

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: P638258

Luminaire Tested: **IFLD-S-SA6D-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638258  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25852.4 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

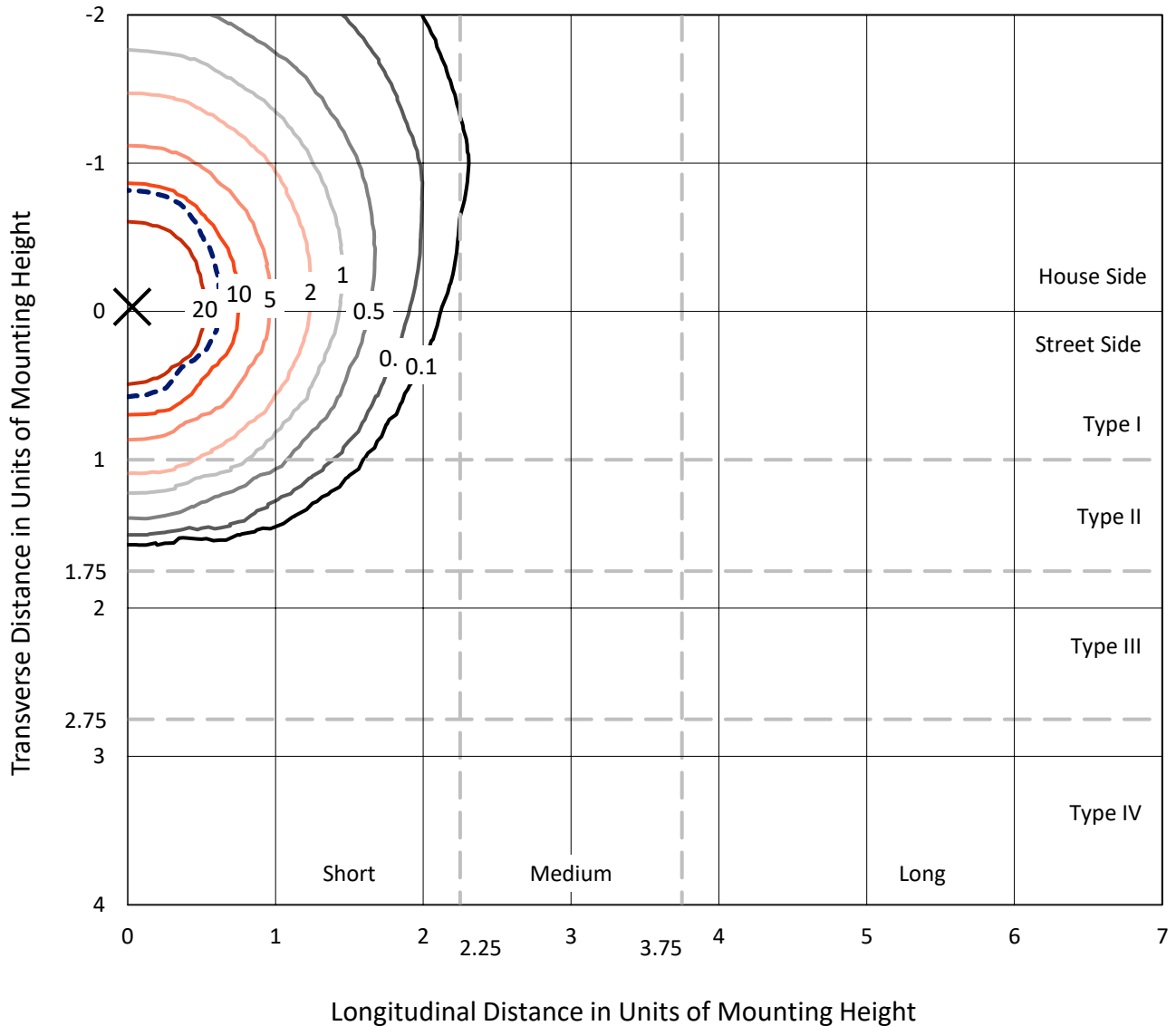
Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

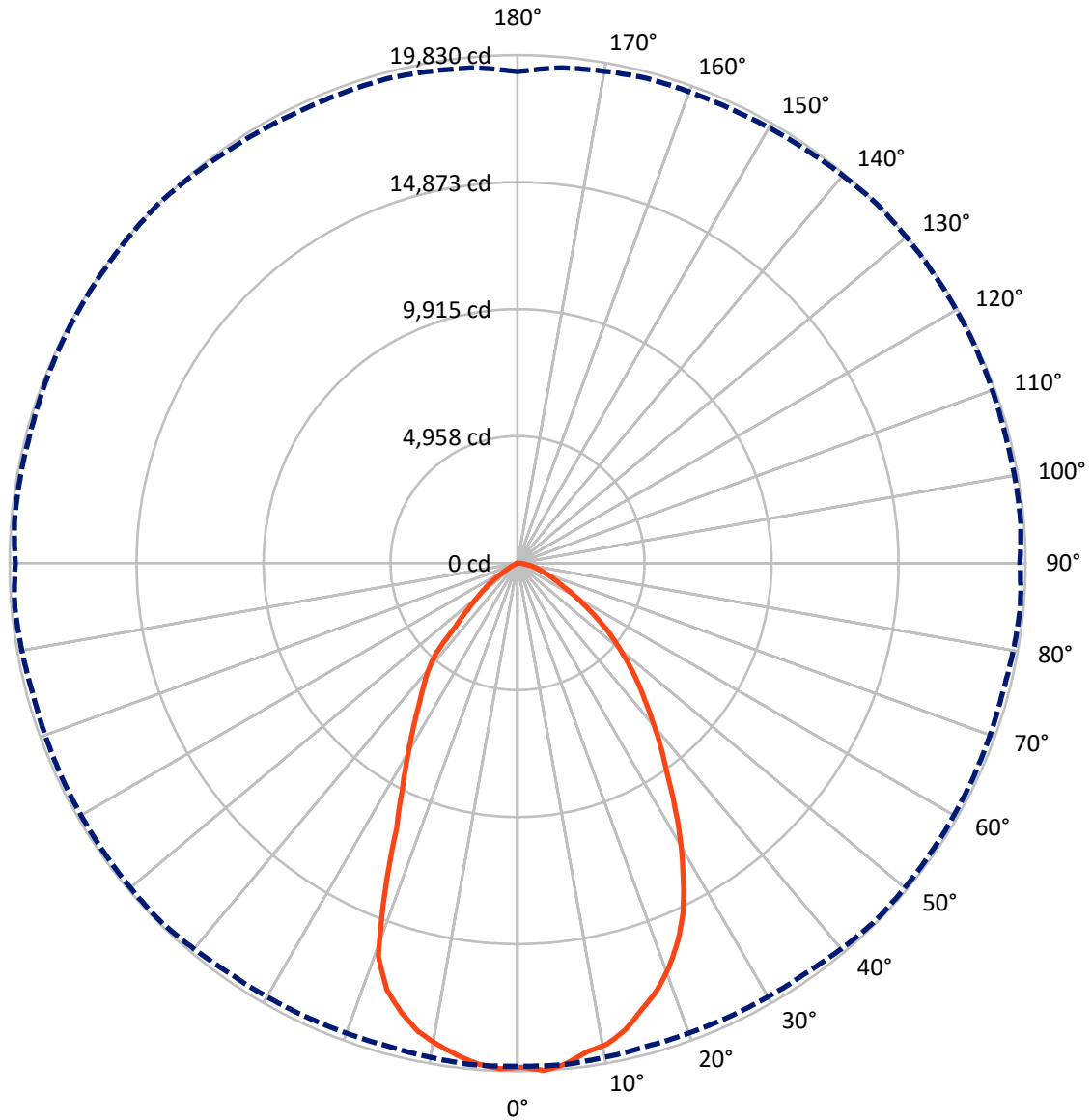
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 49.2 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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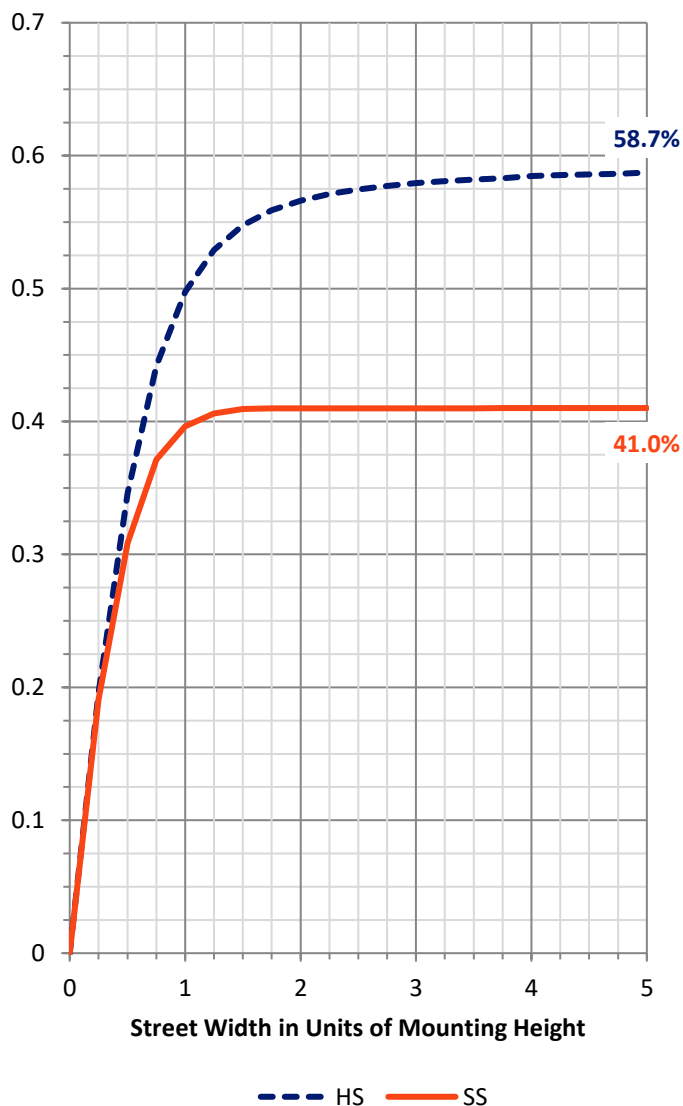
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15311.1	0.0	15311.1
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	10541.3	0.0	10541.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	25852.4	0.0	25852.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1845.1	7.1
10°-20°	4947.7	19.1
20°-30°	6034.0	23.3
30°-40°	5508.9	21.3
40°-50°	3981.2	15.4
50°-60°	2173.8	8.4
60°-70°	898.8	3.5
70°-80°	364.0	1.4
80°-90°	99.0	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°	25852.4	100.0
0°-180°	25852.4	100.0



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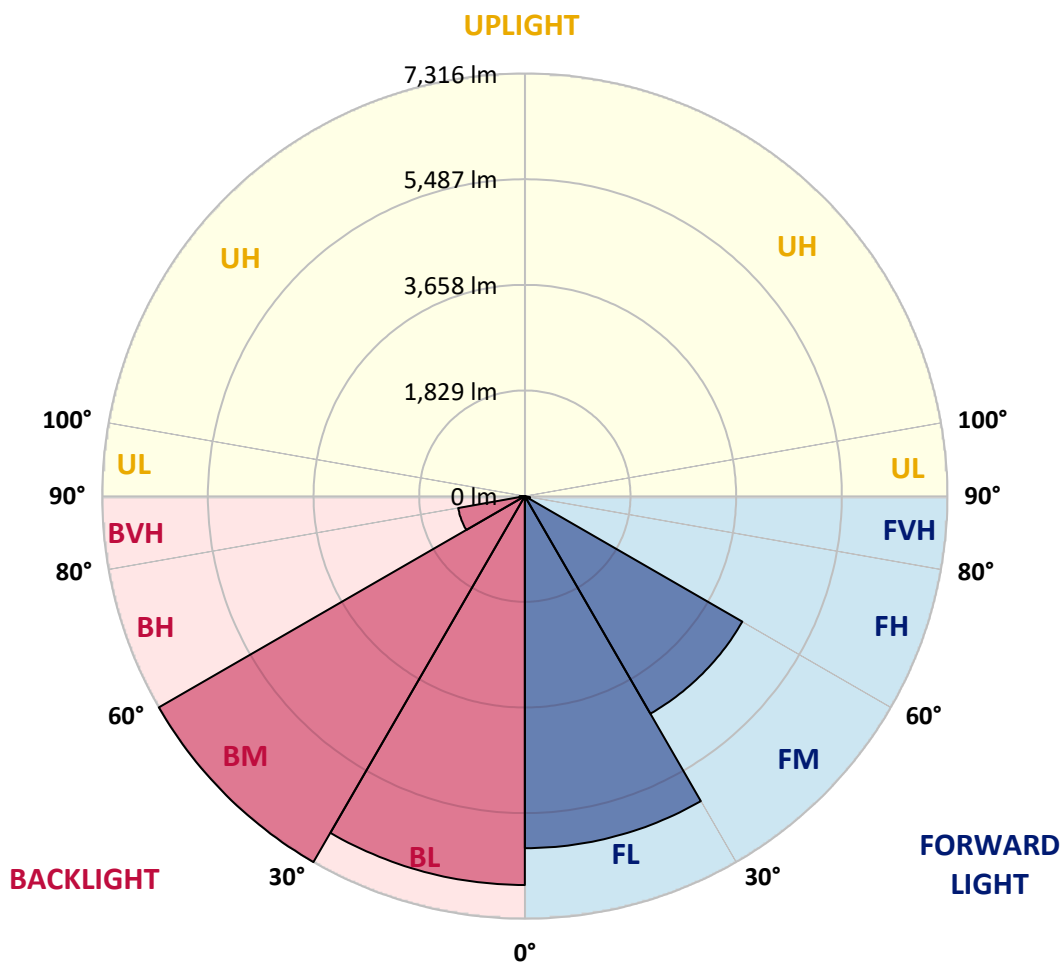
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6094.4	23.6			
FM (30°-60°)	4347.9	16.8			
FH (60°-80°)	91.1	0.4			G0/660
FVH (80°-90°)	7.9	0.0			G0/10
BL (0°-30°)	6732.3	26.0	B5		
BM (30°-60°)	7316.0	28.3	B4/8500		
BH (60°-80°)	1171.7	4.5	B3/2500		G3/2500
BVH (80°-90°)	91.1	0.4			G1/100
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°	19673.6	19673.6	19673.6	19673.6	19673.6	19673.6	19673.6	19673.6	19673.6	19673.6
2.5°	19637.2	19662.7	19524.3	19538.9	19564.4	19750.0	19702.7	19659.0	19597.1	19702.7
5°	19611.7	19626.3	19480.6	19429.7	19451.5	19619.0	19466.1	19466.1	19451.5	19433.3
7.5°	19415.1	19422.4	19309.5	19218.5	19276.8	19353.2	19240.4	19295.0	19214.9	19276.8
10°	19120.2	19072.9	18938.2	18912.7	18978.2	19051.0	18974.6	19025.6	18952.7	19000.1
12.5°	18687.0	18614.2	18505.0	18472.2	18585.1	18683.3	18621.5	18592.3	18497.7	18614.2
15°	17016.0	16961.4	17208.9	17642.1	18031.7	18115.4	18049.9	18079.0	17882.4	17915.2
17.5°	14005.2	13903.3	14169.1	15195.7	16659.2	17431.0	17372.7	17183.4	16892.2	16957.7
20°	12727.4	12698.3	12669.1	12913.1	13936.1	16276.9	16357.0	15876.5	15461.5	15370.4
22.5°	12006.6	11995.6	11966.5	12021.1	12290.5	13794.1	14711.5	14267.4	13990.7	13965.2
25°	11347.6	11329.4	11242.0	11311.2	11311.2	11398.6	12574.5	12843.9	12600.0	12570.8
27.5°	10677.8	10645.0	10630.4	10663.2	10495.7	9906.0	10204.5	11518.7	11391.3	11398.6
30°	9953.3	9942.4	9902.3	9971.5	9454.5	8722.8	8533.5	10317.3	10342.8	10335.5
32.5°	8875.7	8923.0	9105.0	9181.5	8329.6	7725.3	7408.5	8926.7	9447.3	9436.3
35°	6447.4	6447.4	7040.8	8143.9	7299.3	6844.3	6673.1	7568.7	8562.6	8599.0
37.5°	5300.7	5318.9	5435.4	5937.8	6298.2	6138.0	6087.0	6371.0	7426.7	7485.0
40°	4769.1	4769.1	4769.1	4561.6	4550.7	5530.0	5500.9	5409.9	6414.7	6542.1
42.5°	4284.9	4295.9	4303.1	3778.9	3487.7	4780.1	4714.5	4576.2	5508.2	5657.4
45°	3786.2	3804.4	3826.2	3160.0	3032.6	3440.3	3990.1	3837.1	4612.6	4805.5
47.5°	2311.8	2340.9	2836.0	2679.5	2694.0	2654.0	3254.7	3229.2	3782.5	4055.6
50°	1561.8	1572.7	1620.0	1700.1	2311.8	2086.0	2304.5	2672.2	2872.4	3287.4
52.5°	1310.6	1328.8	1212.3	1103.1	1518.1	1631.0	1609.1	1984.1	2064.2	2577.5
55°	921.1	979.3	924.7	913.8	862.8	1266.9	1219.6	1525.4	1576.4	1958.6
57.5°	94.7	109.2	189.3	680.8	564.3	717.2	870.1	1117.7	1168.6	1445.3
60°	7.3	7.3	18.2	94.7	411.4	429.6	600.7	688.1	786.4	1008.4
62.5°	0.0	3.6	7.3	14.6	65.5	229.4	302.2	360.4	473.3	651.7
65°	0.0	0.0	3.6	10.9	14.6	87.4	116.5	189.3	258.5	404.1
67.5°	0.0	0.0	3.6	7.3	10.9	21.8	40.0	69.2	138.3	229.4
70°	0.0	0.0	3.6	7.3	10.9	18.2	29.1	43.7	61.9	123.8
72.5°	0.0	0.0	3.6	3.6	7.3	18.2	21.8	29.1	43.7	61.9
75°	0.0	0.0	3.6	3.6	10.9	21.8	18.2	21.8	29.1	40.0
77.5°	0.0	0.0	3.6	7.3	10.9	21.8	18.2	21.8	21.8	25.5
80°	0.0	0.0	3.6	7.3	14.6	25.5	21.8	21.8	18.2	18.2
82.5°	0.0	0.0	3.6	10.9	14.6	32.8	32.8	29.1	14.6	10.9
85°	0.0	0.0	7.3	14.6	21.8	36.4	36.4	29.1	10.9	7.3
87.5°	0.0	0.0	7.3	10.9	18.2	25.5	36.4	29.1	10.9	3.6
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°
19673.6	0°	19673.6	19673.6	19673.6	19673.6	19673.6	19673.6	19673.6	19673.6	19673.6
19611.7	2.5°	19710.0	19688.1	19761.0	19790.1	19830.1	19677.2	19582.6	19586.2	19411.5
19389.6	5°	19506.1	19509.8	19604.4	19597.1	19637.2	19553.4	19517.0	19455.1	19302.2
19109.3	7.5°	19247.6	19214.9	19305.9	19375.1	19273.1	19331.4	19247.6	19276.8	19185.7
18861.7	10°	19047.4	18971.0	19054.7	19102.0	19105.7	19047.4	18967.3	18890.9	18858.1
18475.8	12.5°	18603.3	18505.0	18646.9	18712.5	18701.6	18588.7	18497.7	18515.9	18410.3
17798.7	15°	17991.6	17995.3	18097.2	18159.1	18100.9	18075.4	18082.7	18039.0	17948.0
16863.1	17.5°	17056.0	17110.6	17380.0	17529.3	17562.1	17511.1	17485.6	17434.6	17343.6
15370.4	20°	15497.9	15825.5	16306.1	16768.4	16859.4	16844.9	16753.9	16732.0	16681.0
13892.4	22.5°	14129.0	14372.9	14929.9	15650.8	16022.1	16058.5	15949.3	15916.5	15861.9
12570.8	25°	12712.8	12975.0	13477.3	14260.1	15028.2	15184.8	15166.6	15068.3	15010.0
11398.6	27.5°	11518.7	11780.8	12235.9	12942.2	13765.0	14267.4	14314.7	14158.1	14154.5
10353.7	30°	10441.1	10801.5	11147.4	11722.6	12519.9	13273.5	13353.6	13244.4	13255.3
9396.3	32.5°	9596.5	9895.0	10189.9	10575.8	11238.4	12115.8	12428.9	12326.9	12286.9
8599.0	35°	8733.7	8937.6	9239.7	9592.9	10044.3	10914.4	11456.8	11380.4	11340.3
7521.4	37.5°	7750.7	8100.2	8318.7	8715.5	9068.6	9760.3	10524.9	10513.9	10430.2
6604.0	40°	6742.3	7110.0	7441.3	7841.8	8114.8	8664.5	9512.8	9509.1	9520.1
5653.8	42.5°	5828.5	6167.1	6567.6	7004.4	7266.6	7667.0	8577.2	8628.1	8690.0
4871.1	45°	5002.1	5307.9	5679.3	6210.8	6527.5	6756.9	7565.1	7798.1	7794.4
4172.1	47.5°	4259.5	4547.1	4860.1	5377.1	5781.2	5988.7	6658.6	6989.9	6968.0
3422.1	50°	3575.0	3829.9	4157.5	4532.5	5074.9	5257.0	5755.7	6192.6	6159.8
2726.8	52.5°	2876.0	3229.2	3505.9	3848.1	4419.6	4598.0	4983.9	5409.9	5384.4
2046.0	55°	2242.6	2584.8	2919.7	3214.6	3695.2	3960.9	4237.6	4674.5	4667.2
1601.8	57.5°	1696.5	2071.5	2388.2	2668.5	3050.8	3378.4	3600.5	3997.3	4048.3
1095.8	60°	1256.0	1543.6	1885.8	2198.9	2501.1	2839.6	2988.9	3378.4	3400.3
750.0	62.5°	855.5	1172.3	1507.2	1791.2	2016.9	2366.4	2501.1	2821.4	2861.5
480.6	65°	593.4	797.3	1179.5	1383.4	1660.1	1958.6	2093.3	2348.2	2428.3
276.7	67.5°	393.2	567.9	921.1	1106.7	1379.8	1583.6	1754.7	1962.3	2049.6
174.7	70°	214.8	418.7	658.9	873.7	1110.4	1307.0	1474.4	1641.9	1718.3
80.1	72.5°	145.6	280.3	458.7	691.7	895.6	1088.5	1237.8	1361.6	1365.2
47.3	75°	72.8	189.3	349.5	535.2	699.0	888.3	1023.0	1095.8	1008.4
29.1	77.5°	43.7	138.3	284.0	429.6	567.9	717.2	793.6	833.7	691.7
21.8	80°	25.5	98.3	222.1	342.2	393.2	527.9	600.7	611.6	462.4
14.6	82.5°	18.2	72.8	174.7	251.2	240.3	371.3	451.4	436.9	294.9
10.9	85°	10.9	51.0	109.2	156.5	145.6	243.9	262.1	269.4	171.1
7.3	87.5°	7.3	29.1	58.2	83.7	69.2	105.6	105.6	127.4	83.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
19673.6
<i>19185.7</i>
19265.8
19032.8
18712.5
18319.3
17856.9
17303.6
16564.5
15847.4
14948.1
14147.2
13200.7
12290.5
11285.7
10499.4
9520.1
8657.2
7801.7
6975.3
6189.0
5439.0
4685.4
4026.5
3433.0
2868.8
2410.0
2038.7
1689.2
1332.4
942.9
666.2
433.2
273.0
156.5
72.8
0.0

(END OF REPORT)