

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: P636652

Luminaire Tested: **IFLD-S-SA2C-940-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636652  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-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: 8177.6 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

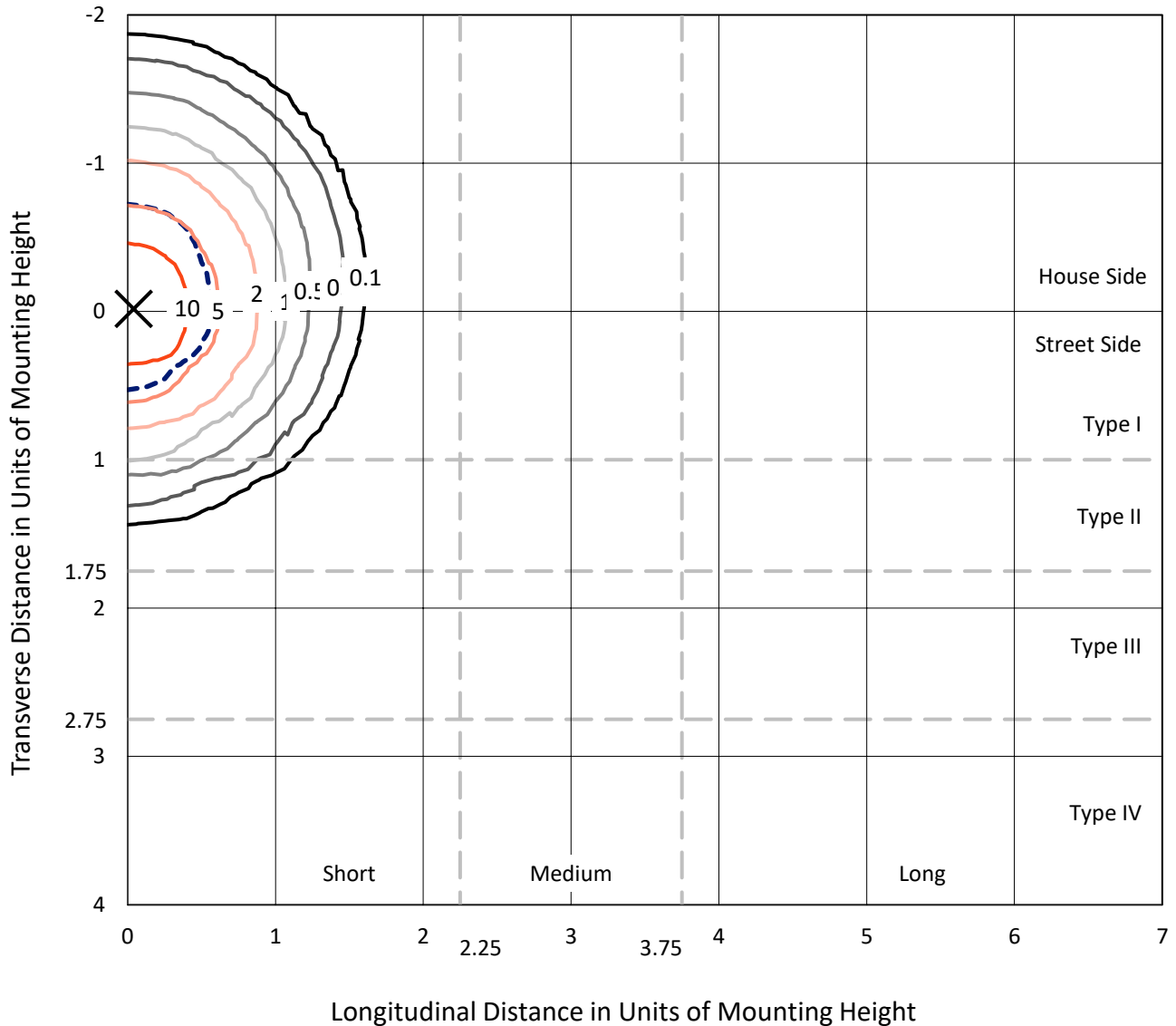
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

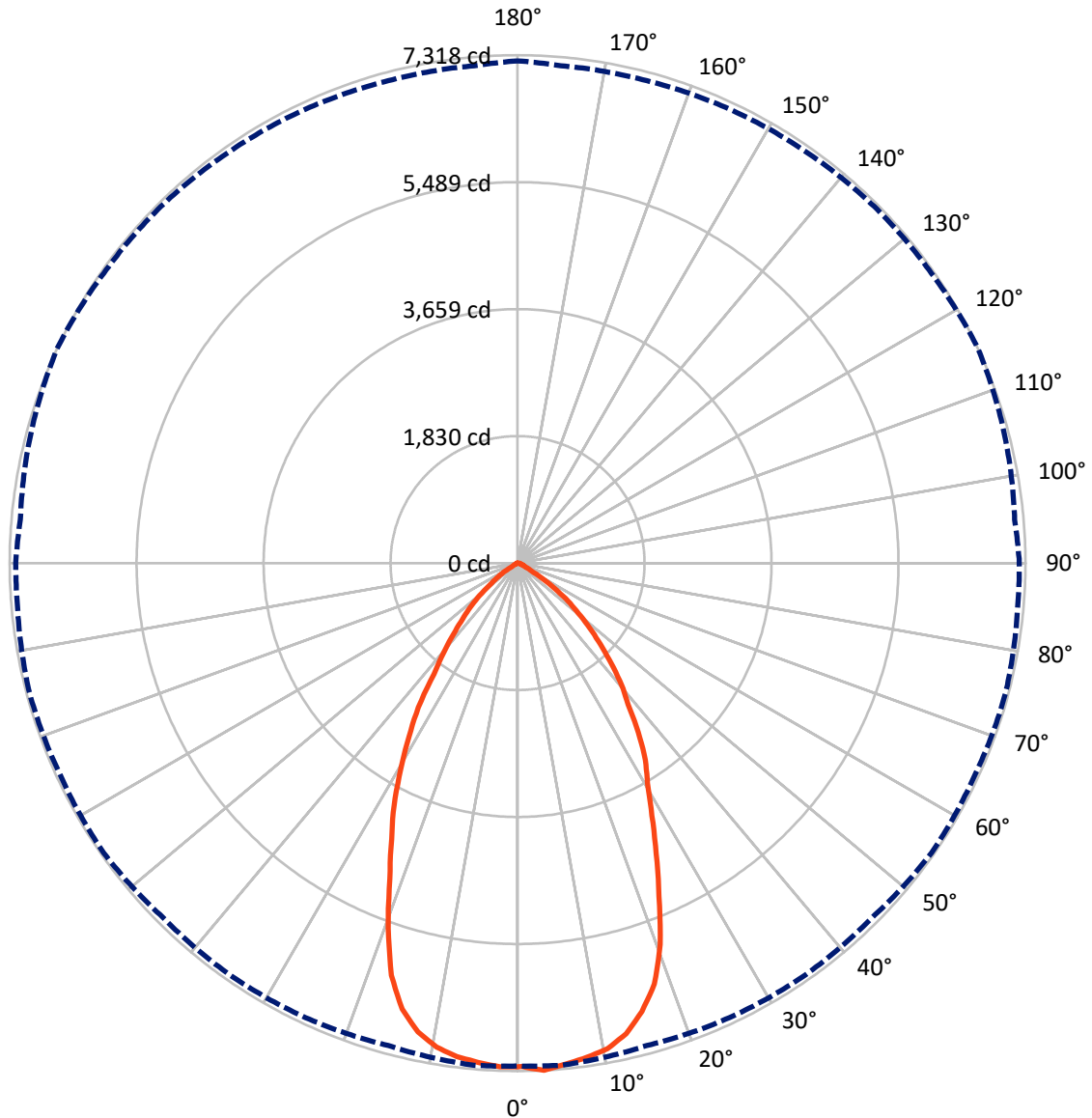
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.1 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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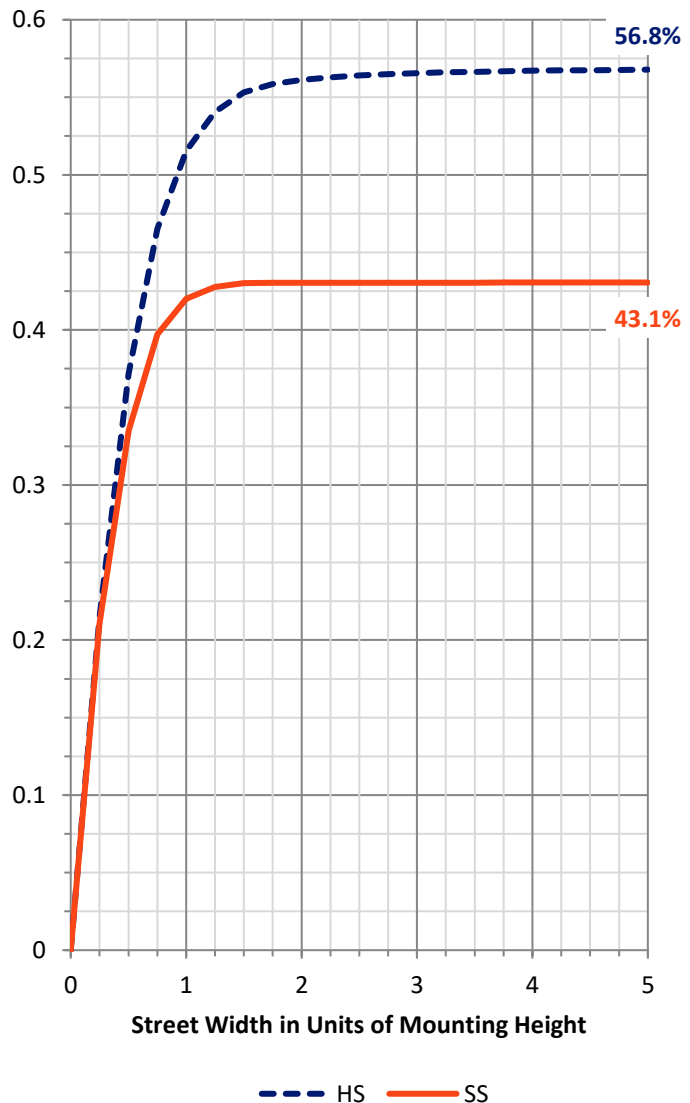
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4679.9	0.0	4679.9
	% Fixture	57.2	0.0	57.2
<b>Street Side</b>	Lumens	3497.6	0.0	3497.6
	% Fixture	42.8	0.0	42.8
<b>Total</b>	Lumens	8177.6	0.0	8177.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	683.4	8.4
10°-20°	1812.0	22.2
20°-30°	2072.5	25.3
30°-40°	1776.1	21.7
40°-50°	1174.4	14.4
50°-60°	512.5	6.3
60°-70°	100.7	1.2
70°-80°	36.3	0.4
80°-90°	9.7	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°	8177.6	100.0
0°-180°	8177.6	100.0



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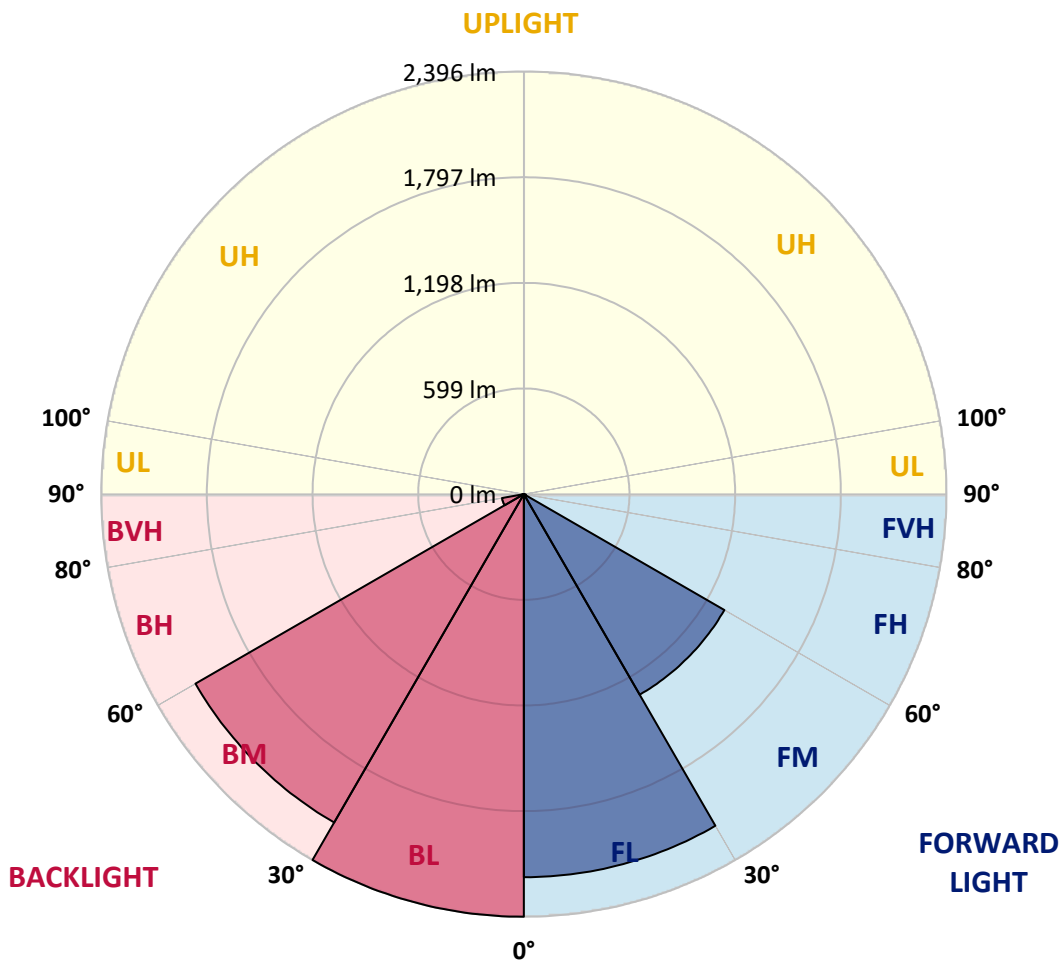
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2171.8	26.6			
FM (30°-60°)	1313.1	16.1			
FH (60°-80°)	11.1	0.1			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	2396.1	29.3	B3/2500		
BM (30°-60°)	2149.8	26.3	B2/2500		
BH (60°-80°)	125.9	1.5	B1/500		G1/500
BVH (80°-90°)	8.1	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-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7255.6	7255.6	7255.6	7255.6	7255.6	7255.6	7255.6	7255.6	7255.6	7255.6
2.5°	7245.1	7262.5	7196.5	7226.0	7238.2	7222.5	7279.9	7262.5	7276.4	7233.0
5°	7245.1	7262.5	7186.0	7199.9	7203.4	7173.9	7236.4	7215.6	7217.3	7172.1
7.5°	7199.9	7220.8	7151.3	7161.7	7163.4	7139.1	7193.0	7163.4	7153.0	7106.1
10°	7078.3	7090.4	7027.8	7053.9	7078.3	7055.7	7102.6	7069.6	7069.6	7027.8
12.5°	6885.3	6907.9	6838.4	6869.7	6890.5	6864.4	6918.3	6906.2	6907.9	6866.2
15°	6534.2	6455.9	6539.4	6602.0	6603.7	6598.5	6648.9	6636.7	6645.4	6582.8
17.5°	4827.2	4808.1	4905.4	5644.2	6193.5	6268.2	6276.9	6210.9	6181.3	6120.5
20°	4472.6	4486.5	4465.6	4469.1	4901.9	5800.6	5746.7	5583.3	5508.6	5447.8
22.5°	4213.6	4191.0	4177.1	4168.4	4180.5	4766.3	5154.0	4907.1	4867.2	4837.6
25°	3932.0	3921.5	3904.2	3900.7	3893.7	3794.7	4352.6	4375.2	4310.9	4274.4
27.5°	3669.5	3662.5	3643.4	3641.7	3561.7	3321.8	3382.7	3919.8	3902.4	3888.5
30°	3389.6	3375.7	3365.3	3365.3	3123.7	2876.8	2777.8	3417.4	3417.4	3405.3
32.5°	3085.4	3073.3	3076.7	3035.0	2746.5	2520.5	2364.1	2949.9	3132.4	3121.9
35°	1886.0	1882.6	2235.4	2699.5	2360.6	2155.5	2145.0	2524.0	2789.9	2817.7
37.5°	1679.2	1668.7	1674.0	1703.5	2021.6	1939.9	1936.4	2000.8	2374.5	2388.4
40°	1507.1	1500.1	1494.9	1388.9	1288.1	1731.3	1719.2	1677.4	2028.6	2052.9
42.5°	1343.7	1336.7	1336.7	1187.2	1023.8	1423.6	1428.9	1380.2	1710.5	1719.2
45°	1175.1	1169.9	1140.3	947.4	900.4	945.6	1183.8	1128.1	1357.6	1448.0
47.5°	554.5	551.0	797.9	787.4	784.0	756.1	903.9	935.2	1077.7	1168.1
50°	445.0	441.5	420.7	370.3	644.9	573.6	651.9	719.6	764.8	848.3
52.5°	368.5	365.0	321.6	285.1	358.1	418.9	389.4	481.5	479.8	570.2
55°	241.6	224.2	246.8	232.9	187.7	304.2	297.2	365.0	356.3	434.6
57.5°	5.2	5.2	12.2	132.1	118.2	128.6	170.4	208.6	234.7	257.3
60°	1.7	1.7	3.5	7.0	48.7	53.9	66.1	76.5	107.8	133.8
62.5°	0.0	0.0	1.7	3.5	7.0	27.8	31.3	36.5	50.4	69.5
65°	0.0	0.0	0.0	1.7	3.5	7.0	10.4	22.6	31.3	40.0
67.5°	0.0	0.0	0.0	1.7	1.7	3.5	7.0	10.4	13.9	27.8
70°	0.0	0.0	0.0	1.7	1.7	3.5	5.2	7.0	10.4	13.9
72.5°	0.0	0.0	0.0	1.7	1.7	5.2	3.5	5.2	7.0	8.7
75°	0.0	0.0	0.0	1.7	1.7	1.7	3.5	5.2	5.2	7.0
77.5°	0.0	0.0	0.0	1.7	3.5	3.5	3.5	3.5	3.5	5.2
80°	0.0	0.0	0.0	1.7	1.7	3.5	5.2	7.0	3.5	3.5
82.5°	0.0	0.0	0.0	3.5	1.7	7.0	10.4	8.7	3.5	1.7
85°	0.0	0.0	0.0	1.7	7.0	8.7	8.7	5.2	1.7	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.5	5.2	5.2	1.7	1.7
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°
7255.6	0°	7255.6	7255.6	7255.6	7255.6	7255.6	7255.6	7255.6	7255.6	7255.6
7229.5	2.5°	7189.5	7257.3	7318.1	7279.9	7266.0	7238.2	7217.3	7194.7	7193.0
7166.9	5°	7126.9	7191.2	7250.3	7205.1	7208.6	7194.7	7180.8	7175.6	7179.1
7102.6	7.5°	7073.0	7126.9	7191.2	7153.0	7163.4	7154.7	7147.8	7137.4	7153.0
7019.1	10°	6991.3	7040.0	7114.8	7078.3	7073.0	7064.3	7057.4	7038.3	7047.0
6867.9	12.5°	6812.3	6873.1	6958.3	6916.6	6930.5	6906.2	6895.7	6883.6	6885.3
6605.4	15°	6568.9	6615.9	6702.8	6669.8	6680.2	6664.5	6664.5	6664.5	6676.7
6129.2	17.5°	6144.8	6240.4	6377.7	6336.0	6351.7	6355.1	6351.7	6363.8	6379.5
5451.2	20°	5454.7	5618.1	5868.4	5950.1	5983.1	5984.9	5960.5	5990.1	6021.4
4816.8	22.5°	4820.2	4992.3	5213.1	5437.3	5576.4	5569.4	5572.9	5592.0	5625.1
4251.8	25°	4270.9	4436.1	4636.0	4835.9	5140.1	5202.7	5204.4	5221.8	5247.8
3865.9	27.5°	3874.6	3938.9	4121.4	4323.1	4649.9	4849.8	4839.4	4855.0	4882.8
3382.7	30°	3396.6	3643.4	3685.1	3808.6	4090.2	4456.9	4458.7	4476.1	4503.9
3097.6	32.5°	3088.9	3252.3	3380.9	3384.4	3624.3	4001.5	4076.3	4093.6	4112.8
2802.1	35°	2800.4	2819.5	2993.3	3042.0	3181.0	3554.8	3686.9	3697.3	3728.6
2383.2	37.5°	2423.2	2536.1	2584.8	2758.6	2765.6	3068.1	3330.5	3320.1	3344.4
2051.2	40°	2077.2	2185.0	2308.4	2435.3	2452.7	2678.7	2969.0	2979.4	2989.8
1701.8	42.5°	1715.7	1853.0	1979.9	2065.1	2183.3	2313.6	2590.0	2638.7	2663.0
1458.4	45°	1484.5	1522.7	1674.0	1799.1	1919.1	1979.9	2238.9	2327.5	2343.2
1154.2	47.5°	1169.9	1298.5	1401.0	1507.1	1656.6	1710.5	1898.2	2021.6	2033.8
857.0	50°	903.9	996.0	1136.8	1232.4	1406.3	1435.8	1564.4	1724.4	1740.0
573.6	52.5°	646.6	771.8	909.1	1001.2	1168.1	1206.4	1302.0	1454.9	1465.4
439.8	55°	464.1	545.8	658.8	790.9	912.6	997.8	1063.8	1209.8	1223.7
288.6	57.5°	316.4	392.8	439.8	571.9	644.9	737.0	790.9	902.2	912.6
137.3	60°	151.2	187.7	224.2	290.3	337.2	415.4	450.2	495.4	507.6
83.4	62.5°	97.3	114.7	146.0	173.8	219.0	267.7	281.6	319.8	333.7
52.1	65°	64.3	81.7	114.7	121.7	166.9	205.1	222.5	250.3	266.0
31.3	67.5°	36.5	57.4	85.2	100.8	132.1	168.6	187.7	212.1	226.0
20.9	70°	24.3	46.9	67.8	83.4	104.3	135.6	159.9	180.8	189.5
10.4	72.5°	13.9	29.6	46.9	66.1	83.4	113.0	135.6	153.0	100.8
7.0	75°	8.7	22.6	40.0	55.6	69.5	90.4	109.5	107.8	45.2
5.2	77.5°	7.0	17.4	34.8	46.9	57.4	62.6	78.2	88.7	34.8
3.5	80°	5.2	13.9	31.3	40.0	22.6	45.2	60.8	66.1	24.3
3.5	82.5°	3.5	8.7	26.1	27.8	15.6	33.0	48.7	43.5	17.4
1.7	85°	1.7	5.2	8.7	15.6	13.9	15.6	12.2	17.4	12.2
1.7	87.5°	1.7	3.5	7.0	7.0	7.0	5.2	7.0	7.0	7.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
7255.6  
7234.7  
7222.5  
7196.5  
7088.7  
6935.7  
6681.9  
6431.6  
6042.2  
5630.3  
5293.0  
4908.9  
4552.5  
4156.2  
3761.6  
3374.0  
3022.9  
2697.8  
2381.4  
2063.3  
1762.6  
1484.5  
1235.9  
933.5  
521.5  
337.2  
266.0  
224.2  
187.7  
81.7  
45.2  
34.8  
26.1  
17.4  
12.2  
7.0  
0.0

(END OF REPORT)