

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: P637814

Luminaire Tested: **IFLD-S-SA2E-727-U-66-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637814  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-727-U-66-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12763.3 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G1

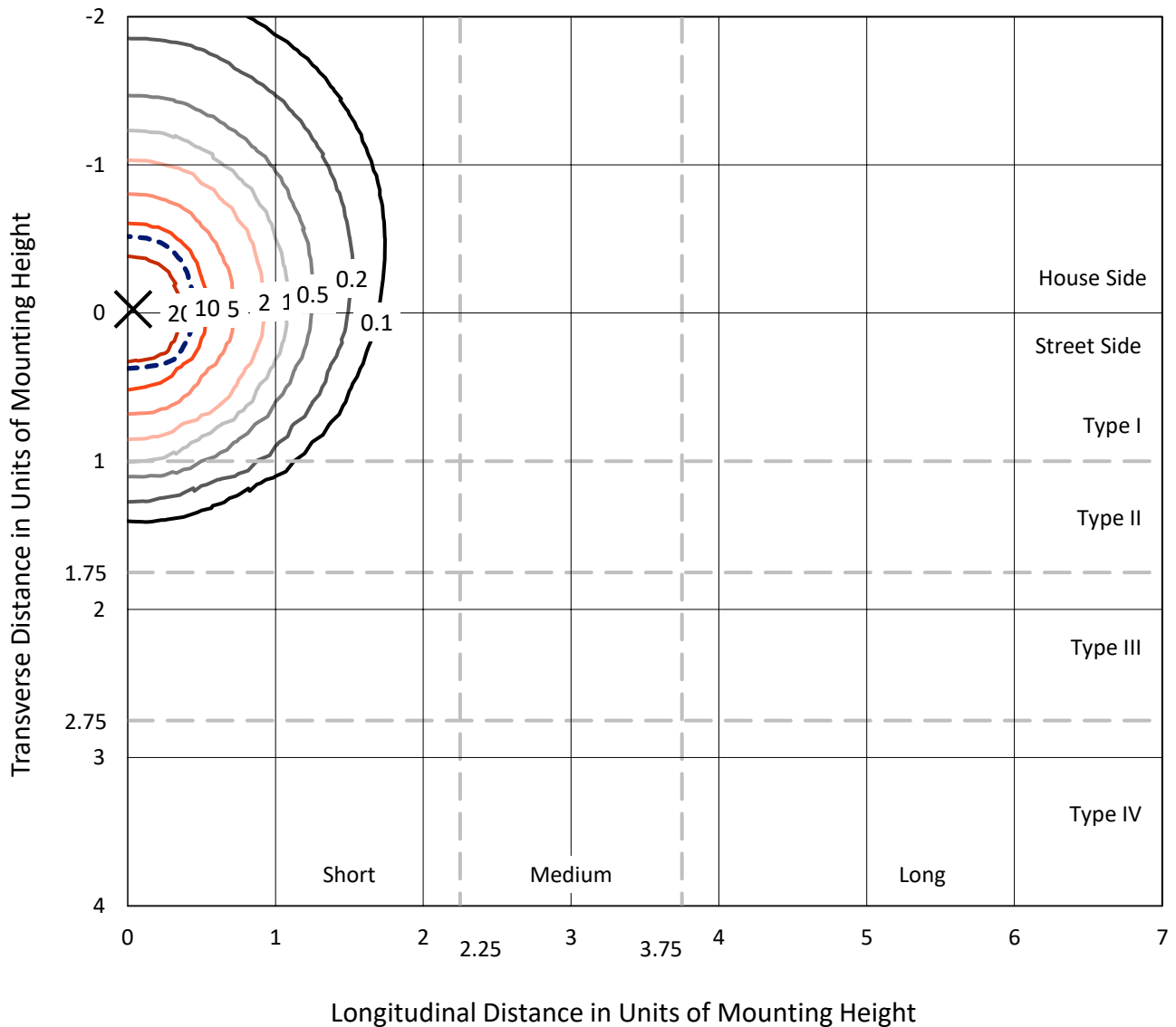
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

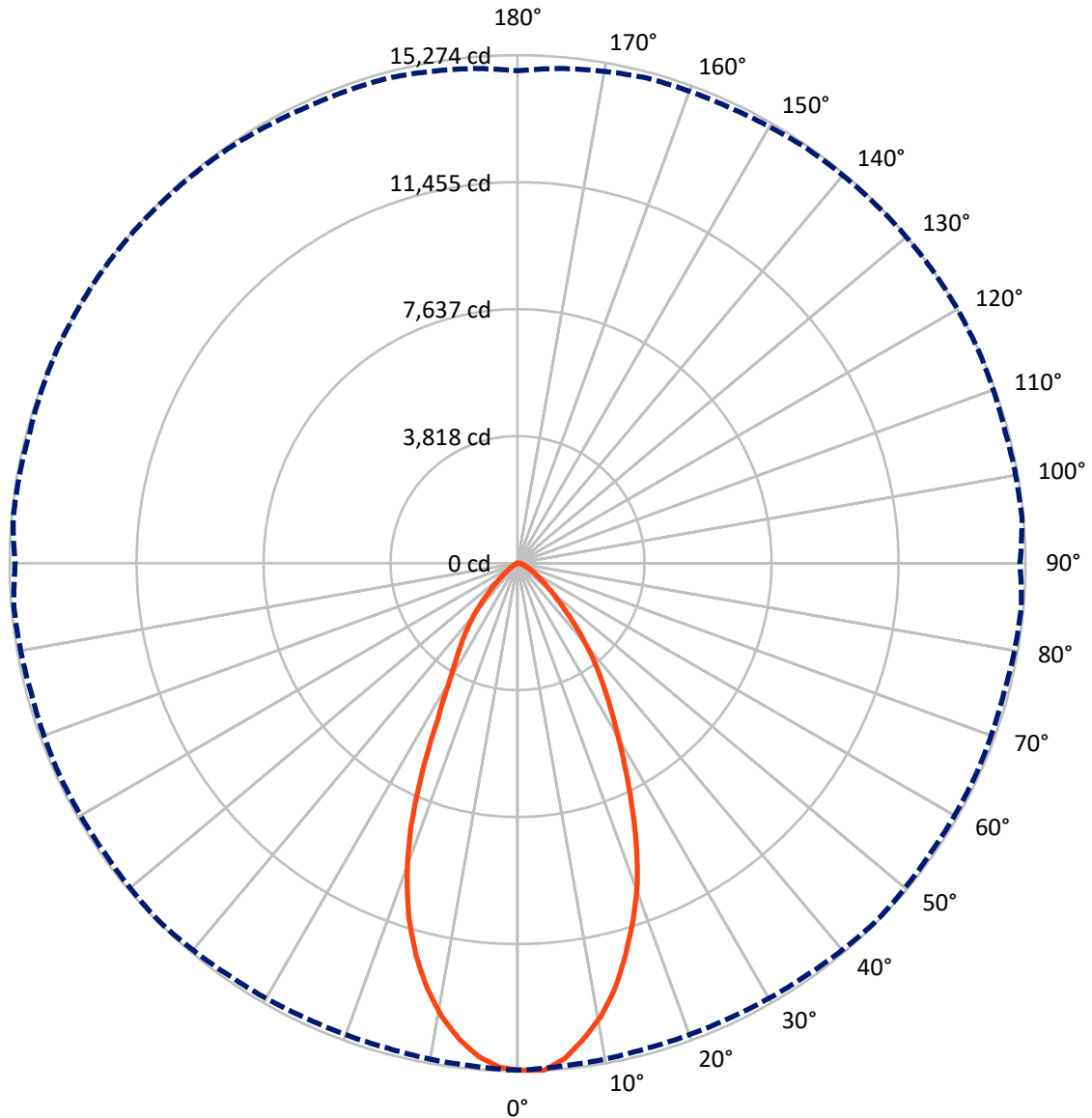
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.1 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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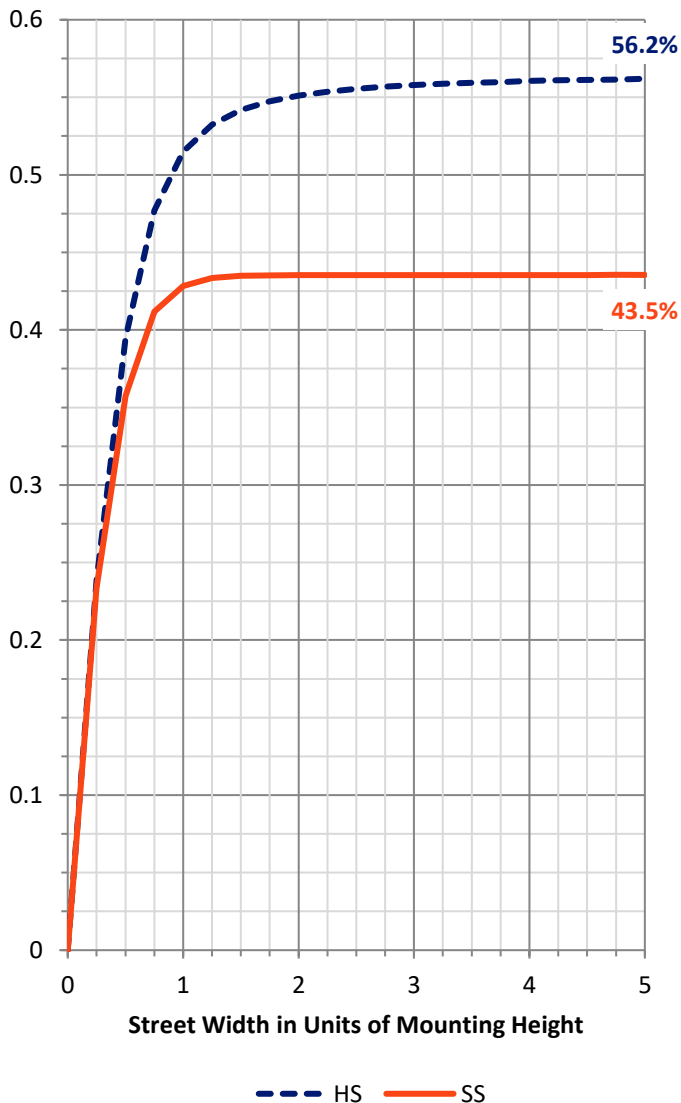
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7242.4	0.0	7242.4
	% Fixture	56.7	0.0	56.7
<b>Street Side</b>	Lumens	5520.9	0.0	5520.9
	% Fixture	43.3	0.0	43.3
<b>Total</b>	Lumens	12763.3	0.0	12763.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1384.7	10.8
10°-20°	3300.7	25.9
20°-30°	3361.7	26.3
30°-40°	2506.8	19.6
40°-50°	1309.6	10.3
50°-60°	550.8	4.3
60°-70°	225.0	1.8
70°-80°	94.7	0.7
80°-90°	29.2	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°	12763.3	100.0
0°-180°	12763.3	100.0



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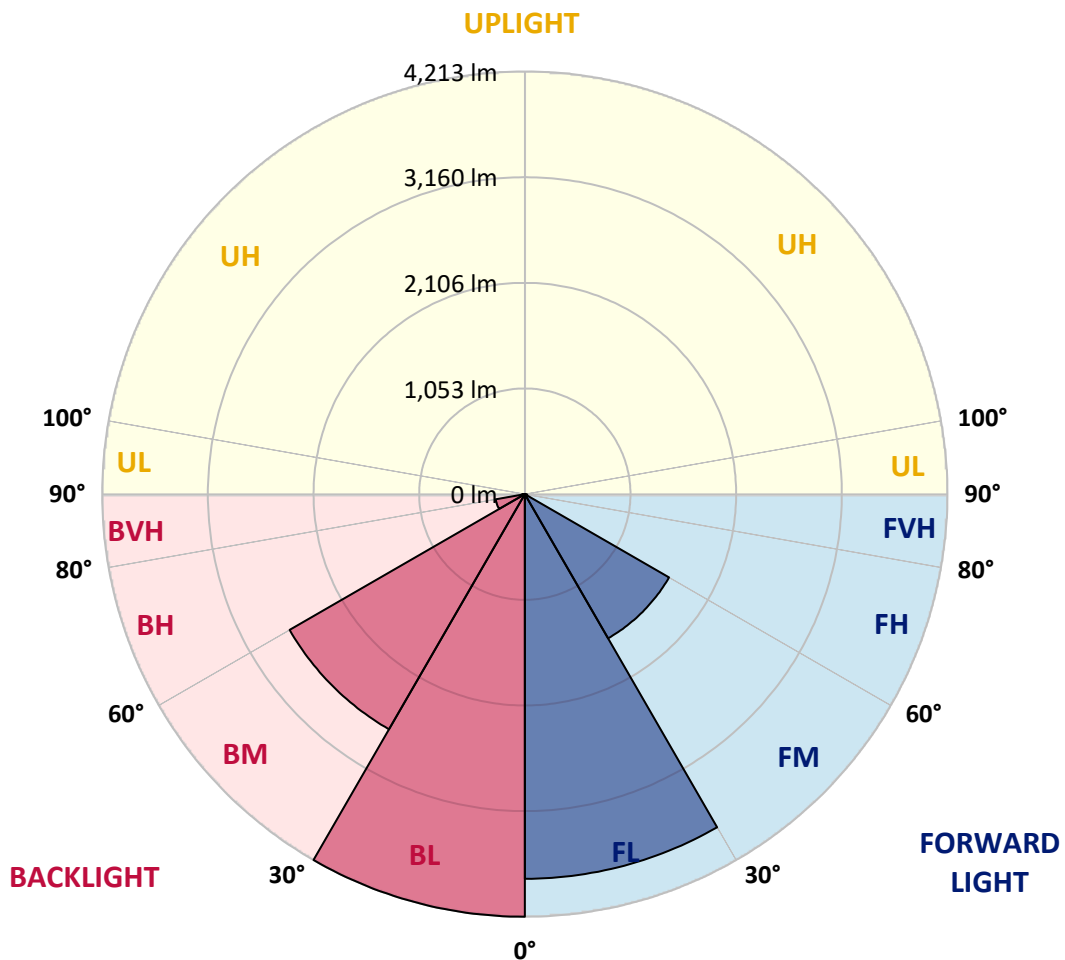
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3834.2	30.0			
FM (30°-60°)	1659.9	13.0			
FH (60°-80°)	24.0	0.2			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	4212.9	33.0	B4/5000		
BM (30°-60°)	2707.4	21.2	B3/5000		
BH (60°-80°)	295.6	2.3	B1/500		G1/500
BVH (80°-90°)	26.5	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°	15249.0	15249.0	15249.0	15249.0	15249.0	15249.0	15249.0	15249.0	15249.0	15249.0
2.5°	15250.7	15188.4	15099.8	15091.6	15137.5	15237.6	15173.6	15176.9	15137.5	15204.8
5°	15011.3	14952.3	14891.6	14811.3	14878.5	14921.1	14888.3	14852.3	14801.4	14867.0
7.5°	14558.8	14526.0	14435.8	14399.8	14440.8	14488.3	14417.8	14408.0	14337.5	14422.7
10°	13866.9	13853.8	13765.3	13744.0	13780.0	13852.2	13821.0	13814.5	13770.2	13762.0
12.5°	13148.8	13098.0	12988.2	12981.6	13035.7	13143.9	13060.3	12980.0	13004.6	13025.9
15°	11299.5	11245.4	11517.5	11945.4	12170.0	12161.8	12186.4	12089.7	12060.2	12070.0
17.5°	8982.8	8891.0	8989.4	9651.8	10719.1	11338.8	11168.3	10960.1	10848.6	10774.8
20°	7753.2	7758.1	7740.1	7910.6	8576.2	9989.5	9948.5	9546.8	9400.9	9340.3
22.5°	7005.6	6977.7	6938.4	6992.5	7171.2	8000.8	8556.6	8187.7	8136.9	8069.6
25°	6272.7	6272.7	6225.2	6279.3	6330.1	6341.6	6899.0	7049.9	6951.5	6951.5
27.5°	5638.3	5605.5	5584.2	5608.7	5541.5	5218.5	5289.0	6061.2	5994.0	5953.0
30°	5008.7	4998.8	4962.8	4995.6	4746.4	4382.4	4234.8	5115.3	5185.8	5171.0
32.5°	4134.8	4174.2	4334.9	4385.7	3959.4	3665.9	3524.9	4246.3	4528.3	4516.8
35°	2810.1	2842.9	3026.5	3633.1	3282.3	3072.4	3031.4	3377.4	3841.4	3885.6
37.5°	2237.9	2233.0	2285.5	2393.7	2638.0	2587.1	2575.7	2665.8	3133.1	3152.8
40°	1844.4	1837.9	1836.2	1747.7	1687.1	2151.0	2119.9	2065.8	2470.7	2510.1
42.5°	1487.0	1493.6	1498.5	1305.0	1216.5	1659.2	1641.1	1585.4	1937.9	1983.8
45°	1167.3	1165.7	1175.5	972.2	947.6	1060.8	1226.3	1182.1	1462.4	1511.6
47.5°	605.0	626.3	759.1	752.5	764.0	752.5	928.0	916.5	1100.1	1178.8
50°	406.6	413.2	424.6	426.3	601.7	554.2	629.6	713.2	770.6	891.9
52.5°	314.8	319.7	290.2	272.2	368.9	409.9	413.2	493.5	537.8	660.7
55°	175.4	196.7	211.5	213.1	203.3	303.3	301.7	365.6	400.0	482.0
57.5°	23.0	27.9	42.6	137.7	136.1	168.9	211.5	265.6	285.3	352.5
60°	1.6	3.3	4.9	21.3	90.2	98.4	144.3	165.6	198.4	247.6
62.5°	0.0	0.0	1.6	4.9	18.0	57.4	75.4	86.9	116.4	162.3
65°	0.0	0.0	1.6	3.3	6.6	21.3	29.5	47.5	68.9	100.0
67.5°	0.0	0.0	1.6	3.3	4.9	8.2	13.1	21.3	36.1	60.7
70°	0.0	0.0	1.6	3.3	4.9	6.6	9.8	13.1	19.7	32.8
72.5°	0.0	0.0	1.6	1.6	3.3	8.2	8.2	9.8	13.1	18.0
75°	0.0	0.0	1.6	3.3	4.9	8.2	8.2	8.2	9.8	11.5
77.5°	0.0	0.0	1.6	3.3	4.9	8.2	6.6	8.2	8.2	8.2
80°	0.0	0.0	1.6	3.3	4.9	8.2	9.8	8.2	6.6	6.6
82.5°	0.0	0.0	1.6	4.9	4.9	11.5	11.5	11.5	4.9	4.9
85°	0.0	0.0	3.3	4.9	8.2	13.1	13.1	9.8	4.9	3.3
87.5°	0.0	0.0	1.6	3.3	3.3	6.6	9.8	8.2	3.3	1.6
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°
15249.0	0°	15249.0	15249.0	15249.0	15249.0	15249.0	15249.0	15249.0	15249.0	15249.0
15106.4	2.5°	15227.7	15186.7	15263.8	15273.6	15240.8	15199.8	15104.8	15096.6	14931.0
14771.9	5°	14939.2	14871.9	14921.1	14953.9	14942.4	14898.2	14858.8	14822.8	14673.6
14229.3	7.5°	14401.4	14376.8	14399.8	14424.4	14471.9	14424.4	14408.0	14370.3	14222.7
13694.8	10°	13804.6	13758.7	13845.6	13834.1	13821.0	13807.9	13739.0	13745.6	13571.8
12966.8	12.5°	13071.8	12994.7	13078.3	13088.2	13078.3	13032.4	12955.4	12988.2	12829.1
11983.1	15°	12086.4	12078.2	12138.9	12178.2	12206.1	12156.9	12130.7	12147.1	12052.0
10717.4	17.5°	10876.5	10983.0	11181.4	11248.6	11250.3	11301.1	11286.4	11266.7	11196.2
9315.7	20°	9453.4	9658.3	9963.3	10276.4	10366.6	10324.0	10304.3	10340.4	10235.4
7999.1	22.5°	8140.1	8315.6	8669.7	9127.1	9391.1	9417.3	9412.4	9381.2	9340.3
6944.9	25°	7025.3	7181.0	7520.4	7938.5	8445.1	8520.5	8523.8	8513.9	8477.9
5989.1	27.5°	6084.2	6272.7	6459.6	6833.5	7372.9	7684.4	7645.0	7633.5	7620.4
5182.5	30°	5231.7	5469.4	5644.8	5877.6	6361.3	6782.6	6823.6	6803.9	6772.8
4515.2	32.5°	4556.2	4697.2	4920.2	5077.5	5425.1	5902.2	6059.6	6044.9	6017.0
3913.5	35°	3969.2	4025.0	4200.4	4375.8	4607.0	5069.3	5302.2	5269.4	5264.4
3188.8	37.5°	3269.2	3456.1	3552.8	3729.9	3892.2	4251.2	4572.6	4557.8	4559.5
2564.2	40°	2639.6	2747.8	2939.6	3088.8	3238.0	3500.3	3857.8	3867.6	3864.3
1985.4	42.5°	2026.4	2131.4	2333.0	2495.3	2628.1	2790.4	3131.5	3142.9	3157.7
1546.1	45°	1582.1	1649.3	1796.9	1965.8	2106.8	2205.1	2464.2	2538.0	2539.6
1198.5	47.5°	1228.0	1305.0	1410.0	1572.3	1710.0	1780.5	1969.0	2069.1	2064.1
919.8	50°	964.0	1034.5	1119.8	1247.7	1396.9	1452.6	1592.0	1690.3	1685.4
693.5	52.5°	737.8	827.9	903.4	1001.7	1147.7	1195.2	1295.2	1408.3	1391.9
508.2	55°	559.1	650.9	721.4	803.4	936.2	996.8	1065.7	1155.9	1159.1
393.5	57.5°	421.4	516.4	580.4	664.0	764.0	831.2	883.7	980.4	978.8
268.9	60°	301.7	383.6	460.7	547.6	624.7	701.7	737.8	829.6	832.9
190.2	62.5°	218.1	295.1	368.9	444.3	513.2	588.6	621.4	693.5	703.3
124.6	65°	152.5	206.6	291.8	349.2	426.3	482.0	524.6	586.9	598.4
73.8	67.5°	98.4	149.2	231.2	282.0	352.5	400.0	444.3	493.5	508.2
47.5	70°	59.0	113.1	172.1	226.3	290.2	332.8	375.4	418.1	426.3
23.0	72.5°	37.7	78.7	124.6	183.6	232.8	278.7	316.4	347.6	323.0
14.8	75°	21.3	54.1	98.4	144.3	188.5	232.8	264.0	280.4	224.6
9.8	77.5°	13.1	39.3	80.3	116.4	145.9	186.9	206.6	216.4	160.7
6.6	80°	8.2	29.5	67.2	95.1	95.1	137.7	160.7	168.9	116.4
4.9	82.5°	6.6	21.3	52.5	72.1	63.9	103.3	126.2	127.9	82.0
3.3	85°	4.9	16.4	32.8	47.5	44.3	72.1	73.8	82.0	54.1
3.3	87.5°	3.3	9.8	19.7	27.9	24.6	34.4	39.3	44.3	29.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
15249.0  
*14801.4*  
14553.9  
14191.6  
13512.8  
12783.2  
11937.2  
11091.2  
10160.0  
9261.6  
8356.6  
7543.4  
6733.4  
5943.2  
5210.3  
4507.0  
3806.9  
3108.5  
2497.0  
2046.1  
1685.4  
1393.6  
1159.1  
975.5  
824.7  
700.1  
595.1  
506.6  
419.7  
300.0  
213.1  
150.8  
108.2  
75.4  
49.2  
26.2  
0.0

(END OF REPORT)