

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: P638285

Luminaire Tested: **IFLD-S-SA6B-830-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638285  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-830-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (96) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20401.5 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G2

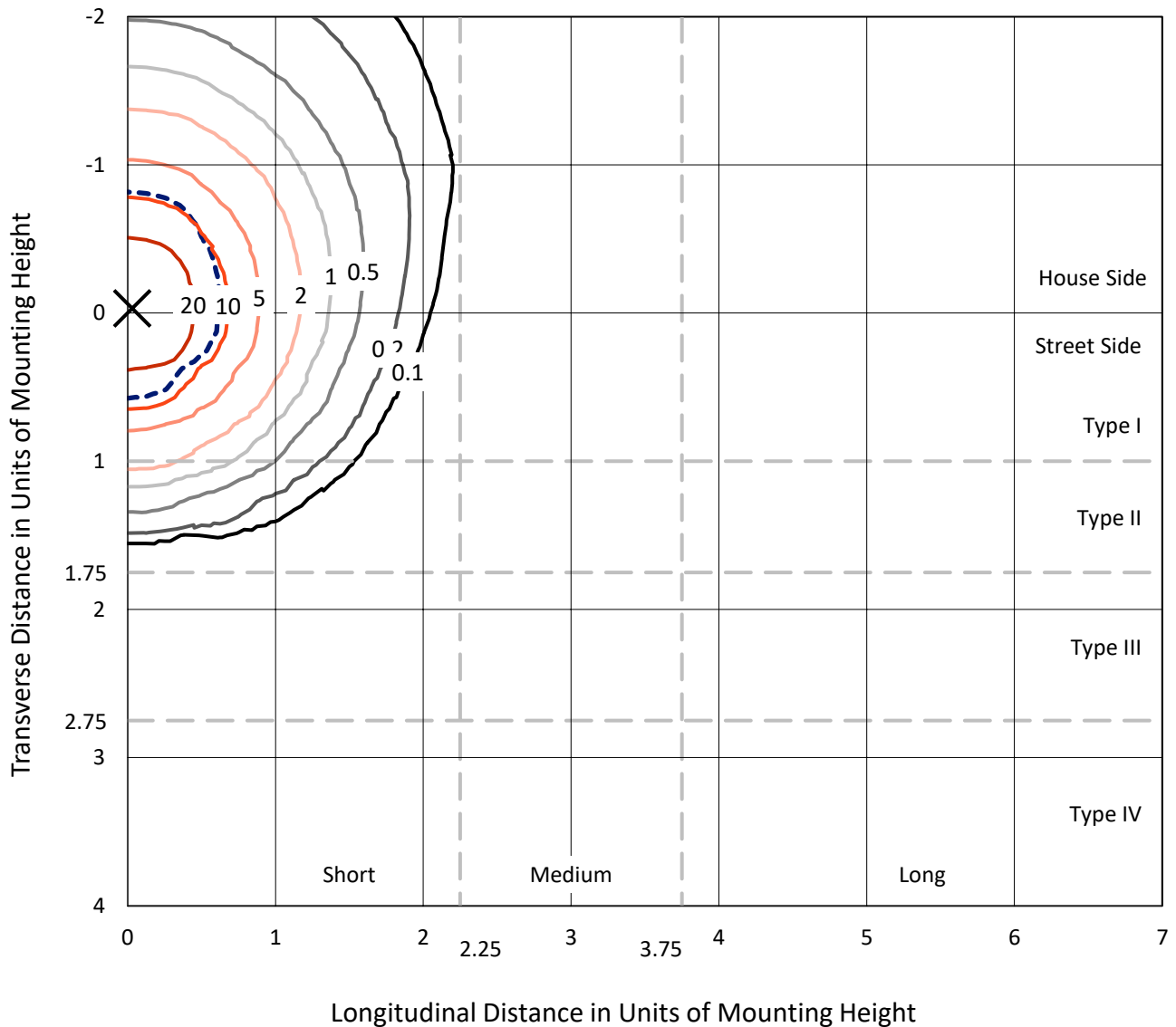
Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638285  
 CATALOG NUMBER: IFLD-S-SA6B-830-U-77-VI

### Iso-Footcandle Lines of Horizontal Illumination

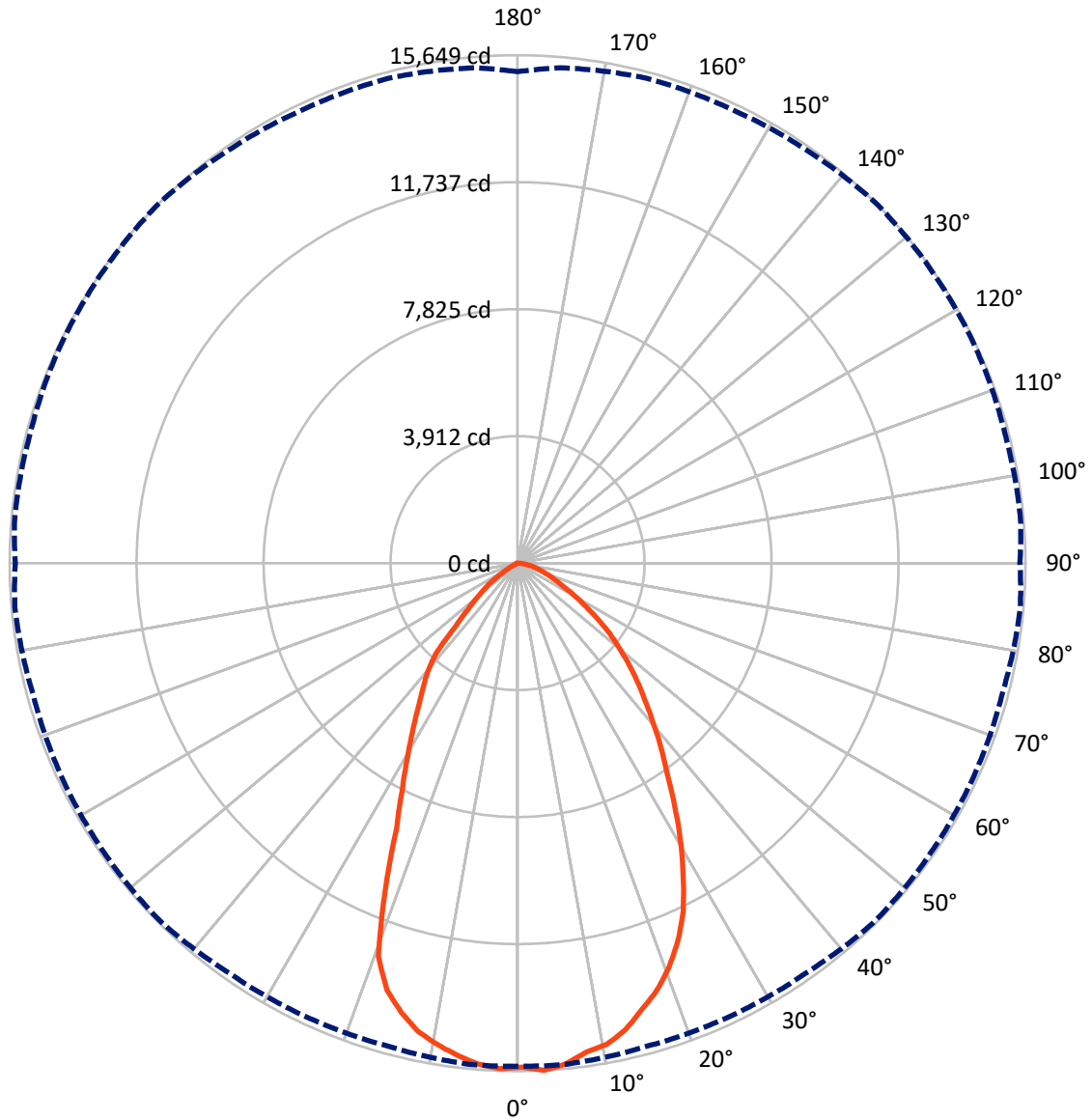
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 38.8 fc  
 Type I - Short - N/A

REPORT NUMBER: P638285  
CATALOG NUMBER: IFLD-S-SA6B-830-U-77-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638285

CATALOG NUMBER: IFLD-S-SA6B-830-U-77-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12082.8	0.0	12082.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	8318.7	0.0	8318.7
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	20401.5	0.0	20401.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1456.0	7.1
10°-20°	3904.5	19.1
20°-30°	4761.7	23.3
30°-40°	4347.4	21.3
40°-50°	3141.8	15.4
50°-60°	1715.4	8.4
60°-70°	709.3	3.5
70°-80°	287.3	1.4
80°-90°	78.1	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°	20401.5	100.0
0°-180°	20401.5	100.0



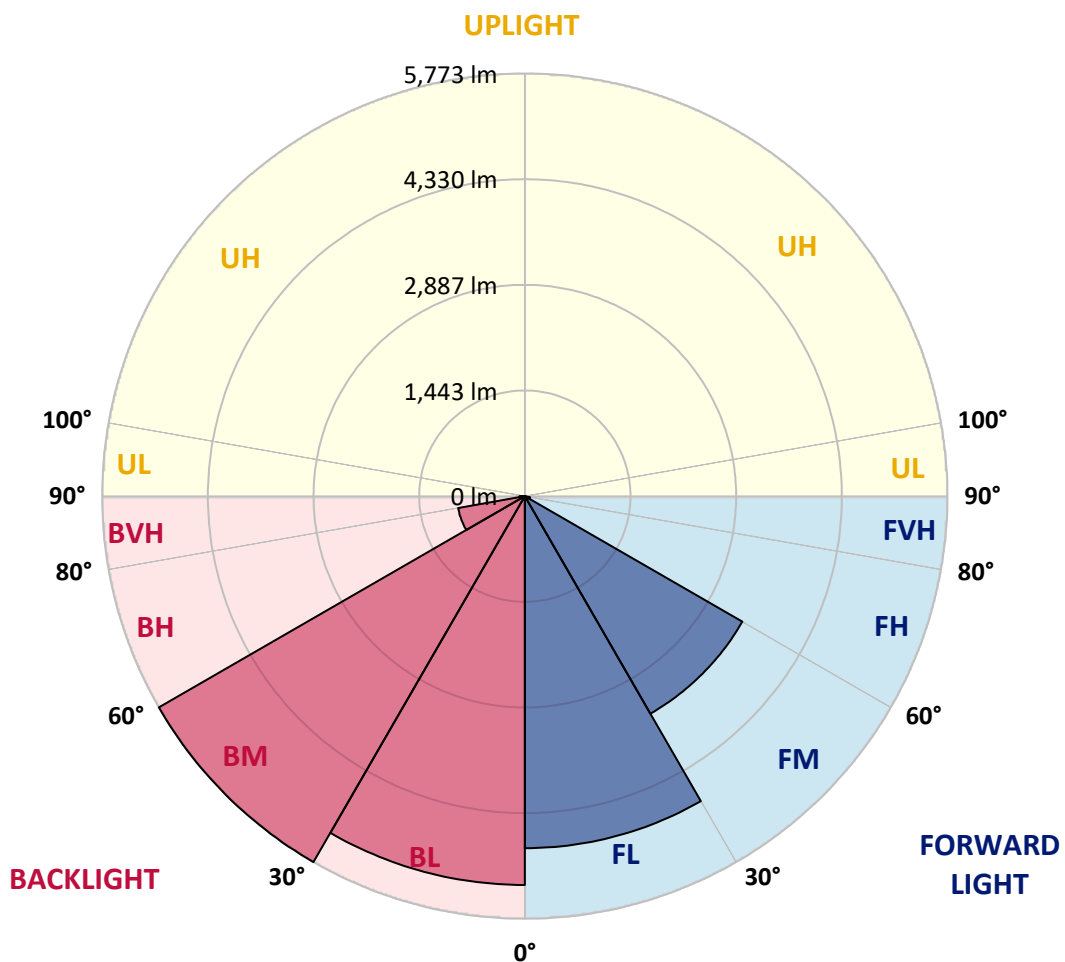
REPORT NUMBER: P638285  
 CATALOG NUMBER: IFLD-S-SA6B-830-U-77-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4809.4	23.6			
FM (30°-60°)	3431.1	16.8			
FH (60°-80°)	71.9	0.4			G0/660
FVH (80°-90°)	6.3	0.0			G0/10
BL (0°-30°)	5312.8	26.0	B5		
BM (30°-60°)	5773.4	28.3	B4/8500		
BH (60°-80°)	924.6	4.5	B2/1000		G2/1000
BVH (80°-90°)	71.9	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-G2**

Type I Short





REPORT NUMBER: P638285  
 CATALOG NUMBER: IFLD-S-SA6B-830-U-77-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	15525.4	15525.4	15525.4	15525.4	15525.4	15525.4	15525.4	15525.4	15525.4	15525.4
2.5°	15496.7	15516.8	15407.7	15419.1	15439.3	15585.8	15548.4	15513.9	15465.1	15548.4
5°	15476.6	15488.1	15373.2	15333.0	15350.2	15482.3	15361.7	15361.7	15350.2	15335.8
7.5°	15321.5	15327.2	15238.1	15166.3	15212.3	15272.6	15183.6	15226.7	15163.4	15212.3
10°	15088.8	15051.4	14945.1	14925.0	14976.7	15034.2	14973.8	15014.1	14956.6	14993.9
12.5°	14746.9	14689.4	14603.2	14577.4	14666.4	14744.0	14695.2	14672.2	14597.5	14689.4
15°	13428.2	13385.1	13580.5	13922.3	14229.7	14295.8	14244.1	14267.1	14111.9	14137.8
17.5°	11052.3	10971.8	11181.5	11991.7	13146.6	13755.7	13709.7	13560.3	13330.5	13382.2
20°	10043.8	10020.9	9997.9	10190.4	10997.7	12845.0	12908.2	12529.0	12201.4	12129.6
22.5°	9475.0	9466.4	9443.4	9486.5	9699.1	10885.6	11609.6	11259.1	11040.8	11020.7
25°	8955.0	8940.6	8871.7	8926.3	8926.3	8995.2	9923.2	10135.8	9943.3	9920.3
27.5°	8426.4	8400.5	8389.0	8414.9	8282.7	7817.3	8052.9	9090.0	8989.5	8995.2
30°	7854.7	7846.0	7814.4	7869.0	7461.1	6883.6	6734.2	8142.0	8162.1	8156.3
32.5°	7004.3	7041.6	7185.3	7245.6	6573.3	6096.4	5846.5	7044.5	7455.3	7446.7
35°	5088.0	5088.0	5556.3	6426.8	5760.3	5401.2	5266.1	5972.9	6757.2	6785.9
37.5°	4183.0	4197.4	4289.3	4685.8	4970.2	4843.8	4803.6	5027.7	5860.8	5906.8
40°	3763.6	3763.6	3763.6	3599.8	3591.2	4364.0	4341.0	4269.2	5062.1	5162.7
42.5°	3381.5	3390.1	3395.8	2982.1	2752.3	3772.2	3720.5	3611.3	4346.8	4464.6
45°	2987.9	3002.2	3019.5	2493.7	2393.2	2714.9	3148.8	3028.1	3640.0	3792.3
47.5°	1824.3	1847.3	2238.0	2114.5	2126.0	2094.4	2568.4	2548.3	2985.0	3200.5
50°	1232.5	1241.1	1278.5	1341.7	1824.3	1646.2	1818.6	2108.7	2266.8	2594.3
52.5°	1034.3	1048.6	956.7	870.5	1198.0	1287.1	1269.8	1565.8	1629.0	2034.1
55°	726.9	772.8	729.7	721.1	680.9	999.8	962.4	1203.8	1244.0	1545.6
57.5°	74.7	86.2	149.4	537.2	445.3	566.0	686.6	882.0	922.2	1140.6
60°	5.7	5.7	14.4	74.7	324.6	339.0	474.0	543.0	620.6	795.8
62.5°	0.0	2.9	5.7	11.5	51.7	181.0	238.5	284.4	373.5	514.3
65°	0.0	0.0	2.9	8.6	11.5	69.0	91.9	149.4	204.0	318.9
67.5°	0.0	0.0	2.9	5.7	8.6	17.2	31.6	54.6	109.2	181.0
70°	0.0	0.0	2.9	5.7	8.6	14.4	23.0	34.5	48.8	97.7
72.5°	0.0	0.0	2.9	2.9	5.7	14.4	17.2	23.0	34.5	48.8
75°	0.0	0.0	2.9	2.9	8.6	17.2	14.4	17.2	23.0	31.6
77.5°	0.0	0.0	2.9	5.7	8.6	17.2	14.4	17.2	17.2	20.1
80°	0.0	0.0	2.9	5.7	11.5	20.1	17.2	17.2	14.4	14.4
82.5°	0.0	0.0	2.9	8.6	11.5	25.9	25.9	23.0	11.5	8.6
85°	0.0	0.0	5.7	11.5	17.2	28.7	28.7	23.0	8.6	5.7
87.5°	0.0	0.0	5.7	8.6	14.4	20.1	28.7	23.0	8.6	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638285

CATALOG NUMBER: IFLD-S-SA6B-830-U-77-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
15525.4	0°	15525.4	15525.4	15525.4	15525.4	15525.4	15525.4	15525.4	15525.4	15525.4
15476.6	2.5°	15554.2	15536.9	15594.4	15617.4	15649.0	15528.3	15453.6	15456.5	15318.6
15301.4	5°	15393.3	15396.2	15470.9	15465.1	15496.7	15430.6	15401.9	15353.1	15232.4
15080.1	7.5°	15189.3	15163.4	15235.3	15289.9	15209.4	15255.4	15189.3	15212.3	15140.5
14884.8	10°	15031.3	14971.0	15037.0	15074.4	15077.3	15031.3	14968.1	14907.8	14881.9
14580.2	12.5°	14680.8	14603.2	14715.3	14767.0	14758.4	14669.3	14597.5	14611.8	14528.5
14045.9	15°	14198.1	14201.0	14281.5	14330.3	14284.3	14264.2	14270.0	14235.5	14163.7
13307.5	17.5°	13459.8	13502.9	13715.5	13833.3	13859.1	13818.9	13798.8	13758.6	13686.8
12129.6	20°	12230.2	12488.7	12868.0	13232.8	13304.6	13293.2	13221.3	13204.1	13163.9
10963.2	22.5°	11149.9	11342.4	11782.0	12350.8	12643.9	12672.6	12586.4	12560.6	12517.5
9920.3	25°	10032.4	10239.2	10635.7	11253.4	11859.6	11983.1	11968.7	11891.2	11845.2
8995.2	27.5°	9090.0	9296.9	9656.0	10213.4	10862.6	11259.1	11296.5	11172.9	11170.0
8170.7	30°	8239.6	8524.1	8797.0	9250.9	9880.1	10474.8	10538.0	10451.8	10460.4
7415.1	32.5°	7573.1	7808.7	8041.4	8345.9	8868.8	9561.2	9808.3	9727.8	9696.2
6785.9	35°	6892.2	7053.1	7291.6	7570.2	7926.5	8613.1	9041.2	8980.9	8949.3
5935.5	37.5°	6116.5	6392.3	6564.7	6877.9	7156.5	7702.4	8305.7	8297.1	8231.0
5211.5	40°	5320.7	5610.9	5872.3	6188.3	6403.8	6837.6	7507.0	7504.2	7512.8
4461.7	42.5°	4599.6	4866.8	5182.8	5527.6	5734.4	6050.4	6768.7	6808.9	6857.7
3844.0	45°	3947.4	4188.8	4481.8	4901.3	5151.2	5332.2	5970.0	6153.9	6151.0
3292.4	47.5°	3361.4	3588.3	3835.4	4243.4	4562.3	4726.0	5254.6	5516.1	5498.8
2700.6	50°	2821.2	3022.3	3280.9	3576.8	4004.9	4148.5	4542.1	4886.9	4861.0
2151.8	52.5°	2269.6	2548.3	2766.7	3036.7	3487.8	3628.5	3933.1	4269.2	4249.1
1614.6	55°	1769.7	2039.8	2304.1	2536.8	2916.0	3125.8	3344.1	3688.9	3683.1
1264.1	57.5°	1338.8	1634.7	1884.7	2105.9	2407.5	2666.1	2841.4	3154.5	3194.7
864.8	60°	991.2	1218.1	1488.2	1735.3	1973.7	2240.9	2358.7	2666.1	2683.3
591.8	62.5°	675.1	925.1	1189.4	1413.5	1591.6	1867.4	1973.7	2226.5	2258.1
379.2	65°	468.3	629.2	930.8	1091.7	1310.1	1545.6	1651.9	1853.1	1916.3
218.3	67.5°	310.3	448.2	726.9	873.4	1088.8	1249.7	1384.8	1548.5	1617.5
137.9	70°	169.5	330.4	520.0	689.5	876.3	1031.4	1163.5	1295.7	1356.0
63.2	72.5°	114.9	221.2	362.0	545.9	706.7	859.0	976.8	1074.5	1077.4
37.3	75°	57.5	149.4	275.8	422.3	551.6	701.0	807.3	864.8	795.8
23.0	77.5°	34.5	109.2	224.1	339.0	448.2	566.0	626.3	657.9	545.9
17.2	80°	20.1	77.6	175.3	270.1	310.3	416.6	474.0	482.7	364.9
11.5	82.5°	14.4	57.5	137.9	198.2	189.6	293.0	356.2	344.8	232.7
8.6	85°	8.6	40.2	86.2	123.5	114.9	192.5	206.9	212.6	135.0
5.7	87.5°	5.7	23.0	46.0	66.1	54.6	83.3	83.3	100.6	66.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
15525.4  
*15140.5*  
15203.7  
15019.8  
14767.0  
14456.7  
14091.8  
13655.1  
13071.9  
12506.0  
11796.3  
11164.3  
10417.3  
9699.1  
8906.2  
8285.6  
7512.8  
6831.9  
6156.7  
5504.6  
4884.0  
4292.2  
3697.5  
3177.5  
2709.2  
2263.9  
1901.9  
1608.9  
1333.1  
1051.5  
744.1  
525.8  
341.9  
215.5  
123.5  
57.5  
0.0

(END OF REPORT)