

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: P637868

Luminaire Tested: **IFLD-S-SA2A-735-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637868  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-735-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7678.1 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

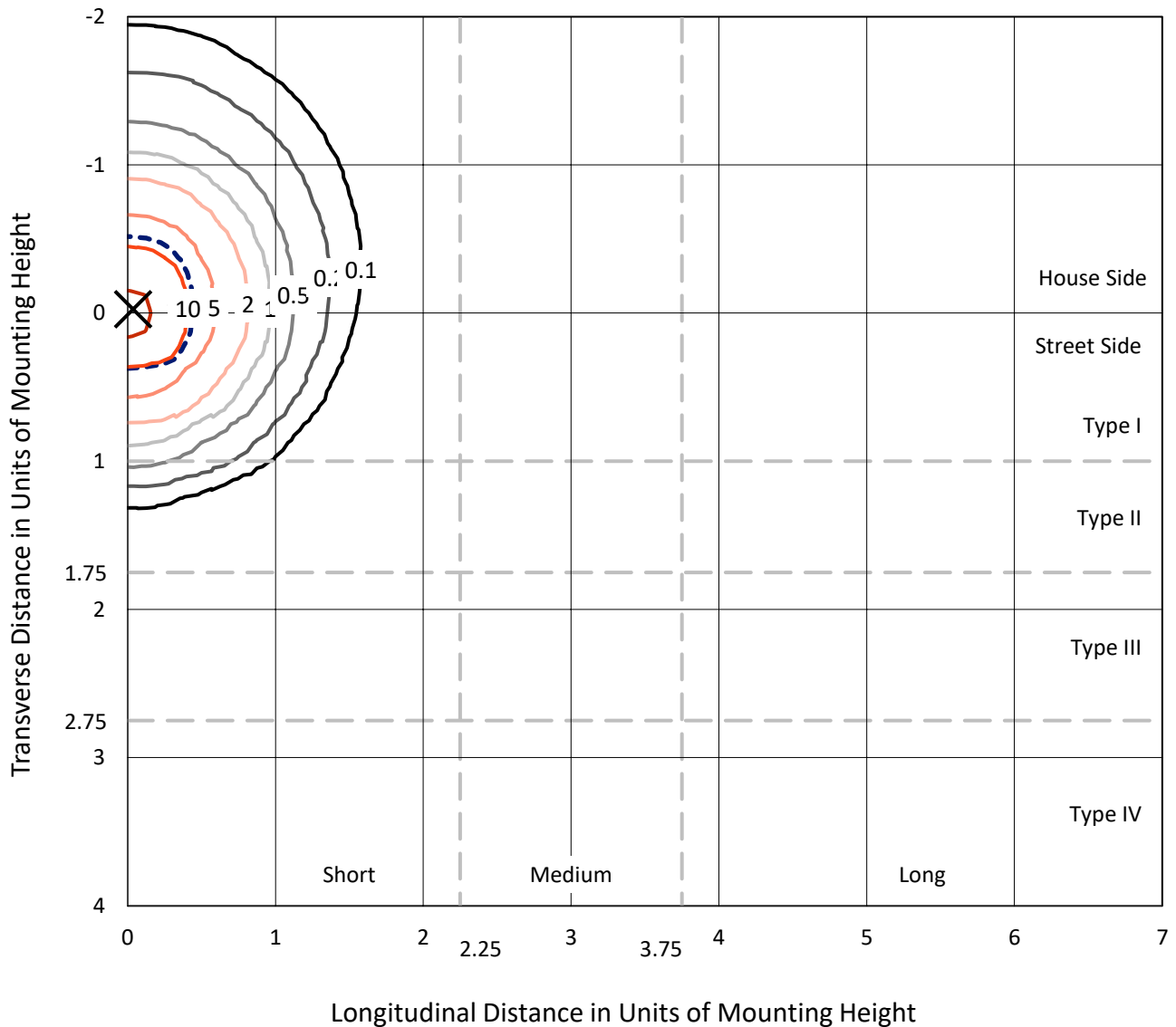
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

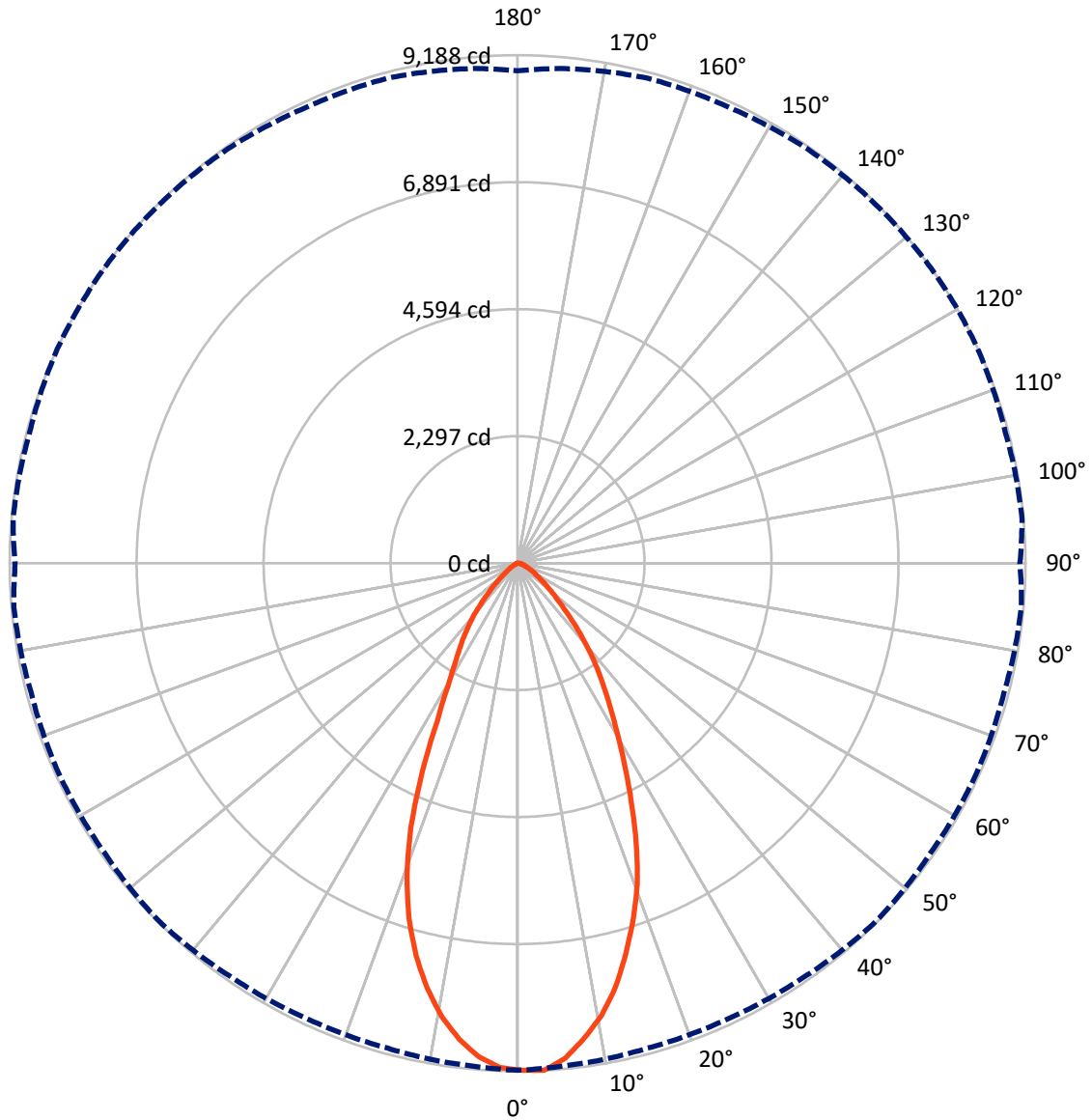
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.9 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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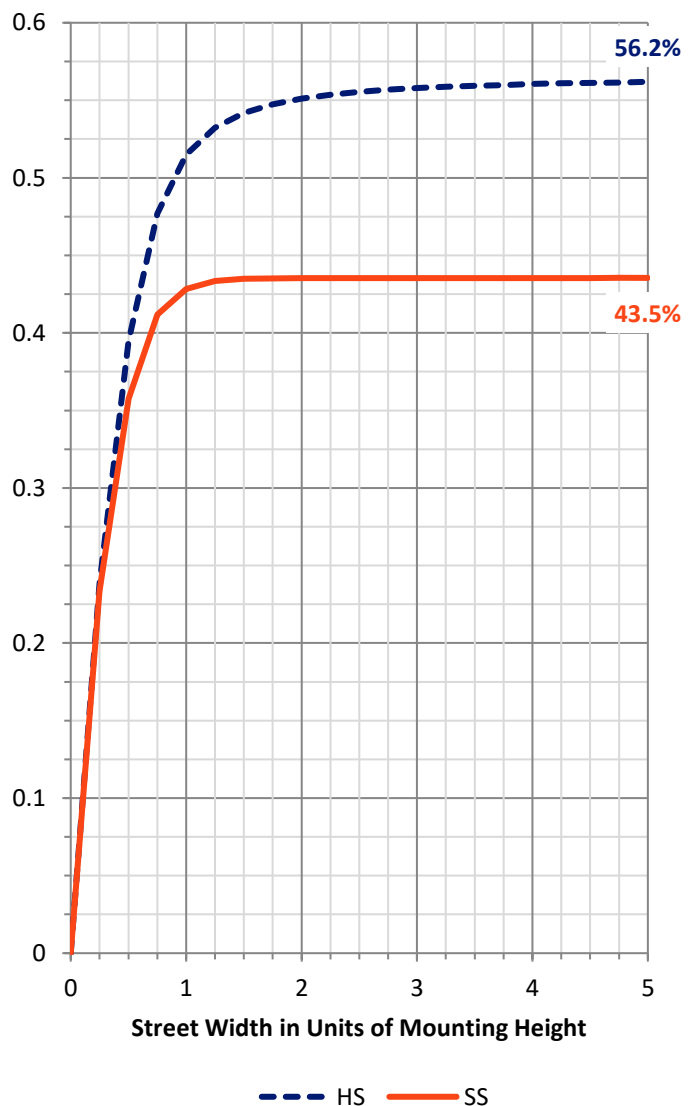
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4356.8	0.0	4356.8
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	3321.2	0.0	3321.2
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	7678.1	0.0	7678.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	833.0	10.8
10°-20°	1985.6	25.9
20°-30°	2022.3	26.3
30°-40°	1508.0	19.6
40°-50°	787.8	10.3
50°-60°	331.4	4.3
60°-70°	135.3	1.8
70°-80°	57.0	0.7
80°-90°	17.6	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°	7678.1	100.0
0°-180°	7678.1	100.0



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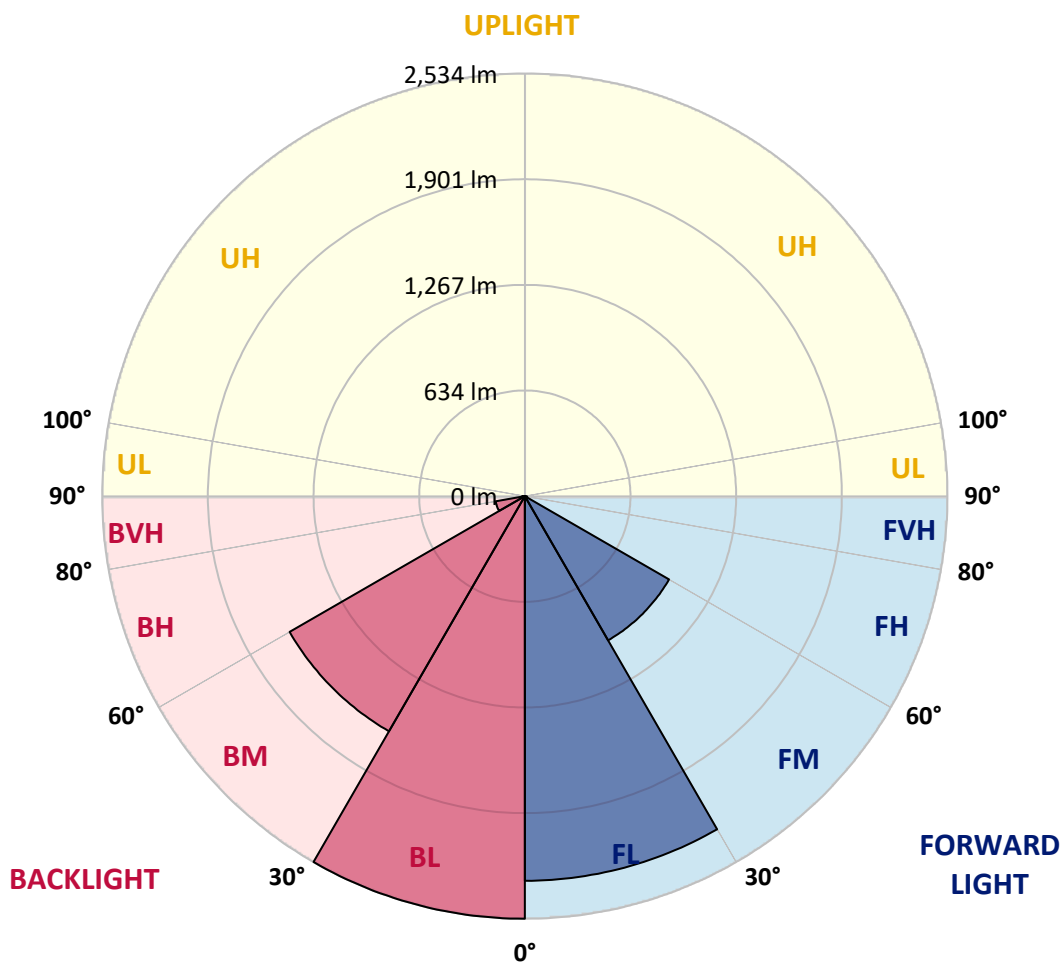
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2306.6	30.0			
FM (30°-60°)	998.6	13.0			
FH (60°-80°)	14.4	0.2			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	2534.4	33.0	B4/5000		
BM (30°-60°)	1628.7	21.2	B2/2500		
BH (60°-80°)	177.8	2.3	B1/500		G1/500
BVH (80°-90°)	15.9	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°	9173.4	9173.4	9173.4	9173.4	9173.4	9173.4	9173.4	9173.4	9173.4	9173.4
2.5°	9174.4	9136.9	9083.7	9078.8	9106.4	9166.5	9128.1	9130.0	9106.4	9146.8
5°	9030.4	8994.9	8958.4	8910.1	8950.5	8976.2	8956.5	8934.8	8904.2	8943.6
7.5°	8758.2	8738.5	8684.2	8662.5	8687.2	8715.8	8673.4	8667.5	8625.1	8676.3
10°	8342.0	8334.1	8280.8	8268.0	8289.7	8333.1	8314.4	8310.4	8283.8	8278.9
12.5°	7910.0	7879.4	7813.3	7809.4	7842.0	7907.0	7856.7	7808.4	7823.2	7836.0
15°	6797.5	6764.9	6928.7	7186.1	7321.2	7316.3	7331.1	7272.9	7255.1	7261.0
17.5°	5403.9	5348.6	5407.8	5806.3	6448.3	6821.1	6718.6	6593.3	6526.2	6481.9
20°	4664.1	4667.1	4656.3	4758.8	5159.3	6009.4	5984.8	5743.1	5655.4	5618.9
22.5°	4214.4	4197.6	4174.0	4206.5	4314.0	4813.1	5147.4	4925.5	4894.9	4854.5
25°	3773.5	3773.5	3744.9	3777.5	3808.0	3814.9	4150.3	4241.0	4181.8	4181.8
27.5°	3391.8	3372.1	3359.3	3374.1	3333.6	3139.3	3181.8	3646.3	3605.9	3581.2
30°	3013.1	3007.2	2985.5	3005.2	2855.3	2636.3	2547.6	3077.2	3119.6	3110.7
32.5°	2487.4	2511.1	2607.7	2638.3	2381.9	2205.3	2120.5	2554.5	2724.1	2717.2
35°	1690.5	1710.2	1820.7	2185.6	1974.5	1848.3	1823.6	2031.7	2310.9	2337.5
37.5°	1346.3	1343.3	1374.9	1440.0	1586.9	1556.4	1549.5	1603.7	1884.8	1896.6
40°	1109.6	1105.6	1104.6	1051.4	1014.9	1294.0	1275.3	1242.7	1486.3	1510.0
42.5°	894.6	898.5	901.5	785.1	731.8	998.1	987.3	953.7	1165.8	1193.4
45°	702.2	701.2	707.2	584.9	570.1	638.1	737.7	711.1	879.8	909.4
47.5°	363.9	376.8	456.6	452.7	459.6	452.7	558.2	551.3	661.8	709.1
50°	244.6	248.5	255.4	256.4	362.0	333.4	378.7	429.0	463.6	536.5
52.5°	189.4	192.3	174.6	163.7	221.9	246.6	248.5	296.9	323.5	397.5
55°	105.5	118.4	127.2	128.2	122.3	182.5	181.5	219.9	240.7	290.0
57.5°	13.8	16.8	25.6	82.8	81.9	101.6	127.2	159.8	171.6	212.1
60°	1.0	2.0	3.0	12.8	54.2	59.2	86.8	99.6	119.3	148.9
62.5°	0.0	0.0	1.0	3.0	10.8	34.5	45.4	52.3	70.0	97.6
65°	0.0	0.0	1.0	2.0	3.9	12.8	17.8	28.6	41.4	60.2
67.5°	0.0	0.0	1.0	2.0	3.0	4.9	7.9	12.8	21.7	36.5
70°	0.0	0.0	1.0	2.0	3.0	3.9	5.9	7.9	11.8	19.7
72.5°	0.0	0.0	1.0	1.0	2.0	4.9	4.9	5.9	7.9	10.8
75°	0.0	0.0	1.0	2.0	3.0	4.9	4.9	4.9	5.9	6.9
77.5°	0.0	0.0	1.0	2.0	3.0	4.9	3.9	4.9	4.9	4.9
80°	0.0	0.0	1.0	2.0	3.0	4.9	5.9	4.9	3.9	3.9
82.5°	0.0	0.0	1.0	3.0	3.0	6.9	6.9	6.9	3.0	3.0
85°	0.0	0.0	2.0	3.0	4.9	7.9	7.9	5.9	3.0	2.0
87.5°	0.0	0.0	1.0	2.0	2.0	3.9	5.9	4.9	2.0	1.0
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°
9173.4	0°	9173.4	9173.4	9173.4	9173.4	9173.4	9173.4	9173.4	9173.4	9173.4
9087.6	2.5°	9160.6	9136.0	9182.3	9188.2	9168.5	9143.8	9086.6	9081.7	8982.1
8886.4	5°	8987.0	8946.6	8976.2	8995.9	8989.0	8962.4	8938.7	8917.0	8827.2
8560.0	7.5°	8663.5	8648.7	8662.5	8677.3	8705.9	8677.3	8667.5	8644.8	8556.0
8238.4	10°	8304.5	8276.9	8329.2	8322.3	8314.4	8306.5	8265.1	8269.0	8164.5
7800.5	12.5°	7863.6	7817.3	7867.6	7873.5	7867.6	7840.0	7793.6	7813.3	7717.7
7208.8	15°	7270.9	7266.0	7302.5	7326.1	7342.9	7313.3	7297.5	7307.4	7250.2
6447.3	17.5°	6543.0	6607.1	6726.5	6766.9	6767.9	6798.5	6789.6	6777.7	6735.3
5604.1	20°	5686.9	5810.2	5993.7	6182.0	6236.3	6210.6	6198.8	6220.5	6157.4
4812.1	22.5°	4896.9	5002.4	5215.5	5490.6	5649.4	5665.2	5662.3	5643.5	5618.9
4177.9	25°	4226.2	4319.9	4524.1	4775.6	5080.4	5125.7	5127.7	5121.8	5100.1
3602.9	27.5°	3660.1	3773.5	3886.0	4110.8	4435.3	4622.7	4599.0	4592.1	4584.3
3117.6	30°	3147.2	3290.2	3395.8	3535.8	3826.8	4080.3	4104.9	4093.1	4074.3
2716.2	32.5°	2740.9	2825.7	2959.8	3054.5	3263.6	3550.6	3645.3	3636.4	3619.7
2354.3	35°	2387.8	2421.3	2526.9	2632.4	2771.5	3049.6	3189.6	3169.9	3167.0
1918.3	37.5°	1966.7	2079.1	2137.3	2243.8	2341.4	2557.4	2750.7	2741.9	2742.9
1542.5	40°	1587.9	1653.0	1768.4	1858.2	1947.9	2105.7	2320.7	2326.6	2324.7
1194.4	42.5°	1219.0	1282.2	1403.5	1501.1	1581.0	1678.7	1883.8	1890.7	1899.6
930.1	45°	951.8	992.2	1081.0	1182.6	1267.4	1326.6	1482.4	1526.8	1527.8
721.0	47.5°	738.7	785.1	848.2	945.8	1028.7	1071.1	1184.5	1244.7	1241.7
553.3	50°	579.9	622.3	673.6	750.6	840.3	873.8	957.7	1016.9	1013.9
417.2	52.5°	443.8	498.1	543.4	602.6	690.4	719.0	779.2	847.2	837.4
305.7	55°	336.3	391.6	434.0	483.3	563.2	599.7	641.1	695.3	697.3
236.7	57.5°	253.5	310.7	349.1	399.4	459.6	500.0	531.6	589.8	588.8
161.8	60°	181.5	230.8	277.1	329.4	375.8	422.1	443.8	499.1	501.0
114.4	62.5°	131.2	177.5	221.9	267.3	308.7	354.1	373.8	417.2	423.1
75.0	65°	91.7	124.3	175.6	210.1	256.4	290.0	315.6	353.1	360.0
44.4	67.5°	59.2	89.8	139.1	169.6	212.1	240.7	267.3	296.9	305.7
28.6	70°	35.5	68.1	103.6	136.1	174.6	200.2	225.9	251.5	256.4
13.8	72.5°	22.7	47.3	75.0	110.5	140.1	167.7	190.4	209.1	194.3
8.9	75°	12.8	32.5	59.2	86.8	113.4	140.1	158.8	168.7	135.1
5.9	77.5°	7.9	23.7	48.3	70.0	87.8	112.4	124.3	130.2	96.7
3.9	80°	4.9	17.8	40.4	57.2	57.2	82.8	96.7	101.6	70.0
3.0	82.5°	3.9	12.8	31.6	43.4	38.5	62.1	75.9	76.9	49.3
2.0	85°	3.0	9.9	19.7	28.6	26.6	43.4	44.4	49.3	32.5
2.0	87.5°	2.0	5.9	11.8	16.8	14.8	20.7	23.7	26.6	17.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
9173.4
8904.2
8755.2
8537.3
8129.0
7690.1
7181.1
6672.2
6112.0
5571.5
5027.1
4537.9
4050.7
3575.3
3134.4
2711.3
2290.2
1870.0
1502.1
1230.9
1013.9
838.3
697.3
586.8
496.1
421.1
358.0
304.8
252.5
180.5
128.2
90.7
65.1
45.4
29.6
15.8
0.0

(END OF REPORT)