

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: P636651

Luminaire Tested: **IFLD-S-SA2B-940-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636651  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-940-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 4000K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6569.1 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G0

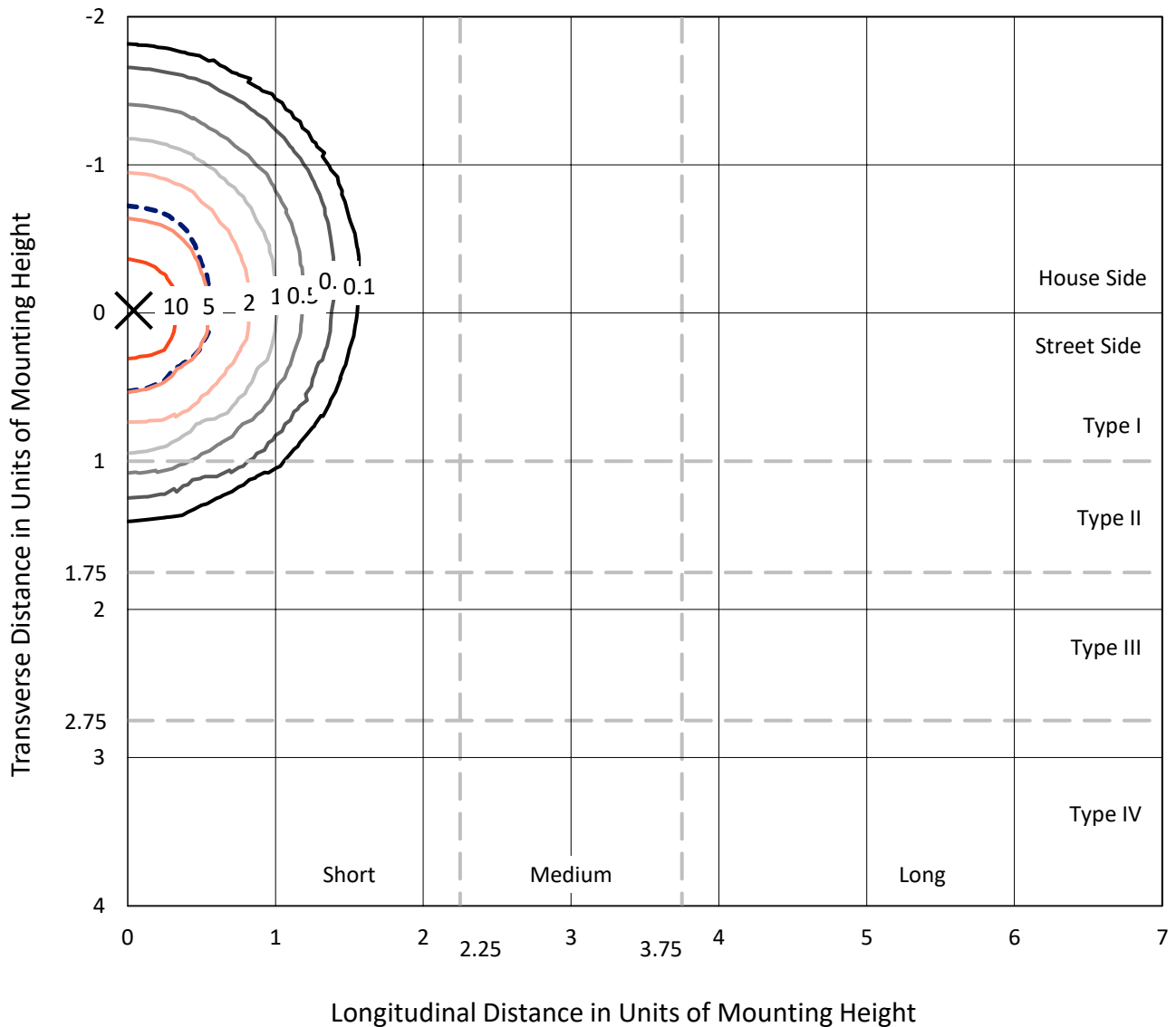
Input Watts (W): 82.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

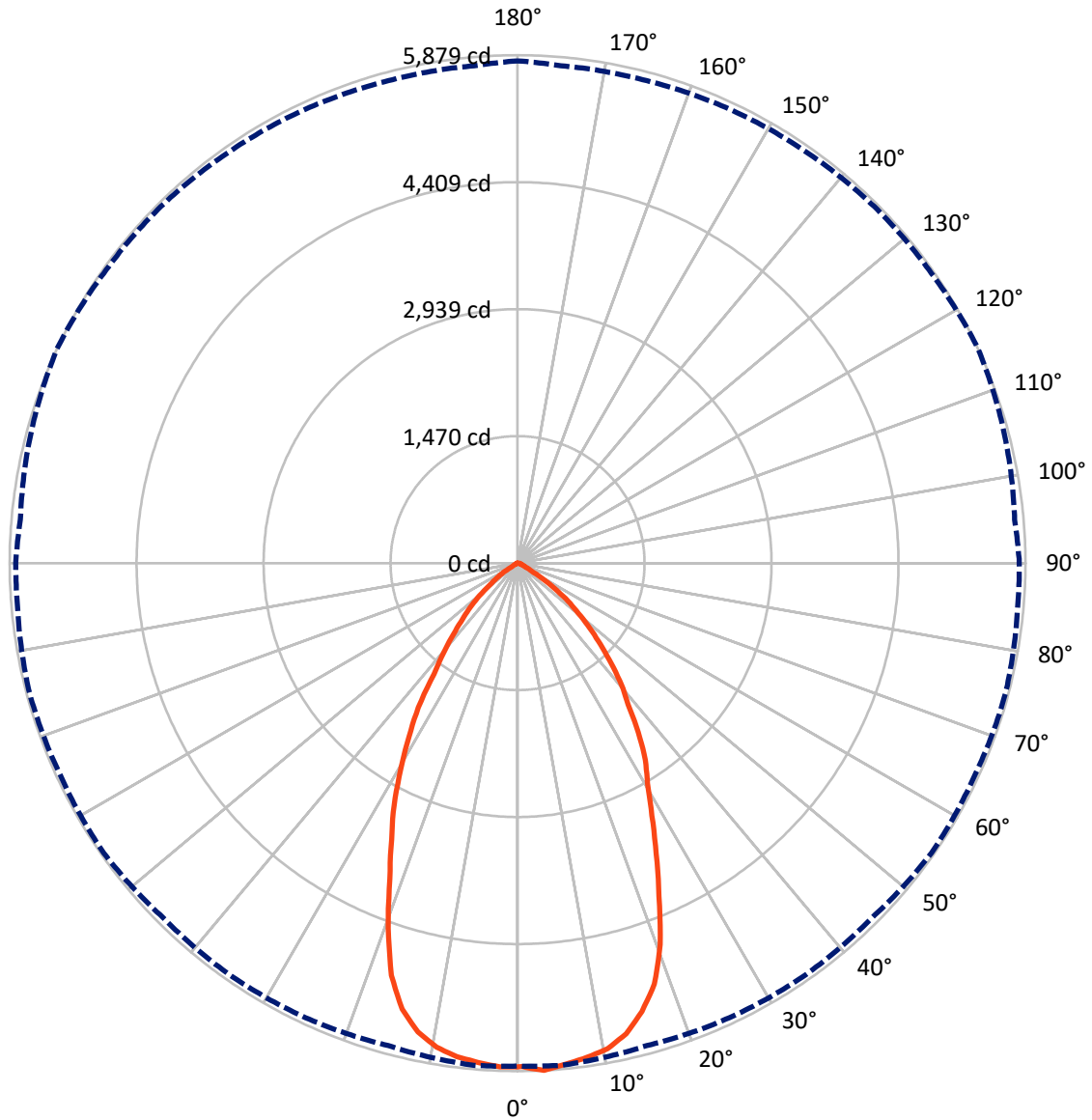
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14.6 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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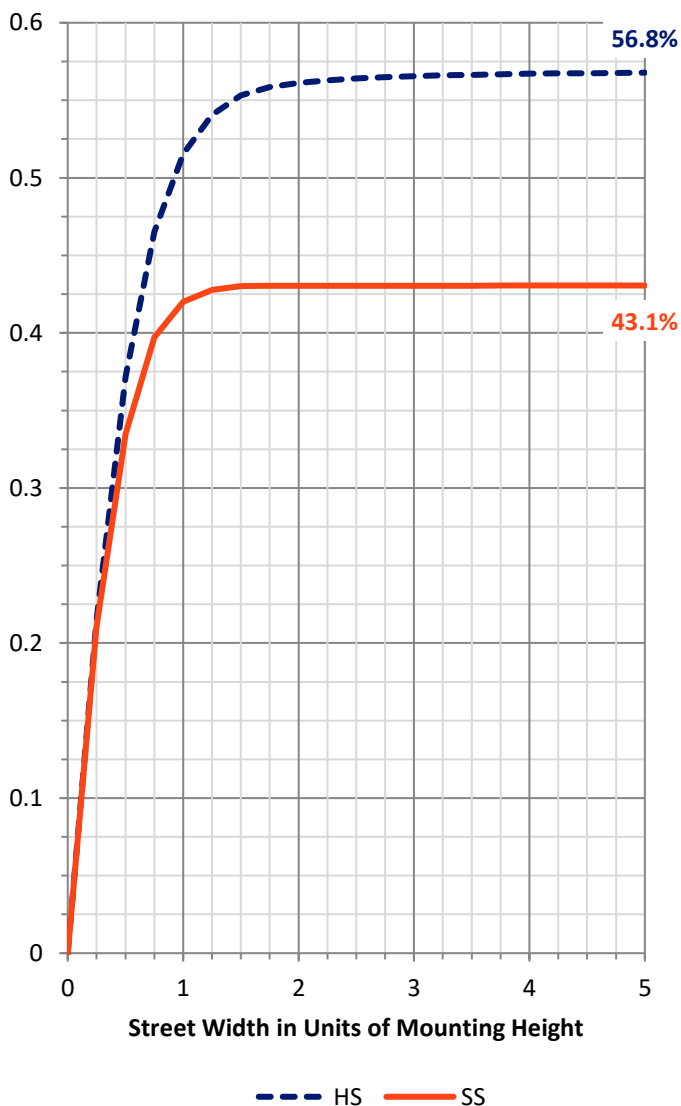
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3759.4	0.0	3759.4
	% Fixture	57.2	0.0	57.2
<b>Street Side</b>	Lumens	2809.7	0.0	2809.7
	% Fixture	42.8	0.0	42.8
<b>Total</b>	Lumens	6569.1	0.0	6569.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.0	8.4
10°-20°	1455.6	22.2
20°-30°	1664.9	25.3
30°-40°	1426.8	21.7
40°-50°	943.4	14.4
50°-60°	411.7	6.3
60°-70°	80.9	1.2
70°-80°	29.2	0.4
80°-90°	7.8	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°	6569.1	100.0
0°-180°	6569.1	100.0



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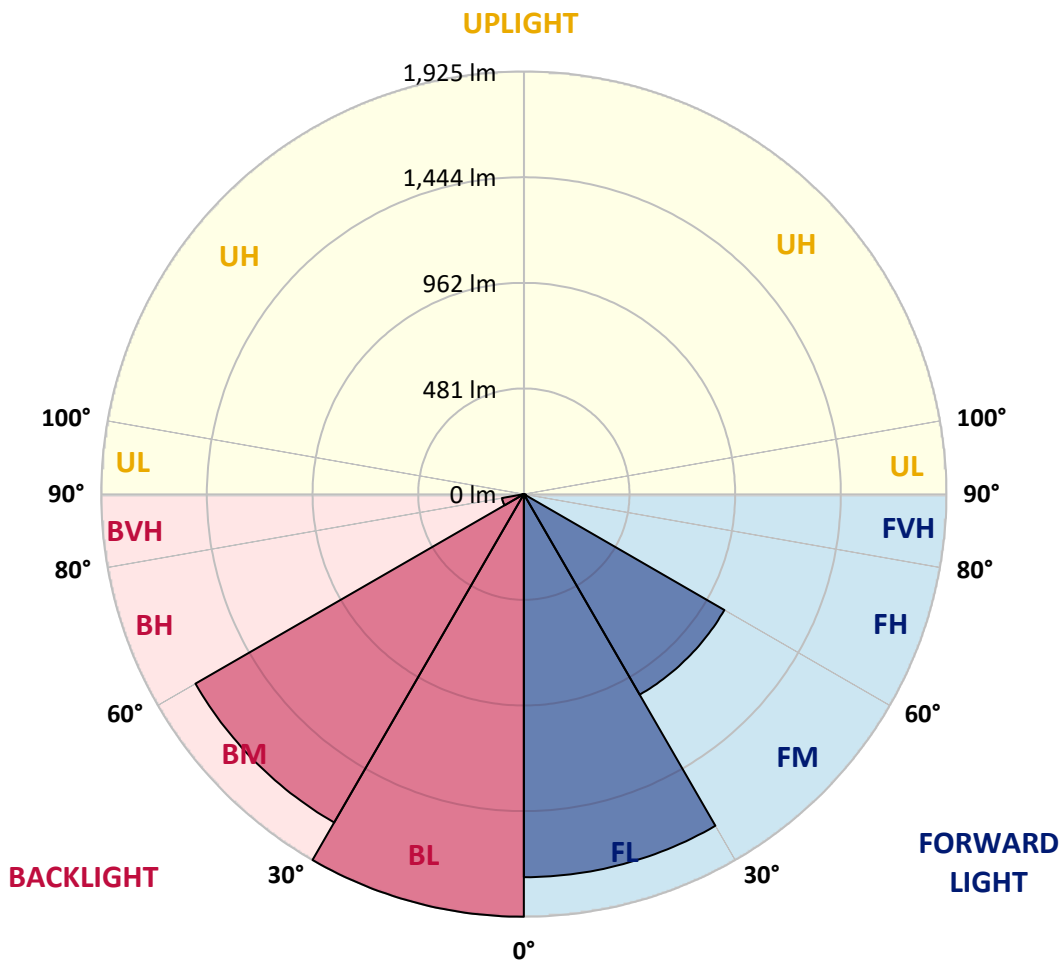
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1744.6	26.6			
FM (30°-60°)	1054.9	16.1			
FH (60°-80°)	8.9	0.1			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	1924.8	29.3	B3/2500		
BM (30°-60°)	1727.0	26.3	B2/2500		
BH (60°-80°)	101.1	1.5	B0/110		G0/110
BVH (80°-90°)	6.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5828.5	5828.5	5828.5	5828.5	5828.5	5828.5	5828.5	5828.5	5828.5	5828.5
2.5°	5820.1	5834.0	5781.0	5804.7	5814.5	5801.9	5848.0	5834.0	5845.2	5810.3
5°	5820.1	5834.0	5772.6	5783.8	5786.6	5762.8	5813.1	5796.3	5797.7	5761.4
7.5°	5783.8	5800.5	5744.7	5753.1	5754.5	5734.9	5778.2	5754.5	5746.1	5708.4
10°	5686.0	5695.8	5645.5	5666.5	5686.0	5667.9	5705.6	5679.0	5679.0	5645.5
12.5°	5531.0	5549.2	5493.3	5518.5	5535.2	5514.3	5557.6	5547.8	5549.2	5515.7
15°	5249.0	5186.1	5253.2	5303.4	5304.8	5300.6	5341.1	5331.4	5338.3	5288.1
17.5°	3877.7	3862.4	3940.6	4534.0	4975.3	5035.3	5042.3	4989.2	4965.5	4916.6
20°	3592.9	3604.0	3587.3	3590.1	3937.8	4659.7	4616.4	4485.2	4425.1	4376.2
22.5°	3384.8	3366.7	3355.5	3348.5	3358.3	3828.9	4140.2	3942.0	3909.8	3886.1
25°	3158.6	3150.2	3136.3	3133.5	3127.9	3048.3	3496.5	3514.7	3463.0	3433.7
27.5°	2947.7	2942.2	2926.8	2925.4	2861.2	2668.5	2717.3	3148.8	3134.9	3123.7
30°	2722.9	2711.8	2703.4	2703.4	2509.3	2311.0	2231.4	2745.3	2745.3	2735.5
32.5°	2478.6	2468.8	2471.6	2438.1	2206.3	2024.7	1899.1	2369.6	2516.3	2507.9
35°	1515.1	1512.3	1795.7	2168.6	1896.3	1731.5	1723.1	2027.5	2241.2	2263.5
37.5°	1348.9	1340.5	1344.7	1368.4	1624.0	1558.4	1555.6	1607.2	1907.4	1918.6
40°	1210.7	1205.1	1200.9	1115.7	1034.7	1390.8	1381.0	1347.5	1629.6	1649.1
42.5°	1079.4	1073.8	1073.8	953.7	822.5	1143.6	1147.8	1108.7	1374.0	1381.0
45°	943.9	939.8	916.0	761.0	723.3	759.6	950.9	906.2	1090.6	1163.2
47.5°	445.4	442.7	640.9	632.6	629.8	607.4	726.1	751.2	865.8	938.4
50°	357.5	354.7	337.9	297.4	518.1	460.8	523.6	578.1	614.4	681.4
52.5°	296.0	293.2	258.3	229.0	287.7	336.5	312.8	386.8	385.4	458.0
55°	194.1	180.1	198.3	187.1	150.8	244.4	238.8	293.2	286.3	349.1
57.5°	4.2	4.2	9.8	106.1	95.0	103.3	136.8	167.6	188.5	206.7
60°	1.4	1.4	2.8	5.6	39.1	43.3	53.1	61.4	86.6	107.5
62.5°	0.0	0.0	1.4	2.8	5.6	22.3	25.1	29.3	40.5	55.9
65°	0.0	0.0	0.0	1.4	2.8	5.6	8.4	18.2	25.1	32.1
67.5°	0.0	0.0	0.0	1.4	1.4	2.8	5.6	8.4	11.2	22.3
70°	0.0	0.0	0.0	1.4	1.4	2.8	4.2	5.6	8.4	11.2
72.5°	0.0	0.0	0.0	1.4	1.4	4.2	2.8	4.2	5.6	7.0
75°	0.0	0.0	0.0	1.4	1.4	1.4	2.8	4.2	4.2	5.6
77.5°	0.0	0.0	0.0	1.4	2.8	2.8	2.8	2.8	2.8	4.2
80°	0.0	0.0	0.0	1.4	1.4	2.8	4.2	5.6	2.8	2.8
82.5°	0.0	0.0	0.0	2.8	1.4	5.6	8.4	7.0	2.8	1.4
85°	0.0	0.0	0.0	1.4	5.6	7.0	7.0	4.2	1.4	1.4
87.5°	0.0	0.0	0.0	1.4	1.4	2.8	4.2	4.2	1.4	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°
5828.5	0°	5828.5	5828.5	5828.5	5828.5	5828.5	5828.5	5828.5	5828.5	5828.5
5807.5	2.5°	5775.4	5829.9	5878.7	5848.0	5836.8	5814.5	5797.7	5779.6	5778.2
5757.2	5°	5725.1	5776.8	5824.3	5788.0	5790.8	5779.6	5768.4	5764.2	5767.0
5705.6	7.5°	5681.8	5725.1	5776.8	5746.1	5754.5	5747.5	5741.9	5733.5	5746.1
5638.6	10°	5616.2	5655.3	5715.4	5686.0	5681.8	5674.9	5669.3	5653.9	5660.9
5517.1	12.5°	5472.4	5521.3	5589.7	5556.2	5567.3	5547.8	5539.4	5529.6	5531.0
5306.2	15°	5276.9	5314.6	5384.4	5357.9	5366.3	5353.7	5353.7	5353.7	5363.5
4923.6	17.5°	4936.2	5013.0	5123.3	5089.8	5102.3	5105.1	5102.3	5112.1	5124.7
4379.0	20°	4381.8	4513.1	4714.2	4779.8	4806.3	4807.7	4788.2	4811.9	4837.0
3869.3	22.5°	3872.1	4010.4	4187.7	4367.9	4479.6	4474.0	4476.8	4492.1	4518.7
3415.5	25°	3430.9	3563.5	3724.1	3884.7	4129.1	4179.3	4180.7	4194.7	4215.7
3105.5	27.5°	3112.5	3164.2	3310.8	3472.8	3735.3	3895.9	3887.5	3900.1	3922.4
2717.3	30°	2728.5	2926.8	2960.3	3059.5	3285.7	3580.3	3581.7	3595.7	3618.0
2488.3	32.5°	2481.4	2612.6	2715.9	2718.7	2911.4	3214.5	3274.5	3288.5	3303.8
2251.0	35°	2249.6	2264.9	2404.6	2443.7	2555.4	2855.6	2961.7	2970.1	2995.2
1914.4	37.5°	1946.5	2037.3	2076.4	2216.0	2221.6	2464.6	2675.5	2667.1	2686.6
1647.7	40°	1668.7	1755.2	1854.4	1956.3	1970.3	2151.8	2385.0	2393.4	2401.8
1367.0	42.5°	1378.2	1488.5	1590.5	1658.9	1753.8	1858.6	2080.6	2119.7	2139.2
1171.6	45°	1192.5	1223.2	1344.7	1445.2	1541.6	1590.5	1798.5	1869.7	1882.3
927.2	47.5°	939.8	1043.1	1125.5	1210.7	1330.7	1374.0	1524.8	1624.0	1633.8
688.4	50°	726.1	800.1	913.2	990.0	1129.7	1153.4	1256.7	1385.2	1397.8
460.8	52.5°	519.5	620.0	730.3	804.3	938.4	969.1	1045.9	1168.8	1177.1
353.3	55°	372.8	438.5	529.2	635.3	733.1	801.5	854.6	971.9	983.0
231.8	57.5°	254.1	315.6	353.3	459.4	518.1	592.1	635.3	724.7	733.1
110.3	60°	121.5	150.8	180.1	233.2	270.9	333.7	361.7	398.0	407.7
67.0	62.5°	78.2	92.2	117.3	139.6	175.9	215.0	226.2	256.9	268.1
41.9	65°	51.7	65.6	92.2	97.7	134.1	164.8	178.7	201.1	213.6
25.1	67.5°	29.3	46.1	68.4	81.0	106.1	135.4	150.8	170.4	181.5
16.8	70°	19.5	37.7	54.5	67.0	83.8	108.9	128.5	145.2	152.2
8.4	72.5°	11.2	23.7	37.7	53.1	67.0	90.8	108.9	122.9	81.0
5.6	75°	7.0	18.2	32.1	44.7	55.9	72.6	88.0	86.6	36.3
4.2	77.5°	5.6	14.0	27.9	37.7	46.1	50.3	62.8	71.2	27.9
2.8	80°	4.2	11.2	25.1	32.1	18.2	36.3	48.9	53.1	19.5
2.8	82.5°	2.8	7.0	20.9	22.3	12.6	26.5	39.1	34.9	14.0
1.4	85°	1.4	4.2	7.0	12.6	11.2	12.6	9.8	14.0	9.8
1.4	87.5°	1.4	2.8	5.6	5.6	5.6	4.2	5.6	5.6	5.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
5828.5  
*5811.7*  
5801.9  
5781.0  
5694.4  
5571.5  
5367.7  
5166.6  
4853.8  
4522.9  
4252.0  
3943.4  
3657.1  
3338.7  
3021.8  
2710.4  
2428.3  
2167.2  
1913.0  
1657.5  
1415.9  
1192.5  
992.8  
749.9  
418.9  
270.9  
213.6  
180.1  
150.8  
65.6  
36.3  
27.9  
20.9  
14.0  
9.8  
5.6  
0.0

(END OF REPORT)