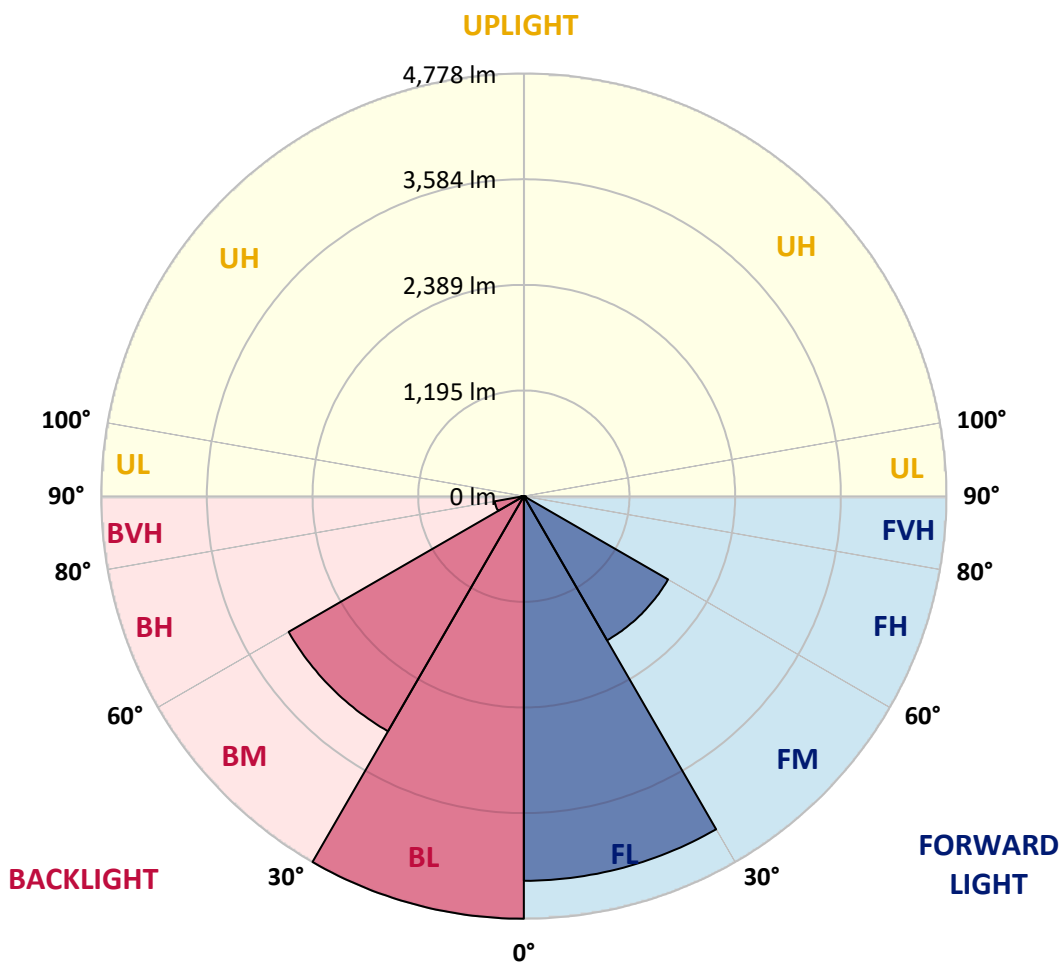
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4348.8	30.0			
FM (30°-60°)	1882.7	13.0			
FH (60°-80°)	27.2	0.2			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	4778.3	33.0	B4/5000		
BM (30°-60°)	3070.8	21.2	B3/5000		
BH (60°-80°)	335.3	2.3	B1/500		G1/500
BVH (80°-90°)	30.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17295.6	17295.6	17295.6	17295.6	17295.6	17295.6	17295.6	17295.6	17295.6	17295.6
2.5°	17297.4	17226.8	17126.4	17117.1	17169.1	17282.6	17210.0	17213.8	17169.1	17245.4
5°	17025.9	16959.0	16890.2	16799.1	16875.3	16923.7	16886.5	16845.6	16787.9	16862.3
7.5°	16512.7	16475.5	16373.2	16332.3	16378.8	16432.8	16352.8	16341.6	16261.7	16358.4
10°	15728.0	15713.1	15612.7	15588.5	15629.4	15711.3	15675.9	15668.5	15618.3	15609.0
12.5°	14913.5	14855.9	14731.3	14723.8	14785.2	14907.9	14813.1	14722.0	14749.9	14774.0
15°	12815.9	12754.6	13063.3	13548.6	13803.4	13794.1	13822.0	13712.2	13678.8	13689.9
17.5°	10188.4	10084.3	10195.9	10947.1	12157.7	12860.6	12667.2	12431.0	12304.6	12220.9
20°	8793.8	8799.3	8778.9	8972.3	9727.3	11330.2	11283.7	10828.1	10662.6	10593.8
22.5°	7945.8	7914.2	7869.6	7930.9	8133.6	9074.6	9704.9	9286.5	9228.9	9152.7
25°	7114.6	7114.6	7060.7	7122.0	7179.7	7192.7	7824.9	7996.0	7884.4	7884.4
27.5°	6395.0	6357.8	6333.6	6361.5	6285.2	5918.9	5998.9	6874.7	6798.5	6752.0
30°	5680.9	5669.7	5628.8	5666.0	5383.4	4970.5	4803.2	5801.8	5881.7	5865.0
32.5°	4689.8	4734.4	4916.6	4974.3	4490.8	4157.9	3998.0	4816.2	5136.0	5123.0
35°	3187.3	3224.4	3432.7	4120.7	3722.8	3484.8	3438.3	3830.7	4356.9	4407.1
37.5°	2538.3	2532.7	2592.2	2714.9	2992.0	2934.4	2921.3	3023.6	3553.6	3575.9
40°	2092.0	2084.5	2082.7	1982.3	1913.5	2439.7	2404.4	2343.0	2802.3	2847.0
42.5°	1686.6	1694.0	1699.6	1480.2	1379.8	1881.9	1861.4	1798.2	2198.0	2250.0
45°	1324.0	1322.1	1333.3	1102.7	1074.8	1203.1	1390.9	1340.7	1658.7	1714.5
47.5°	686.2	710.3	861.0	853.5	866.5	853.5	1052.5	1039.5	1247.8	1337.0
50°	461.2	468.6	481.6	483.5	682.5	628.5	714.1	808.9	874.0	1011.6
52.5°	357.0	362.6	329.1	308.7	418.4	464.9	468.6	559.7	609.9	749.4
55°	199.0	223.1	239.9	241.7	230.6	344.0	342.2	414.7	453.7	546.7
57.5°	26.0	31.6	48.3	156.2	154.3	191.5	239.9	301.2	323.6	399.8
60°	1.9	3.7	5.6	24.2	102.3	111.6	163.6	187.8	225.0	280.8
62.5°	0.0	0.0	1.9	5.6	20.5	65.1	85.5	98.6	132.0	184.1
65°	0.0	0.0	1.9	3.7	7.4	24.2	33.5	53.9	78.1	113.4
67.5°	0.0	0.0	1.9	3.7	5.6	9.3	14.9	24.2	40.9	68.8
70°	0.0	0.0	1.9	3.7	5.6	7.4	11.2	14.9	22.3	37.2
72.5°	0.0	0.0	1.9	1.9	3.7	9.3	9.3	11.2	14.9	20.5
75°	0.0	0.0	1.9	3.7	5.6	9.3	9.3	9.3	11.2	13.0
77.5°	0.0	0.0	1.9	3.7	5.6	9.3	7.4	9.3	9.3	9.3
80°	0.0	0.0	1.9	3.7	5.6	9.3	11.2	9.3	7.4	7.4
82.5°	0.0	0.0	1.9	5.6	5.6	13.0	13.0	13.0	5.6	5.6
85°	0.0	0.0	3.7	5.6	9.3	14.9	14.9	11.2	5.6	3.7
87.5°	0.0	0.0	1.9	3.7	3.7	7.4	11.2	9.3	3.7	1.9
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°
17295.6	0°	17295.6	17295.6	17295.6	17295.6	17295.6	17295.6	17295.6	17295.6	17295.6
17133.8	2.5°	17271.4	17224.9	17312.3	17323.5	17286.3	17239.8	17131.9	17122.6	16934.8
16754.5	5°	16944.1	16867.9	16923.7	16960.9	16947.8	16897.6	16853.0	16812.1	16642.9
16138.9	7.5°	16334.2	16306.3	16332.3	16360.2	16414.2	16360.2	16341.6	16298.9	16131.5
15532.7	10°	15657.3	15605.3	15703.8	15690.8	15675.9	15661.0	15582.9	15590.4	15393.3
14707.1	12.5°	14826.1	14738.7	14833.5	14844.7	14833.5	14781.5	14694.1	14731.3	14550.9
13591.4	15°	13708.5	13699.2	13768.0	13812.7	13844.3	13788.5	13758.7	13777.3	13669.5
12155.8	17.5°	12336.2	12457.1	12682.1	12758.3	12760.2	12817.8	12801.1	12778.8	12698.8
10565.9	20°	10722.1	10954.5	11300.4	11655.6	11757.9	11709.5	11687.2	11728.1	11609.1
9072.7	22.5°	9232.6	9431.6	9833.2	10352.1	10651.4	10681.2	10675.6	10640.3	10593.8
7877.0	25°	7968.1	8144.8	8529.7	9003.9	9578.5	9664.0	9667.7	9656.6	9615.7
6792.9	27.5°	6900.8	7114.6	7326.6	7750.6	8362.4	8715.7	8671.0	8658.0	8643.1
5878.0	30°	5933.8	6203.4	6402.4	6666.4	7215.0	7692.9	7739.4	7717.1	7681.8
5121.2	32.5°	5167.7	5327.6	5580.5	5759.0	6153.2	6694.3	6872.9	6856.1	6824.5
4438.7	35°	4501.9	4565.2	4764.1	4963.1	5225.3	5749.7	6013.8	5976.6	5971.0
3616.8	37.5°	3707.9	3919.9	4029.6	4230.5	4414.5	4821.8	5186.3	5169.5	5171.4
2908.3	40°	2993.9	3116.6	3334.2	3503.4	3672.6	3970.1	4375.5	4386.7	4382.9
2251.9	42.5°	2298.4	2417.4	2646.1	2830.2	2980.8	3164.9	3551.7	3564.7	3581.5
1753.5	45°	1794.5	1870.7	2038.1	2229.6	2389.5	2501.1	2794.9	2878.6	2880.4
1359.3	47.5°	1392.8	1480.2	1599.2	1783.3	1939.5	2019.5	2233.3	2346.7	2341.2
1043.2	50°	1093.4	1173.4	1270.1	1415.1	1584.3	1647.6	1805.6	1917.2	1911.6
786.6	52.5°	836.8	939.1	1024.6	1136.2	1301.7	1355.6	1469.0	1597.3	1578.7
576.5	55°	634.1	738.2	818.2	911.2	1061.8	1130.6	1208.7	1311.0	1314.7
446.3	57.5°	477.9	585.8	658.3	753.1	866.5	942.8	1002.3	1112.0	1110.1
305.0	60°	342.2	435.1	522.5	621.1	708.5	795.9	836.8	940.9	944.6
215.7	62.5°	247.3	334.7	418.4	503.9	582.0	667.6	704.8	786.6	797.7
141.3	65°	172.9	234.3	331.0	396.1	483.5	546.7	595.1	665.7	678.7
83.7	67.5°	111.6	169.2	262.2	319.8	399.8	453.7	503.9	559.7	576.5
53.9	70°	66.9	128.3	195.3	256.6	329.1	377.5	425.8	474.2	483.5
26.0	72.5°	42.8	89.3	141.3	208.3	264.1	316.1	358.9	394.2	366.3
16.7	75°	24.2	61.4	111.6	163.6	213.8	264.1	299.4	318.0	254.8
11.2	77.5°	14.9	44.6	91.1	132.0	165.5	212.0	234.3	245.5	182.2
7.4	80°	9.3	33.5	76.2	107.9	107.9	156.2	182.2	191.5	132.0
5.6	82.5°	7.4	24.2	59.5	81.8	72.5	117.2	143.2	145.0	93.0
3.7	85°	5.6	18.6	37.2	53.9	50.2	81.8	83.7	93.0	61.4
3.7	87.5°	3.7	11.2	22.3	31.6	27.9	39.1	44.6	50.2	33.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
17295.6
16787.9
16507.1
16096.2
15326.3
14498.8
13539.3
12579.8
11523.6
10504.5
9478.1
8555.7
7637.1
6740.8
5909.6
5111.9
4317.9
3525.7
2832.1
2320.7
1911.6
1580.6
1314.7
1106.4
935.3
794.0
675.0
574.6
476.0
340.3
241.7
171.1
122.7
85.5
55.8
29.8
0.0

(END OF REPORT)