

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: P636578

Luminaire Tested: **IFLD-M-SA4A-927-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636578  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-927-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (64) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9309 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

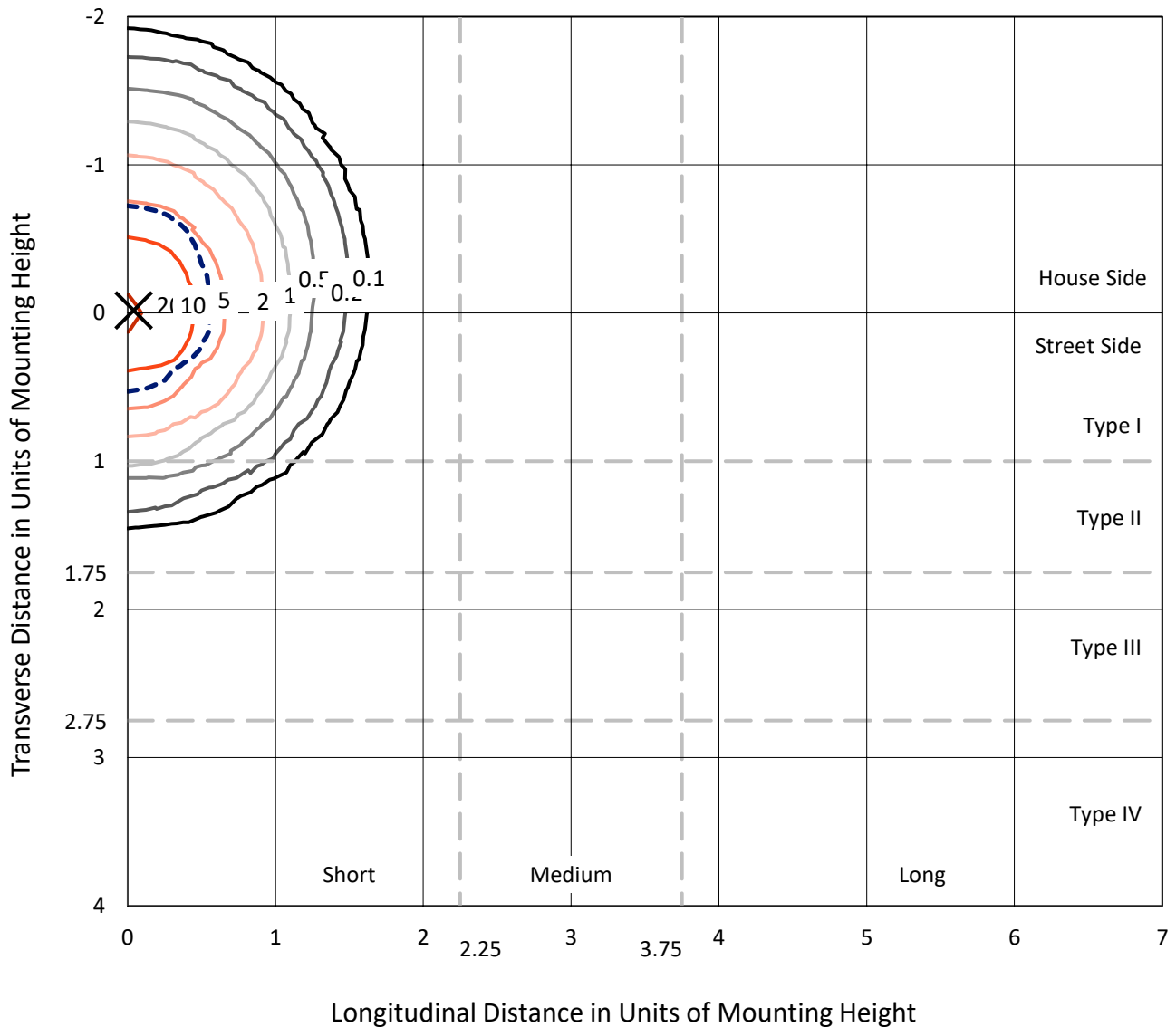
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

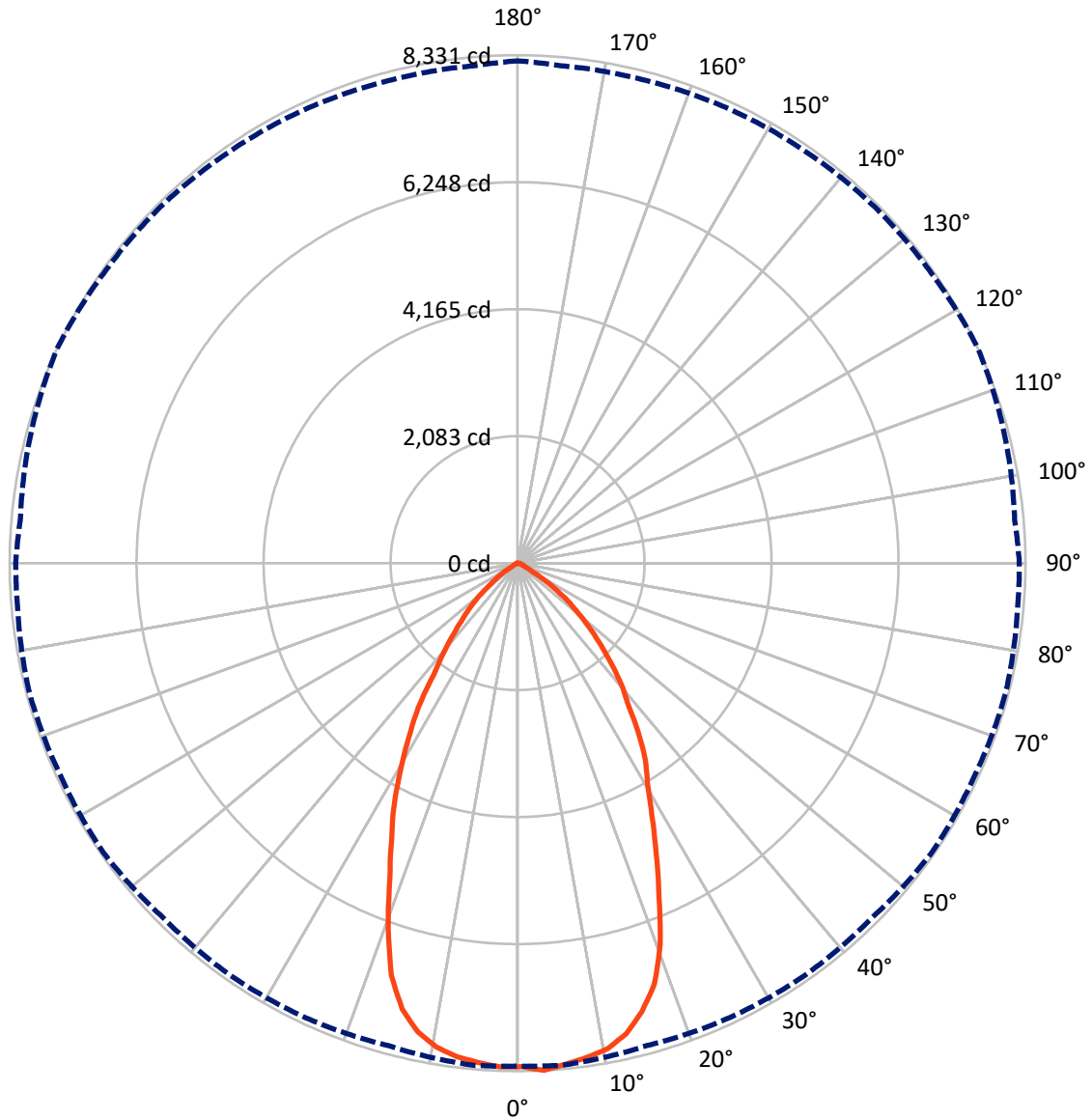
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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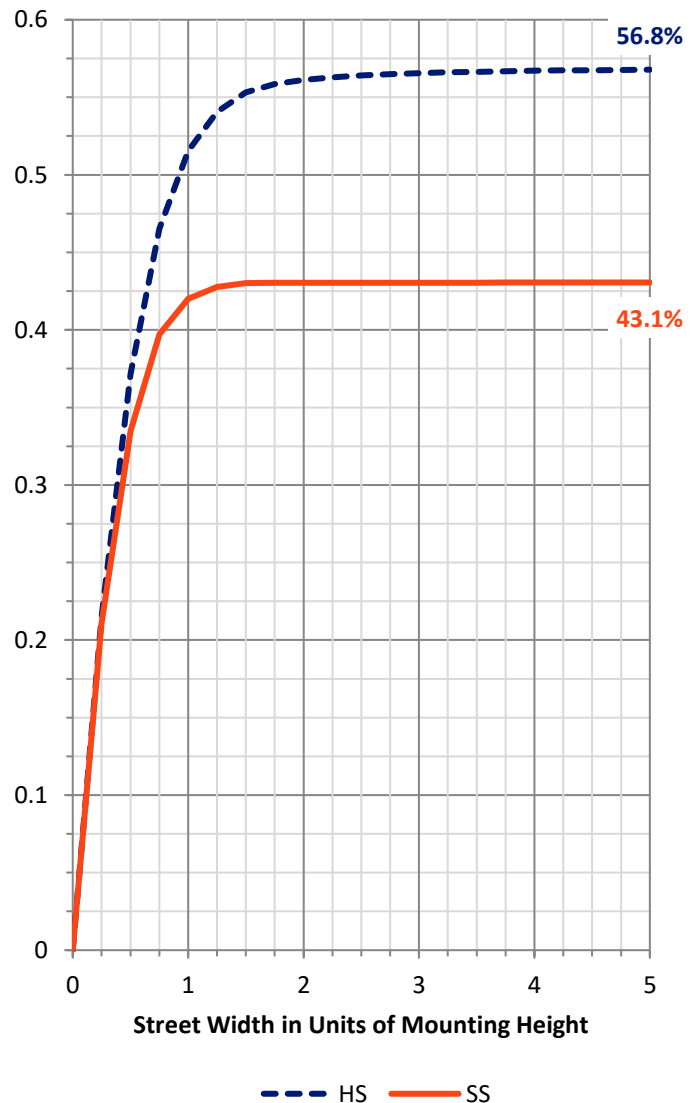
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5327.4	0.0	5327.4
	% Fixture	57.2	0.0	57.2
<b>Street Side</b>	Lumens	3981.6	0.0	3981.6
	% Fixture	42.8	0.0	42.8
<b>Total</b>	Lumens	9309.0	0.0	9309.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	777.9	8.4
10°-20°	2062.7	22.2
20°-30°	2359.3	25.3
30°-40°	2021.8	21.7
40°-50°	1336.9	14.4
50°-60°	583.4	6.3
60°-70°	114.6	1.2
70°-80°	41.4	0.4
80°-90°	11.0	0.1
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°	9309.0	100.0
0°-180°	9309.0	100.0



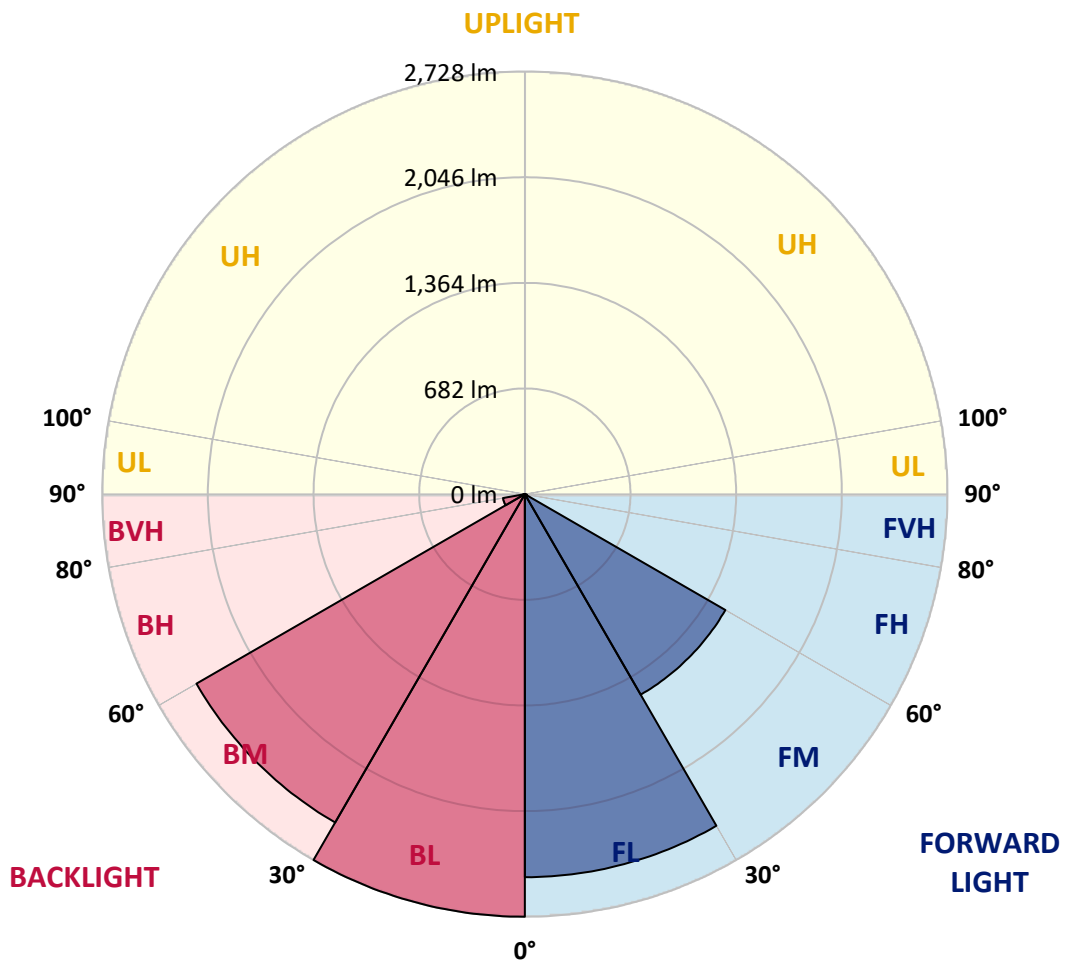
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2472.3	26.6			
FM (30°-60°)	1494.8	16.1			
FH (60°-80°)	12.7	0.1			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	2727.6	29.3	B4/5000		
BM (30°-60°)	2447.3	26.3	B2/2500		
BH (60°-80°)	143.3	1.5	B1/500		G1/500
BVH (80°-90°)	9.2	0.1			G0/10
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°	8259.5	8259.5	8259.5	8259.5	8259.5	8259.5	8259.5	8259.5	8259.5	8259.5
2.5°	8247.6	8267.4	8192.2	8225.8	8239.7	8221.9	8287.2	8267.4	8283.2	8233.7
5°	8247.6	8267.4	8180.3	8196.1	8200.1	8166.5	8237.7	8214.0	8215.9	8164.5
7.5°	8196.1	8219.9	8140.7	8152.6	8154.6	8126.9	8188.2	8154.6	8142.7	8089.3
10°	8057.6	8071.5	8000.2	8029.9	8057.6	8031.9	8085.3	8047.7	8047.7	8000.2
12.5°	7838.0	7863.7	7784.6	7820.2	7843.9	7814.2	7875.6	7861.7	7863.7	7816.2
15°	7438.3	7349.2	7444.2	7515.4	7517.4	7511.5	7568.9	7555.0	7564.9	7493.7
17.5°	5495.1	5473.3	5584.1	6425.1	7050.4	7135.5	7145.4	7070.2	7036.6	6967.3
20°	5091.4	5107.3	5083.5	5087.5	5580.2	6603.2	6541.9	6355.9	6270.8	6201.5
22.5°	4796.6	4770.9	4755.0	4745.1	4759.0	5425.8	5867.1	5586.1	5540.6	5507.0
25°	4476.0	4464.1	4444.4	4440.4	4432.5	4319.7	4954.9	4980.6	4907.4	4865.8
27.5°	4177.2	4169.3	4147.5	4145.6	4054.5	3781.5	3850.7	4462.2	4442.4	4426.6
30°	3858.6	3842.8	3830.9	3830.9	3555.9	3274.9	3162.1	3890.3	3890.3	3876.4
32.5°	3512.4	3498.5	3502.5	3455.0	3126.5	2869.2	2691.2	3358.0	3565.8	3553.9
35°	2147.0	2143.0	2544.7	3073.1	2687.2	2453.7	2441.8	2873.2	3176.0	3207.6
37.5°	1911.5	1899.6	1905.6	1939.2	2301.3	2208.3	2204.4	2277.6	2703.0	2718.9
40°	1715.6	1707.7	1701.8	1581.1	1466.3	1970.9	1957.0	1909.5	2309.2	2337.0
42.5°	1529.6	1521.7	1521.7	1351.5	1165.5	1620.6	1626.6	1571.2	1947.1	1957.0
45°	1337.7	1331.7	1298.1	1078.4	1025.0	1076.5	1347.6	1284.2	1545.4	1648.3
47.5°	631.2	627.3	908.3	896.4	892.4	860.8	1029.0	1064.6	1226.8	1329.7
50°	506.6	502.6	478.9	421.5	734.1	653.0	742.0	819.2	870.7	965.6
52.5°	419.5	415.5	366.1	324.5	407.6	476.9	443.2	548.1	546.1	649.0
55°	275.1	255.3	281.0	265.2	213.7	346.3	338.4	415.5	405.7	494.7
57.5°	5.9	5.9	13.9	150.4	134.6	146.4	193.9	237.5	267.1	292.9
60°	2.0	2.0	4.0	7.9	55.4	61.3	75.2	87.1	122.7	152.4
62.5°	0.0	0.0	2.0	4.0	7.9	31.7	35.6	41.6	57.4	79.2
65°	0.0	0.0	0.0	2.0	4.0	7.9	11.9	25.7	35.6	45.5
67.5°	0.0	0.0	0.0	2.0	2.0	4.0	7.9	11.9	15.8	31.7
70°	0.0	0.0	0.0	2.0	2.0	4.0	5.9	7.9	11.9	15.8
72.5°	0.0	0.0	0.0	2.0	2.0	5.9	4.0	5.9	7.9	9.9
75°	0.0	0.0	0.0	2.0	2.0	2.0	4.0	5.9	5.9	7.9
77.5°	0.0	0.0	0.0	2.0	4.0	4.0	4.0	4.0	4.0	5.9
80°	0.0	0.0	0.0	2.0	2.0	4.0	5.9	7.9	4.0	4.0
82.5°	0.0	0.0	0.0	4.0	2.0	7.9	11.9	9.9	4.0	2.0
85°	0.0	0.0	0.0	2.0	7.9	9.9	9.9	5.9	2.0	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	5.9	5.9	2.0	2.0
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°
8259.5	0°	8259.5	8259.5	8259.5	8259.5	8259.5	8259.5	8259.5	8259.5	8259.5
8229.8	2.5°	8184.3	8261.4	8330.7	8287.2	8271.3	8239.7	8215.9	8190.2	8188.2
8158.5	5°	8113.0	8186.3	8253.5	8202.1	8206.0	8190.2	8174.4	8168.4	8172.4
8085.3	7.5°	8051.7	8113.0	8186.3	8142.7	8154.6	8144.7	8136.8	8124.9	8142.7
7990.4	10°	7958.7	8014.1	8099.2	8057.6	8051.7	8041.8	8033.9	8012.1	8022.0
7818.2	12.5°	7754.9	7824.1	7921.1	7873.6	7889.4	7861.7	7849.9	7836.0	7838.0
7519.4	15°	7477.8	7531.3	7630.2	7592.6	7604.5	7586.7	7586.7	7586.7	7600.5
6977.2	17.5°	6995.0	7103.9	7260.2	7212.7	7230.5	7234.5	7230.5	7244.3	7262.2
6205.5	20°	6209.4	6395.4	6680.4	6773.4	6811.0	6813.0	6785.3	6818.9	6854.5
5483.2	22.5°	5487.2	5683.1	5934.4	6189.7	6348.0	6340.0	6344.0	6365.8	6403.4
4840.1	25°	4861.9	5049.9	5277.4	5505.0	5851.3	5922.5	5924.5	5944.3	5974.0
4400.8	27.5°	4410.7	4483.9	4691.7	4921.2	5293.3	5520.8	5508.9	5526.8	5558.4
3850.7	30°	3866.6	4147.5	4195.0	4335.5	4656.1	5073.6	5075.6	5095.4	5127.0
3526.2	32.5°	3516.3	3702.3	3848.7	3852.7	4125.8	4555.2	4640.3	4660.0	4681.8
3189.8	35°	3187.8	3209.6	3407.5	3462.9	3621.2	4046.6	4197.0	4208.9	4244.5
2712.9	37.5°	2758.4	2887.1	2942.5	3140.3	3148.3	3492.6	3791.4	3779.5	3807.2
2335.0	40°	2364.7	2487.3	2627.8	2772.3	2792.1	3049.3	3379.8	3391.6	3403.5
1937.2	42.5°	1953.1	2109.4	2253.8	2350.8	2485.4	2633.8	2948.4	3003.8	3031.5
1660.2	45°	1689.9	1733.4	1905.6	2048.0	2184.6	2253.8	2548.7	2649.6	2667.4
1313.9	47.5°	1331.7	1478.2	1594.9	1715.6	1885.8	1947.1	2160.8	2301.3	2315.2
975.5	50°	1029.0	1133.8	1294.1	1403.0	1600.8	1634.5	1780.9	1963.0	1980.8
653.0	52.5°	736.1	878.6	1034.9	1139.8	1329.7	1373.3	1482.1	1656.2	1668.1
500.6	55°	528.3	621.3	750.0	900.3	1038.9	1135.8	1211.0	1377.2	1393.1
328.5	57.5°	360.1	447.2	500.6	651.0	734.1	839.0	900.3	1027.0	1038.9
156.3	60°	172.2	213.7	255.3	330.5	383.9	472.9	512.5	564.0	577.8
95.0	62.5°	110.8	130.6	166.2	197.9	249.3	304.7	320.6	364.1	379.9
59.4	65°	73.2	93.0	130.6	138.5	190.0	233.5	253.3	284.9	302.8
35.6	67.5°	41.6	65.3	97.0	114.8	150.4	191.9	213.7	241.4	257.2
23.7	70°	27.7	53.4	77.2	95.0	118.7	154.3	182.0	205.8	215.7
11.9	72.5°	15.8	33.6	53.4	75.2	95.0	128.6	154.3	174.1	114.8
7.9	75°	9.9	25.7	45.5	63.3	79.2	102.9	124.7	122.7	51.4
5.9	77.5°	7.9	19.8	39.6	53.4	65.3	71.2	89.0	100.9	39.6
4.0	80°	5.9	15.8	35.6	45.5	25.7	51.4	69.3	75.2	27.7
4.0	82.5°	4.0	9.9	29.7	31.7	17.8	37.6	55.4	49.5	19.8
2.0	85°	2.0	5.9	9.9	17.8	15.8	17.8	13.9	19.8	13.9
2.0	87.5°	2.0	4.0	7.9	7.9	7.9	5.9	7.9	7.9	7.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<hr/>
8259.5
8235.7
8221.9
8192.2
8069.5
7895.4
7606.5
7321.5
6878.3
6409.3
6025.4
5588.1
5182.4
4731.3
4282.1
3840.8
3441.1
3071.1
2710.9
2348.8
2006.5
1689.9
1406.9
1062.6
593.6
383.9
302.8
255.3
213.7
93.0
51.4
39.6
29.7
19.8
13.9
7.9
0.0

(END OF REPORT)