

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: P638209

Luminaire Tested: **IFLD-L-SA7C-750-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638209  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7C-750-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34879.5 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

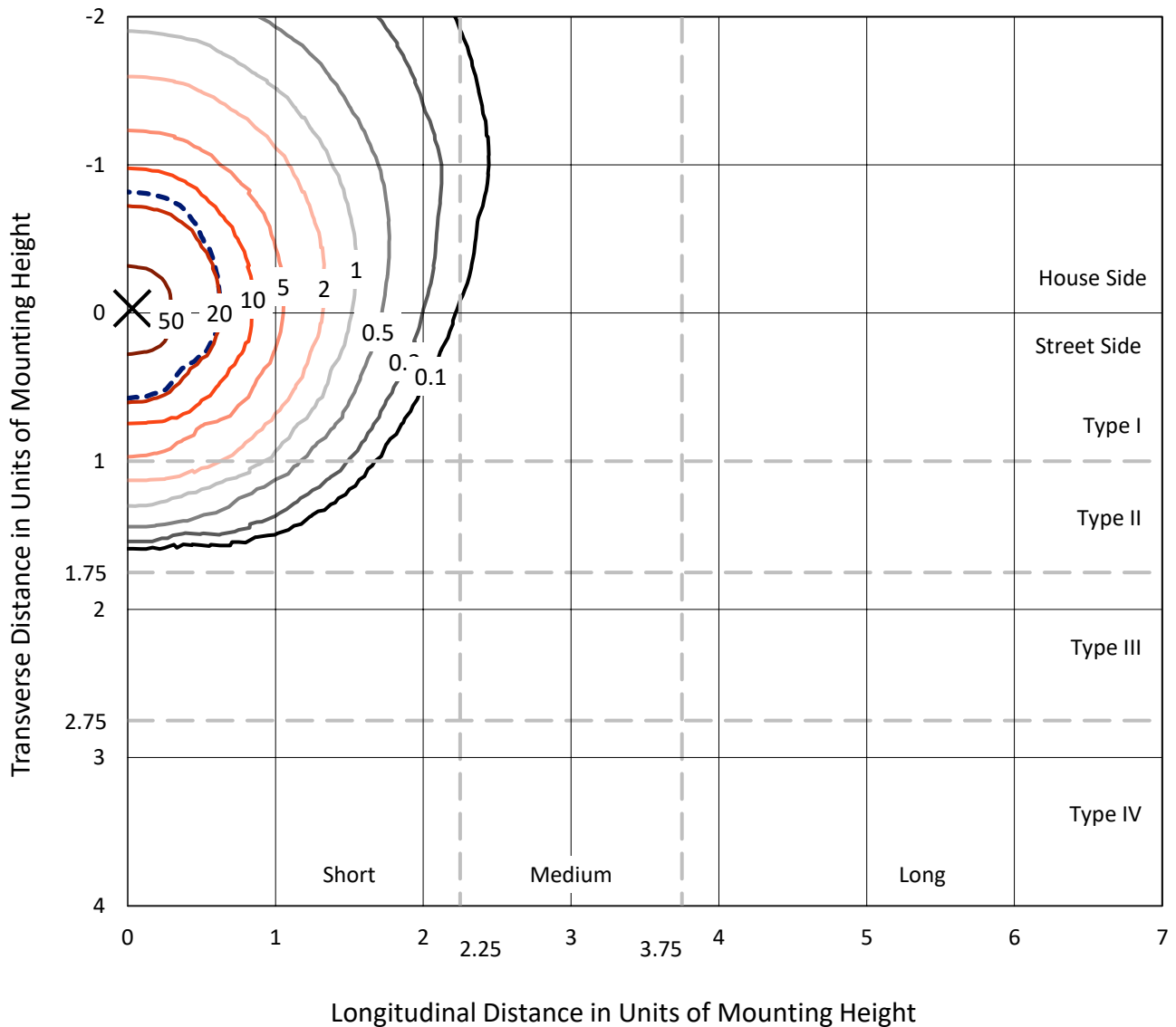
Input Watts (W): 369  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

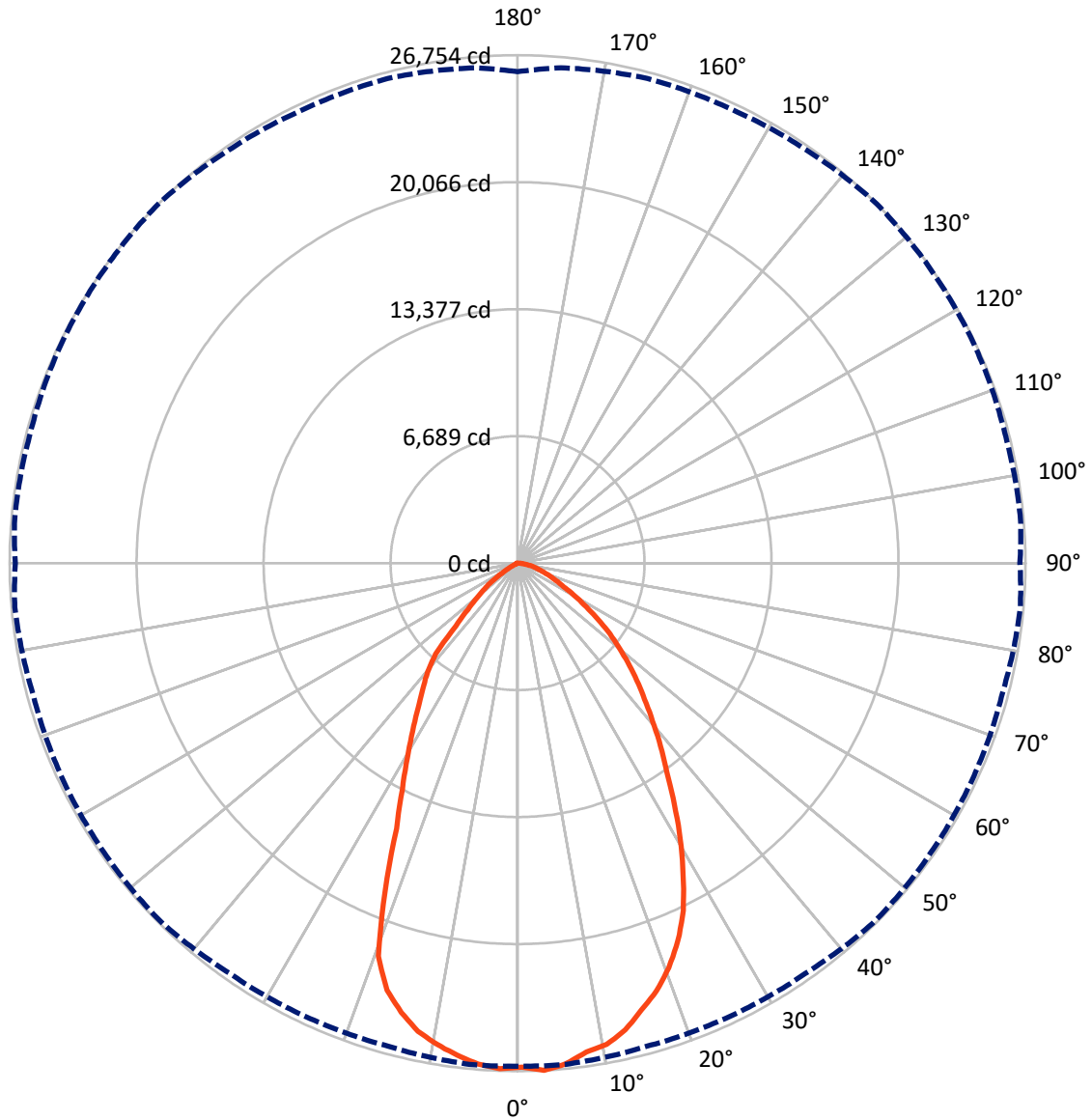
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 66.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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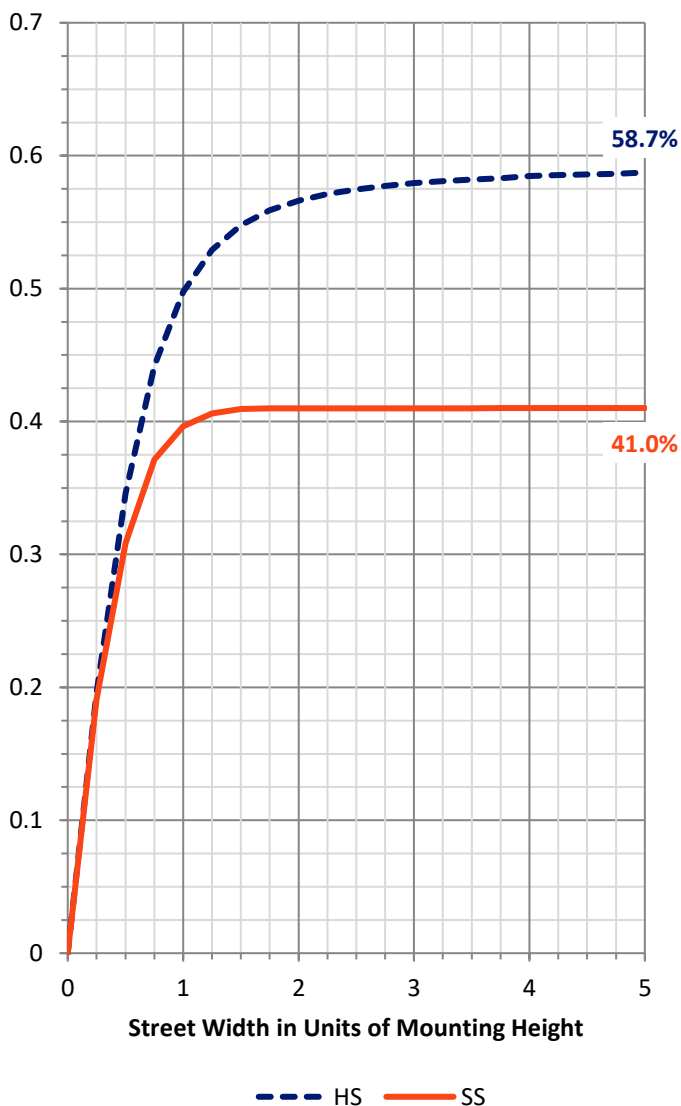
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20657.4	0.0	20657.4
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	14222.1	0.0	14222.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	34879.5	0.0	34879.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2489.3	7.1
10°-20°	6675.3	19.1
20°-30°	8140.9	23.3
30°-40°	7432.5	21.3
40°-50°	5371.3	15.4
50°-60°	2932.8	8.4
60°-70°	1212.6	3.5
70°-80°	491.1	1.4
80°-90°	133.6	0.4
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°	34879.5	100.0
0°-180°	34879.5	100.0



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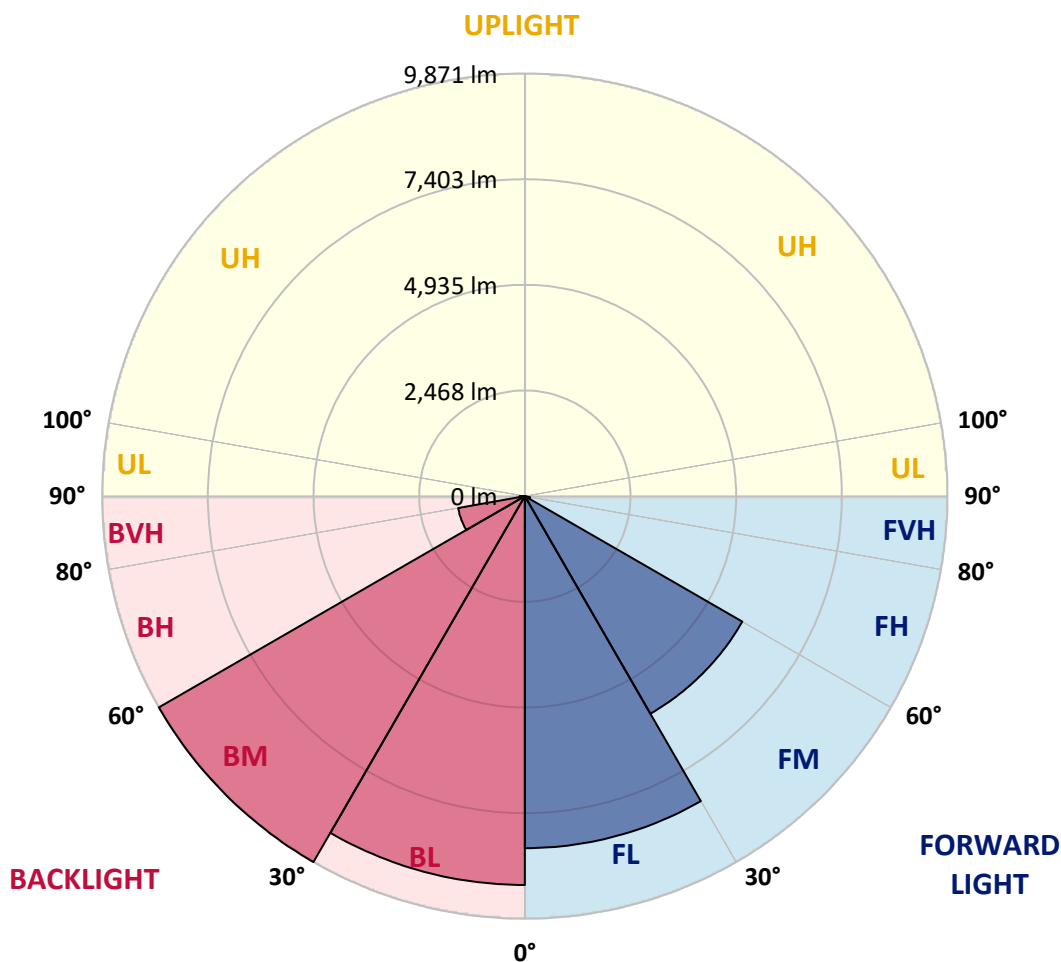
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8222.4	23.6			
FM (30°-60°)	5866.1	16.8			
FH (60°-80°)	122.9	0.4			G0/660
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	9083.1	26.0	B5		
BM (30°-60°)	9870.6	28.3	B5		
BH (60°-80°)	1580.8	4.5	B3/2500		G3/2500
BVH (80°-90°)	122.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	26543.2	26543.2	26543.2	26543.2	26543.2	26543.2	26543.2	26543.2	26543.2	26543.2
2.5°	26494.0	26528.4	26341.8	26361.4	26395.8	26646.3	26582.5	26523.5	26440.0	26582.5
5°	26459.7	26479.3	26282.8	26214.1	26243.5	26469.5	26263.2	26263.2	26243.5	26219.0
7.5°	26194.4	26204.2	26052.0	25929.2	26007.8	26110.9	25958.7	26032.3	25924.3	26007.8
10°	25796.6	25732.7	25551.0	25516.6	25605.0	25703.2	25600.1	25668.9	25570.6	25634.5
12.5°	25212.1	25113.8	24966.5	24922.3	25074.5	25207.2	25123.7	25084.4	24956.7	25113.8
15°	22957.6	22883.9	23217.9	23802.4	24328.0	24440.9	24352.5	24391.8	24126.6	24170.8
17.5°	18895.5	18758.0	19116.6	20501.7	22476.2	23517.5	23438.9	23183.5	22790.6	22879.0
20°	17171.5	17132.2	17092.9	17422.0	18802.2	21960.5	22068.5	21420.2	20860.3	20737.5
22.5°	16199.0	16184.3	16145.0	16218.6	16582.1	18610.7	19848.4	19249.2	18875.9	18841.5
25°	15310.0	15285.4	15167.5	15260.8	15260.8	15378.7	16965.2	17328.7	16999.6	16960.3
27.5°	14406.2	14362.0	14342.3	14386.5	14160.6	13364.9	13767.7	15540.8	15368.9	15378.7
30°	13428.8	13414.0	13360.0	13453.3	12755.8	11768.6	11513.2	13919.9	13954.3	13944.5
32.5°	11974.9	12038.7	12284.3	12387.5	11238.1	10422.8	9995.4	12043.6	12746.0	12731.3
35°	8698.7	8698.7	9499.3	10987.6	9848.1	9234.1	9003.3	10211.6	11552.5	11601.6
37.5°	7151.5	7176.1	7333.3	8011.1	8497.3	8281.2	8212.5	8595.6	10020.0	10098.6
40°	6434.4	6434.4	6434.4	6154.4	6139.7	7461.0	7421.7	7298.9	8654.5	8826.4
42.5°	5781.1	5795.9	5805.7	5098.4	4705.5	6449.1	6360.7	6174.1	7431.5	7632.9
45°	5108.2	5132.8	5162.3	4263.4	4091.5	4641.6	5383.3	5177.0	6223.2	6483.5
47.5°	3119.0	3158.3	3826.3	3615.1	3634.7	3580.7	4391.1	4356.7	5103.3	5471.7
50°	2107.1	2121.9	2185.7	2293.8	3119.0	2814.4	3109.1	3605.2	3875.4	4435.3
52.5°	1768.2	1792.8	1635.6	1488.3	2048.2	2200.5	2171.0	2676.9	2785.0	3477.5
55°	1242.7	1321.3	1247.6	1232.9	1164.1	1709.3	1645.4	2058.0	2126.8	2642.5
57.5°	127.7	147.4	255.4	918.5	761.3	967.6	1173.9	1507.9	1576.7	1950.0
60°	9.8	9.8	24.6	127.7	555.0	579.6	810.4	928.3	1060.9	1360.6
62.5°	0.0	4.9	9.8	19.6	88.4	309.4	407.7	486.3	638.5	879.2
65°	0.0	0.0	4.9	14.7	19.6	117.9	157.2	255.4	348.7	545.2
67.5°	0.0	0.0	4.9	9.8	14.7	29.5	54.0	93.3	186.6	309.4
70°	0.0	0.0	4.9	9.8	14.7	24.6	39.3	58.9	83.5	167.0
72.5°	0.0	0.0	4.9	4.9	9.8	24.6	29.5	39.3	58.9	83.5
75°	0.0	0.0	4.9	4.9	14.7	29.5	24.6	29.5	39.3	54.0
77.5°	0.0	0.0	4.9	9.8	14.7	29.5	24.6	29.5	29.5	34.4
80°	0.0	0.0	4.9	9.8	19.6	34.4	29.5	29.5	24.6	24.6
82.5°	0.0	0.0	4.9	14.7	19.6	44.2	44.2	39.3	19.6	14.7
85°	0.0	0.0	9.8	19.6	29.5	49.1	49.1	39.3	14.7	9.8
87.5°	0.0	0.0	9.8	14.7	24.6	34.4	49.1	39.3	14.7	4.9
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°
26543.2	0°	26543.2	26543.2	26543.2	26543.2	26543.2	26543.2	26543.2	26543.2	26543.2
26459.7	2.5°	26592.3	26562.8	26661.0	26700.3	26754.4	26548.1	26420.4	26425.3	26189.5
26160.0	5°	26317.2	26322.1	26449.8	26440.0	26494.0	26381.1	26332.0	26248.5	26042.2
25781.8	7.5°	25968.5	25924.3	26047.1	26140.4	26002.9	26081.5	25968.5	26007.8	25885.0
25447.8	10°	25698.3	25595.2	25708.2	25772.0	25776.9	25698.3	25590.3	25487.1	25442.9
24927.2	12.5°	25099.1	24966.5	25158.0	25246.5	25231.7	25079.5	24956.7	24981.2	24838.8
24013.6	15°	24273.9	24278.8	24416.4	24499.9	24421.3	24386.9	24396.7	24337.8	24215.0
22751.3	17.5°	23011.6	23085.3	23448.7	23650.1	23694.3	23625.6	23591.2	23522.4	23399.6
20737.5	20°	20909.4	21351.4	21999.8	22623.6	22746.4	22726.7	22603.9	22574.5	22505.7
18743.3	22.5°	19062.5	19391.6	20143.1	21115.7	21616.7	21665.8	21518.4	21474.2	21400.5
16960.3	25°	17151.9	17505.5	18183.3	19239.4	20275.8	20487.0	20462.4	20329.8	20251.2
15378.7	27.5°	15540.8	15894.5	16508.4	17461.3	18571.4	19249.2	19313.0	19101.8	19096.9
13969.0	30°	14086.9	14573.2	15039.8	15815.9	16891.5	17908.3	18016.3	17869.0	17883.7
12677.3	32.5°	12947.4	13350.2	13748.0	14268.7	15162.6	16346.3	16768.8	16631.2	16577.2
11601.6	35°	11783.3	12058.4	12466.1	12942.5	13551.5	14725.5	15457.3	15354.2	15300.1
10147.7	37.5°	10457.1	10928.7	11223.4	11758.8	12235.2	13168.4	14199.9	14185.2	14072.2
8909.9	40°	9096.6	9592.7	10039.6	10579.9	10948.3	11690.0	12834.4	12829.5	12844.3
7628.0	42.5°	7863.7	8320.5	8860.8	9450.2	9803.9	10344.2	11572.1	11640.9	11724.4
6571.9	45°	6748.8	7161.3	7662.3	8379.5	8806.8	9116.2	10206.6	10521.0	10516.1
5628.9	47.5°	5746.8	6134.8	6557.2	7254.7	7799.9	8079.8	8983.6	9430.6	9401.1
4617.1	50°	4823.3	5167.2	5609.2	6115.1	6847.0	7092.6	7765.5	8354.9	8310.7
3678.9	52.5°	3880.3	4356.7	4730.0	5191.7	5962.9	6203.6	6724.2	7298.9	7264.5
2760.4	55°	3025.6	3487.4	3939.2	4337.1	4985.4	5344.0	5717.3	6306.7	6296.9
2161.2	57.5°	2288.9	2794.8	3222.1	3600.3	4116.1	4558.1	4857.7	5393.1	5461.9
1478.4	60°	1694.6	2082.6	2544.3	2966.7	3374.4	3831.2	4032.6	4558.1	4587.6
1011.8	62.5°	1154.3	1581.6	2033.5	2416.6	2721.1	3192.6	3374.4	3806.6	3860.6
648.4	65°	800.6	1075.7	1591.4	1866.5	2239.8	2642.5	2824.3	3168.1	3276.1
373.3	67.5°	530.5	766.2	1242.7	1493.2	1861.6	2136.6	2367.5	2647.4	2765.3
235.8	70°	289.8	564.9	889.0	1178.8	1498.1	1763.3	1989.3	2215.2	2318.4
108.1	72.5°	196.5	378.2	618.9	933.2	1208.3	1468.6	1670.0	1837.0	1841.9
63.9	75°	98.2	255.4	471.5	722.0	943.1	1198.5	1380.2	1478.4	1360.6
39.3	77.5°	58.9	186.6	383.1	579.6	766.2	967.6	1070.8	1124.8	933.2
29.5	80°	34.4	132.6	299.6	461.7	530.5	712.2	810.4	825.2	623.8
19.6	82.5°	24.6	98.2	235.8	338.9	324.2	501.0	609.1	589.4	397.9
14.7	85°	14.7	68.8	147.4	211.2	196.5	329.1	353.6	363.5	230.9
9.8	87.5°	9.8	39.3	78.6	113.0	93.3	142.4	142.4	171.9	113.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
26543.2  
25885.0  
25993.0  
25678.7  
25246.5  
24716.0  
24092.2  
23345.6  
22348.5  
21380.9  
20167.7  
19087.1  
17810.0  
16582.1  
15226.5  
14165.5  
12844.3  
11680.2  
10525.9  
9410.9  
8350.0  
7338.2  
6321.4  
5432.4  
4631.8  
3870.5  
3251.6  
2750.6  
2279.1  
1797.7  
1272.1  
898.9  
584.5  
368.4  
211.2  
98.2  
0.0

(END OF REPORT)