

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: P637263

Luminaire Tested: **IFLD-S-SA2E-722-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637263  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-722-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12858.5 lumens  
Efficiency: N/A  
Efficacy: 82.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

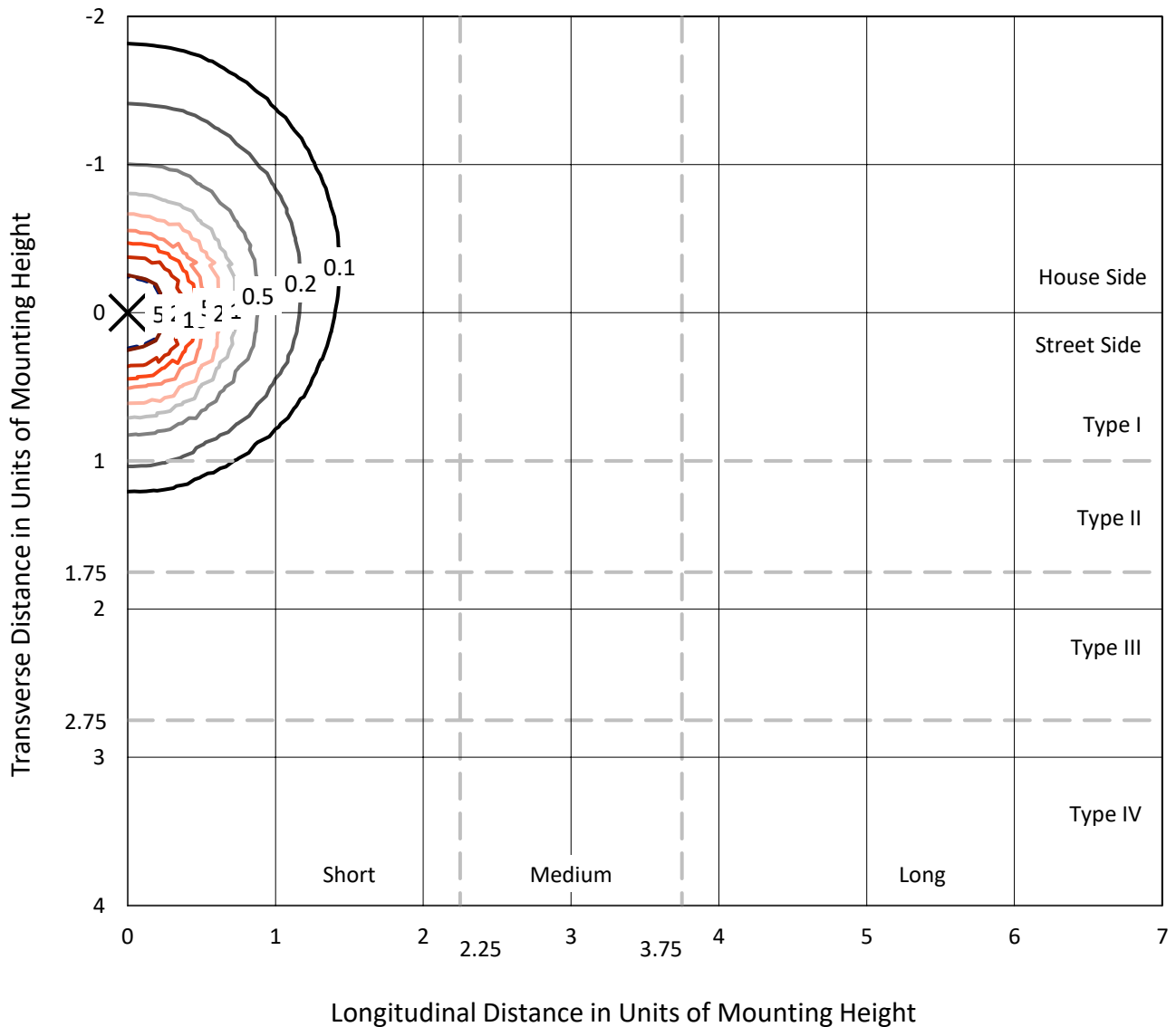
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

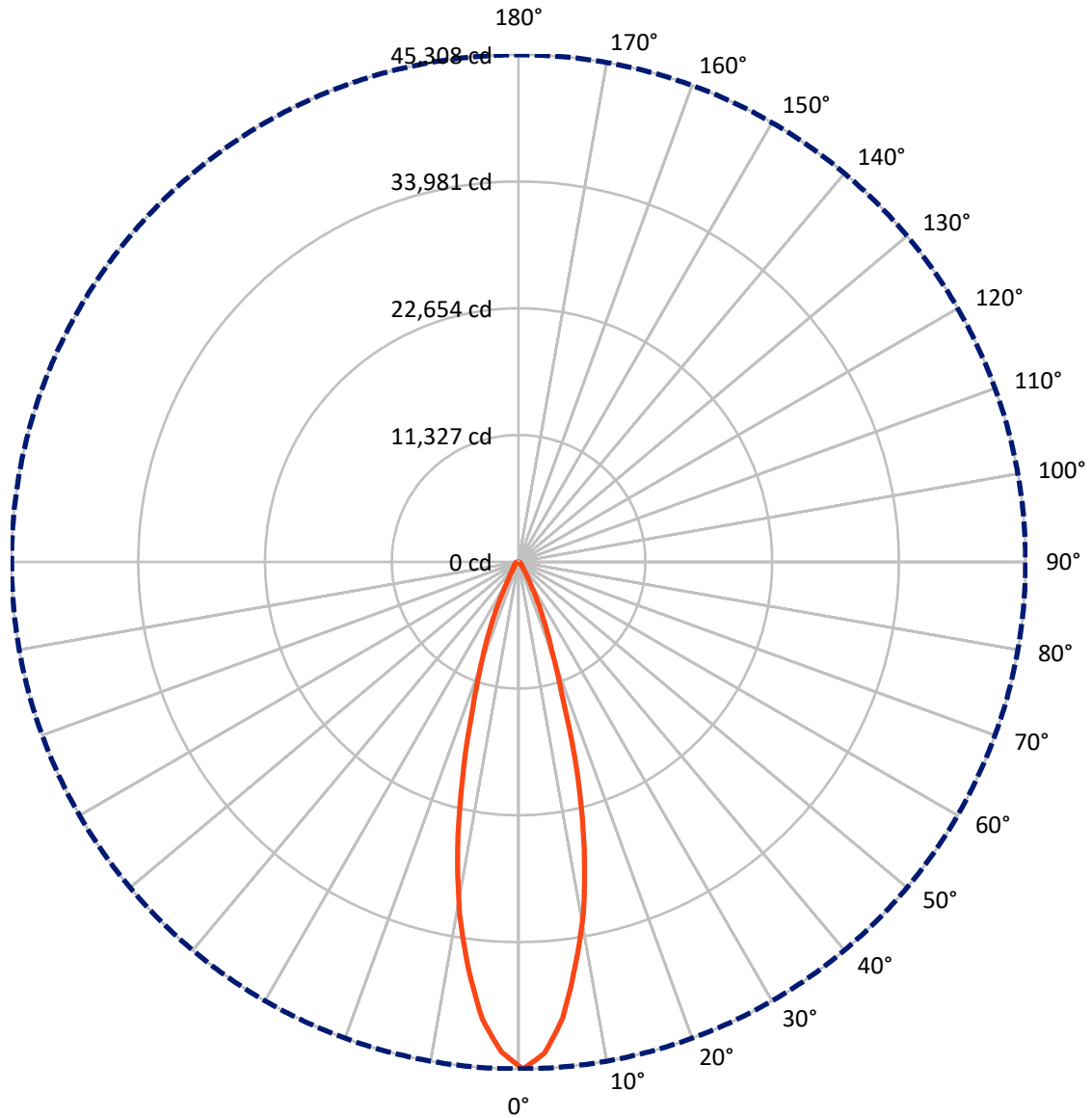
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 113.3 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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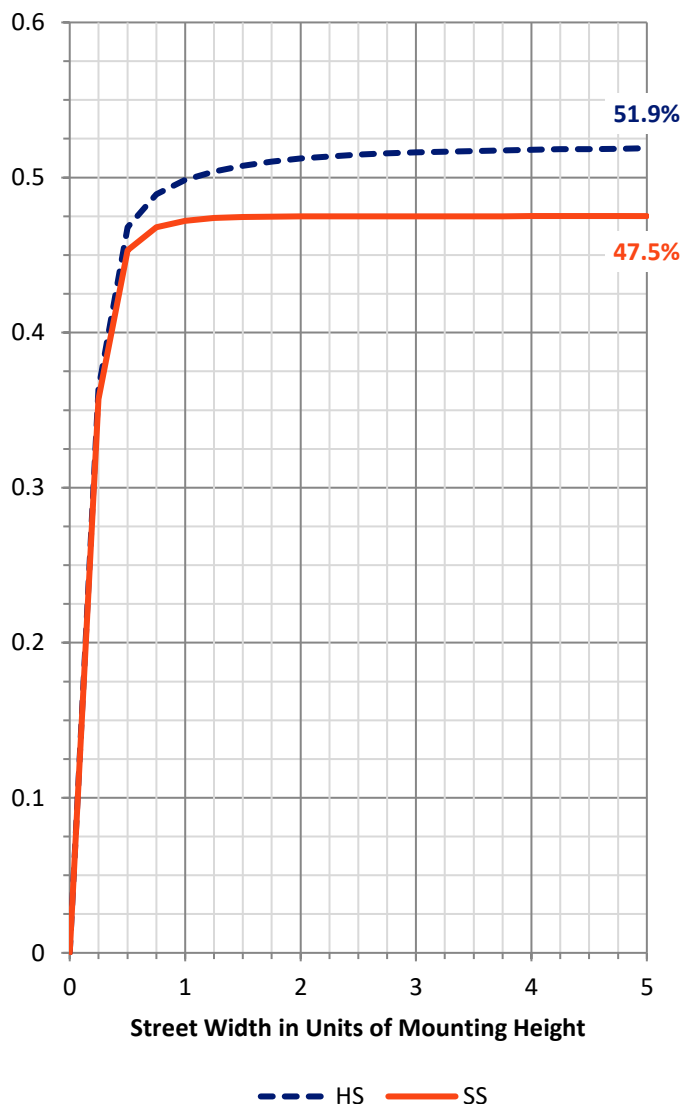
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6779.8	0.0	6779.8
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	6078.6	0.0	6078.6
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	12858.5	0.0	12858.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3656.7	28.4
10°-20°	5538.1	43.1
20°-30°	2337.1	18.2
30°-40°	609.5	4.7
40°-50°	308.3	2.4
50°-60°	201.5	1.6
60°-70°	120.7	0.9
70°-80°	63.5	0.5
80°-90°	22.9	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°	12858.5	100.0
0°-180°	12858.5	100.0

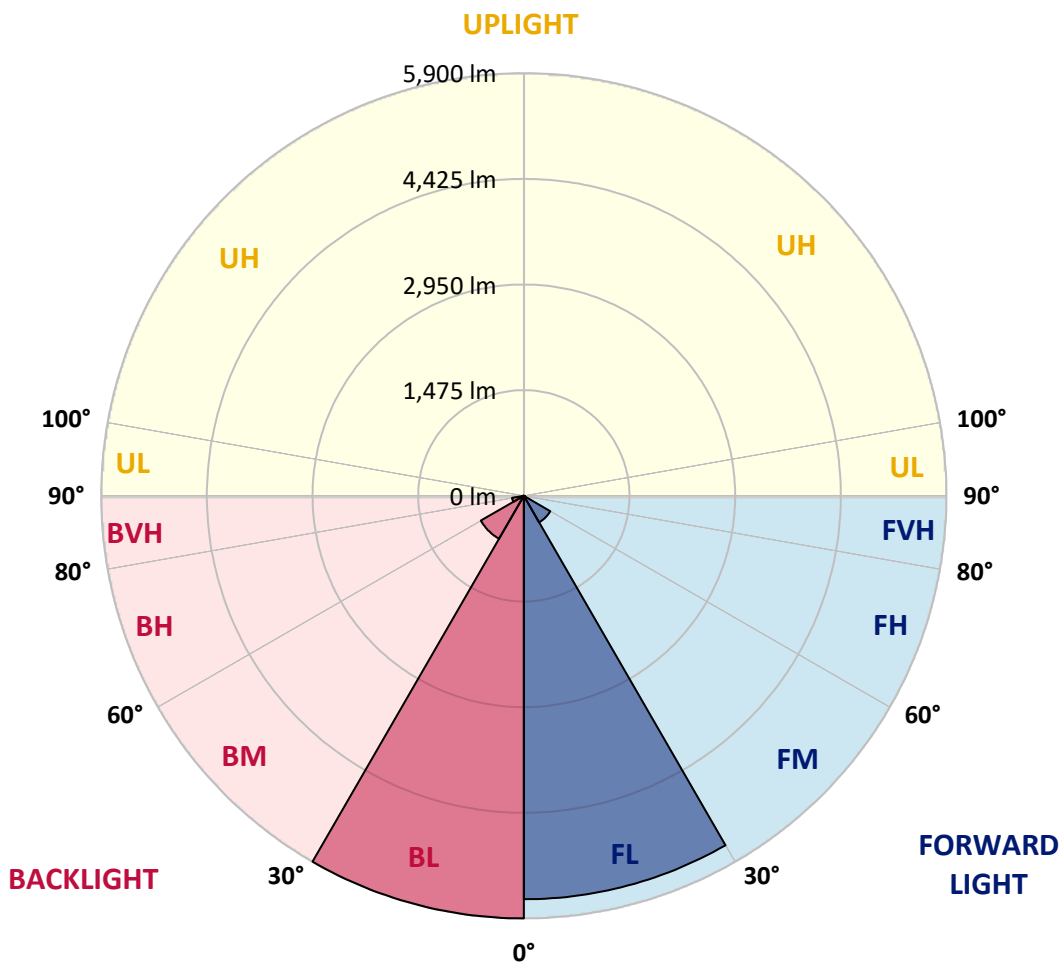


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5631.9	43.8			
FM (30°-60°)	426.5	3.3			
FH (60°-80°)	17.4	0.1			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	5900.0	45.9	B5		
BM (30°-60°)	692.8	5.4	B1/1000		
BH (60°-80°)	166.9	1.3	B1/500		G0/660
BVH (80°-90°)	20.2	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°	45307.7	45307.7	45307.7	45307.7	45307.7	45307.7	45307.7	45307.7	45307.7	45307.7
2.5°	43987.9	44012.4	43921.5	44117.8	43964.8	44374.9	44171.3	44489.0	44382.1	44559.7
5°	40984.3	40943.9	40917.9	41222.6	41134.5	41574.9	41293.3	41200.9	41486.8	41434.9
7.5°	36448.6	36555.5	36494.8	36574.3	36619.0	37121.5	37280.4	37156.2	37160.5	37232.7
10°	31798.9	31641.5	31417.7	31566.4	31881.2	32100.7	32012.6	32194.5	32154.1	32325.9
12.5°	26077.6	26201.8	26076.2	25943.4	26493.5	26432.9	26585.9	26685.6	26435.8	26991.7
15°	19643.1	19708.1	19861.1	19851.0	20274.1	20359.3	20339.1	20444.5	20249.6	20342.0
17.5°	12619.3	12838.8	13250.4	13946.4	14729.1	14820.0	14796.9	14710.3	14616.4	14512.5
20°	8476.4	8453.3	8602.1	8805.7	10425.9	10854.7	10841.7	10570.3	10177.5	10102.4
22.5°	5937.8	5981.2	5960.9	6163.1	6498.1	7680.8	7534.9	7259.1	7130.6	7046.8
25°	3906.1	3890.2	3991.3	4051.9	4339.3	4483.7	4994.9	4892.4	4694.5	4716.2
27.5°	2381.2	2401.4	2439.0	2490.9	2694.6	2648.3	2940.0	2979.0	2915.5	2847.6
30°	1461.4	1475.8	1506.1	1543.7	1614.4	1563.9	1644.7	1784.8	1761.7	1714.1
32.5°	992.0	993.5	1015.1	1029.6	1020.9	973.3	999.3	1132.1	1135.0	1130.7
35°	713.3	713.3	733.6	745.1	720.6	681.6	685.9	768.2	804.3	811.5
37.5°	492.4	493.9	528.5	563.2	535.7	525.6	508.3	563.2	620.9	629.6
40°	374.0	372.6	389.9	415.9	418.8	400.0	405.8	440.4	499.6	506.9
42.5°	303.2	304.7	313.4	310.5	311.9	336.5	345.1	361.0	415.9	428.9
45°	255.6	257.0	261.4	246.9	241.2	278.7	290.2	298.9	345.1	361.0
47.5°	210.8	213.7	218.0	202.2	199.3	223.8	244.0	252.7	293.1	310.5
50°	151.6	154.5	170.4	161.7	170.4	176.2	203.6	216.6	244.0	267.1
52.5°	109.7	112.6	117.0	118.4	140.1	143.0	163.2	183.4	196.4	222.4
55°	86.6	89.5	86.6	83.8	102.5	118.4	125.6	147.3	157.4	187.7
57.5°	49.1	52.0	56.3	65.0	67.9	91.0	98.2	117.0	125.6	154.5
60°	8.7	10.1	15.9	39.0	47.7	57.8	73.6	89.5	101.1	121.3
62.5°	1.4	1.4	2.9	8.7	27.4	40.4	53.4	63.5	73.6	92.4
65°	0.0	0.0	1.4	2.9	7.2	23.1	28.9	37.5	50.5	66.4
67.5°	0.0	0.0	1.4	2.9	4.3	8.7	13.0	23.1	28.9	44.8
70°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	10.1	17.3	27.4
72.5°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	8.7	8.7	17.3
75°	0.0	0.0	1.4	2.9	4.3	7.2	8.7	8.7	7.2	7.2
77.5°	0.0	0.0	1.4	2.9	5.8	8.7	10.1	8.7	5.8	5.8
80°	0.0	0.0	2.9	4.3	7.2	10.1	13.0	10.1	5.8	2.9
82.5°	0.0	0.0	2.9	5.8	7.2	11.6	15.9	13.0	5.8	2.9
85°	0.0	0.0	1.4	4.3	8.7	11.6	15.9	11.6	5.8	1.4
87.5°	0.0	0.0	1.4	1.4	2.9	4.3	8.7	7.2	2.9	1.4
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°
45307.7	0°	45307.7	45307.7	45307.7	45307.7	45307.7	45307.7	45307.7	45307.7	45307.7
44223.3	2.5°	44477.4	44708.5	44756.1	44692.6	44785.0	44618.9	44491.9	44162.6	43964.8
41419.0	5°	41686.1	41651.5	41892.6	41972.0	41961.9	41834.8	41657.2	41458.0	41264.5
37092.7	7.5°	37323.7	37368.5	37588.0	37728.0	37657.3	37498.4	37375.7	37225.5	37095.6
32388.0	10°	32684.1	32376.5	32649.4	32649.4	32838.6	32389.5	32431.4	32053.0	32070.3
26981.6	12.5°	27074.0	27185.2	27230.0	27358.5	27137.6	26899.3	26607.6	26549.8	26369.3
20165.8	15°	20456.1	20773.7	20500.8	20967.2	20742.0	20493.6	20448.8	20001.2	20142.7
14626.5	17.5°	14554.3	14905.2	15015.0	15282.1	15077.1	14929.8	14743.5	14607.8	14597.6
10239.6	20°	10320.4	10672.8	10753.7	11074.2	11051.1	11004.9	10847.5	10675.7	10489.4
6970.3	22.5°	7075.7	7363.1	7631.7	8063.4	8056.2	7920.5	7904.6	7662.0	7666.3
4709.0	25°	4758.1	4967.4	5031.0	5472.9	5522.0	5507.5	5425.2	5199.9	5285.1
2876.5	27.5°	2879.4	3062.8	3277.9	3433.9	3581.2	3558.1	3475.8	3350.1	3295.3
1728.5	30°	1774.7	1857.0	1936.4	2124.2	2212.2	2258.5	2219.5	2102.5	2111.2
1137.9	32.5°	1162.4	1231.8	1289.5	1407.9	1454.1	1539.3	1523.4	1498.9	1470.0
818.8	35°	847.6	898.2	937.2	992.0	1051.3	1123.5	1135.0	1124.9	1113.3
632.5	37.5°	646.9	698.9	743.7	766.8	813.0	869.3	901.1	899.6	891.0
515.5	40°	525.6	564.6	605.0	635.4	667.1	709.0	748.0	752.3	752.3
433.2	42.5°	439.0	472.2	512.6	544.4	567.5	606.5	646.9	649.8	646.9
366.8	45°	375.4	404.3	443.3	480.9	499.6	528.5	567.5	576.2	570.4
314.8	47.5°	326.3	352.3	385.6	426.0	446.2	472.2	508.3	518.4	517.0
271.5	50°	280.1	310.5	343.7	376.9	402.9	427.4	462.1	473.6	469.3
231.0	52.5°	246.9	274.4	303.2	339.3	369.7	391.3	418.8	439.0	433.2
194.9	55°	206.5	239.7	270.0	300.4	337.9	361.0	387.0	411.5	405.8
164.6	57.5°	179.1	206.5	241.2	268.6	306.1	333.6	359.6	385.6	384.1
134.3	60°	150.2	179.1	212.3	241.2	275.8	306.1	332.1	361.0	363.9
101.1	62.5°	118.4	153.1	181.9	215.2	249.8	283.0	306.1	335.0	339.3
76.5	65°	89.5	125.6	157.4	189.2	223.8	259.9	280.1	304.7	309.0
56.3	67.5°	66.4	96.7	134.3	163.2	199.3	233.9	252.7	272.9	280.1
34.7	70°	50.5	73.6	112.6	140.1	177.6	205.1	225.3	242.6	248.4
23.1	72.5°	31.8	57.8	91.0	119.9	153.1	177.6	192.1	202.2	210.8
13.0	75°	21.7	44.8	73.6	102.5	127.1	145.8	158.8	167.5	174.7
5.8	77.5°	13.0	34.7	60.6	85.2	101.1	115.5	128.5	134.3	138.6
4.3	80°	7.2	26.0	50.5	69.3	79.4	89.5	99.6	106.9	109.7
2.9	82.5°	4.3	20.2	40.4	53.4	57.8	67.9	78.0	82.3	82.3
1.4	85°	2.9	14.4	27.4	39.0	41.9	49.1	52.0	54.9	57.8
1.4	87.5°	2.9	8.7	17.3	21.7	23.1	26.0	27.4	30.3	33.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
45307.7  
43818.9  
41047.9  
36655.1  
31901.4  
26204.7  
20001.2  
14329.1  
10408.5  
7582.6  
5150.8  
3247.6  
2073.6  
1459.9  
1109.0  
886.6  
743.7  
644.0  
570.4  
514.1  
466.4  
431.8  
408.7  
385.6  
365.3  
342.2  
313.4  
283.0  
251.3  
209.4  
173.3  
137.2  
106.9  
80.9  
56.3  
31.8  
0.0

(END OF REPORT)