

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: P637479

Luminaire Tested: **IFLD-M-SA4C-827-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637479  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-827-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20157.8 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

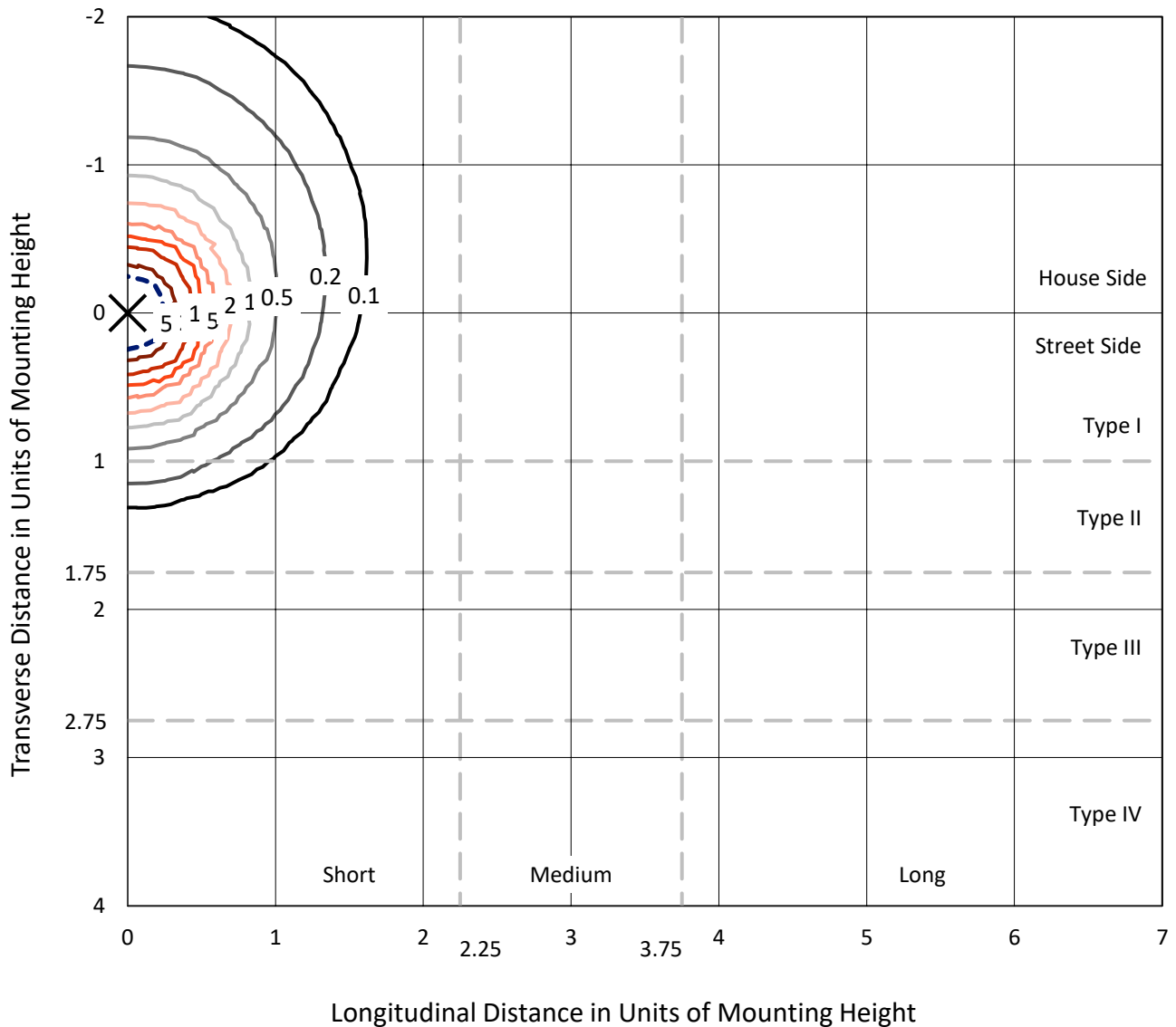
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

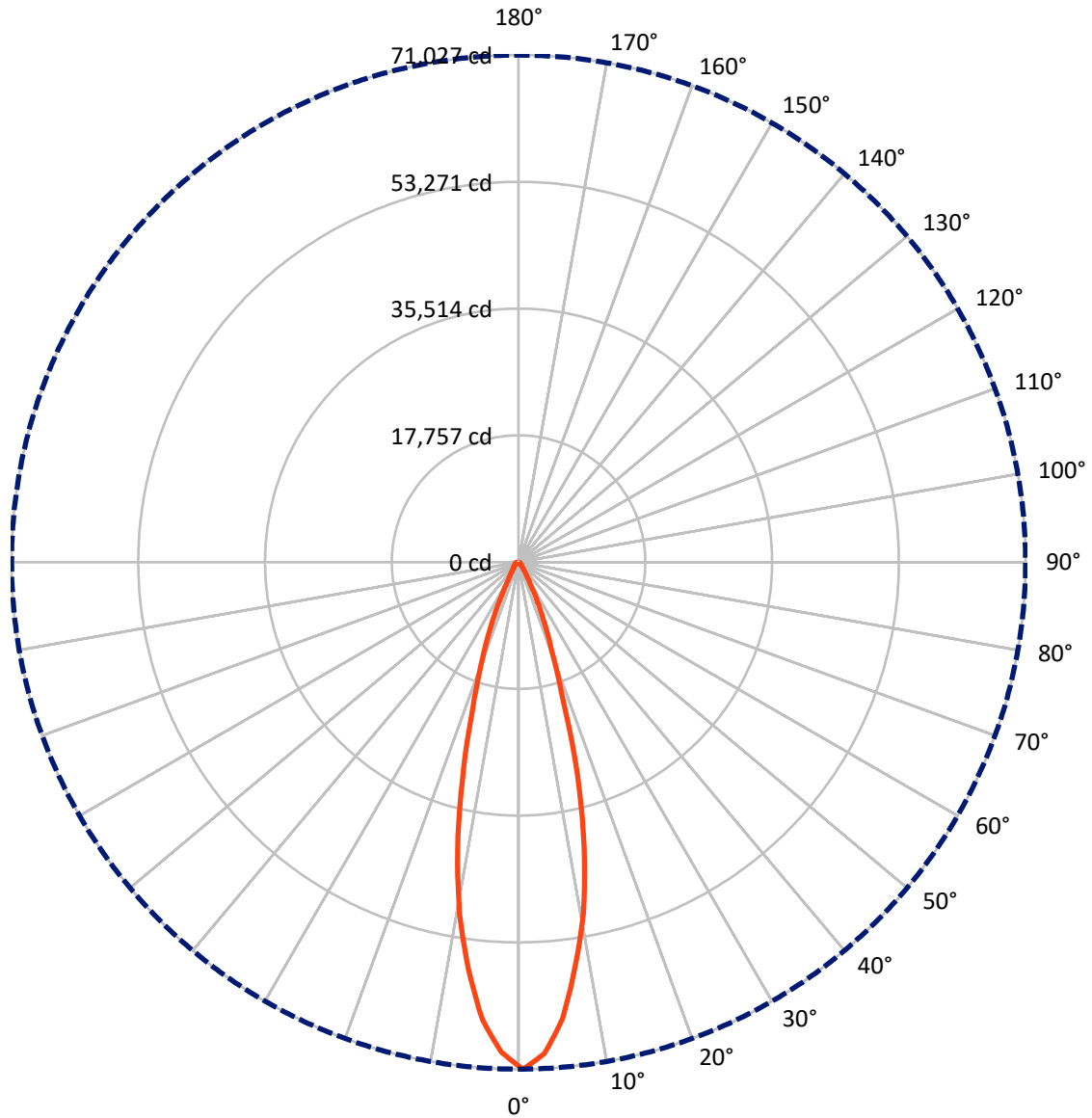
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 177.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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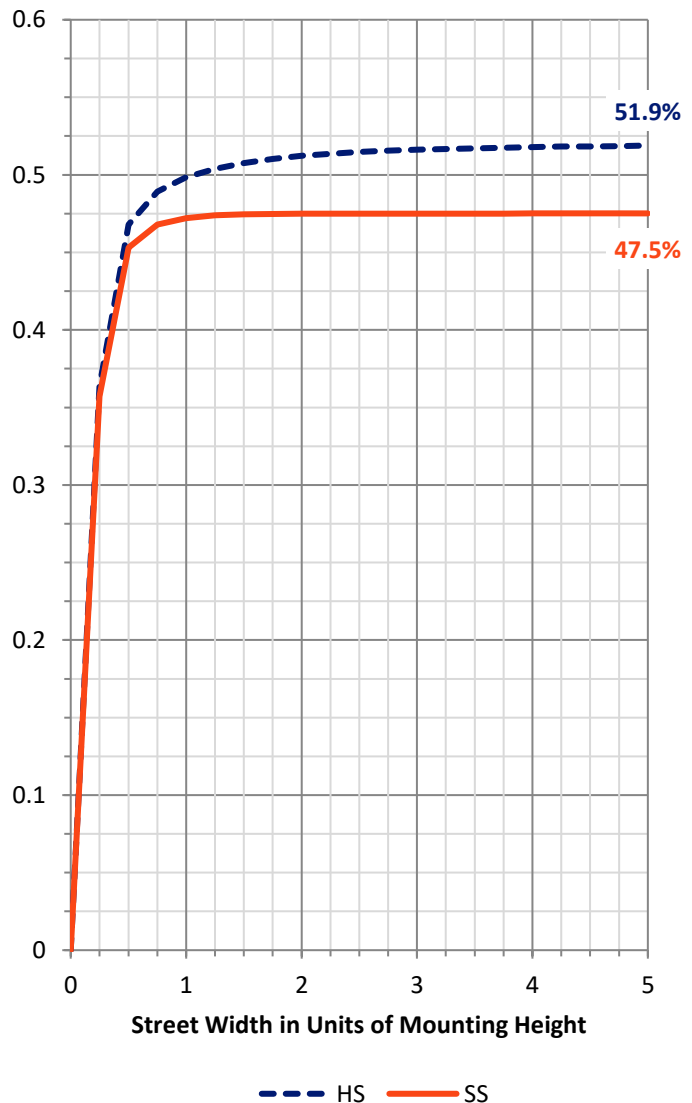
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10628.6	0.0	10628.6
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	9529.3	0.0	9529.3
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	20157.8	0.0	20157.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5732.5	28.4
10°-20°	8681.9	43.1
20°-30°	3663.8	18.2
30°-40°	955.6	4.7
40°-50°	483.3	2.4
50°-60°	315.9	1.6
60°-70°	189.3	0.9
70°-80°	99.6	0.5
80°-90°	36.0	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°	20157.8	100.0
0°-180°	20157.8	100.0



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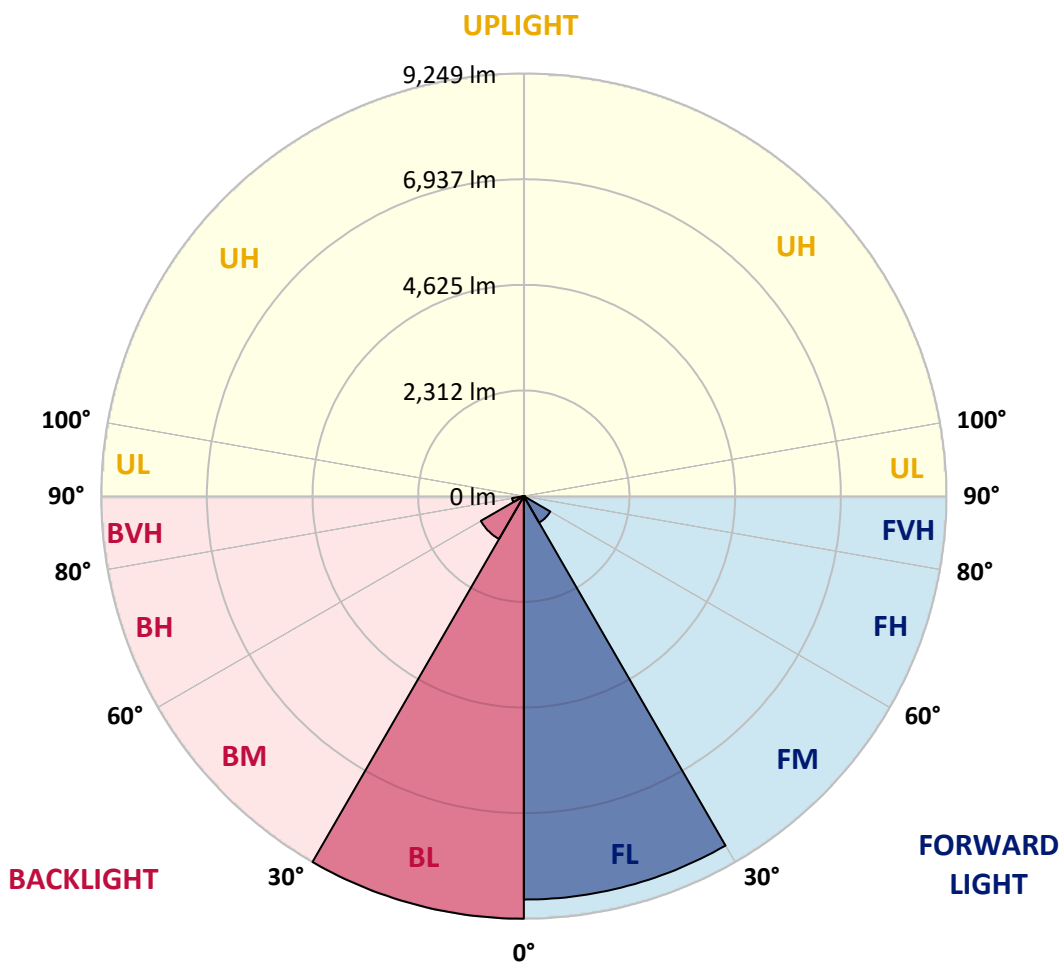
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8829.0	43.8			
FM (30°-60°)	668.6	3.3			
FH (60°-80°)	27.3	0.1			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	9249.3	45.9	B5		
BM (30°-60°)	1086.1	5.4	B2/2500		
BH (60°-80°)	261.6	1.3	B1/500		G0/660
BVH (80°-90°)	31.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	71027.4	71027.4	71027.4	71027.4	71027.4	71027.4	71027.4	71027.4	71027.4	71027.4
2.5°	68958.4	68996.9	68854.2	69162.1	68922.2	69565.1	69245.9	69743.9	69576.4	69854.8
5°	64249.8	64186.4	64145.6	64623.3	64485.2	65175.6	64734.2	64589.3	65037.6	64956.1
7.5°	57139.3	57306.8	57211.8	57336.3	57406.5	58194.2	58443.2	58248.6	58255.4	58368.5
10°	49850.1	49603.3	49252.4	49485.6	49979.1	50323.2	50185.1	50470.3	50406.9	50676.3
12.5°	40881.1	41075.8	40878.8	40670.5	41533.0	41438.0	41677.9	41834.1	41442.5	42314.0
15°	30793.8	30895.7	31135.6	31119.8	31783.1	31916.6	31884.9	32050.2	31744.6	31889.5
17.5°	19782.9	20127.0	20772.2	21863.3	23090.3	23232.9	23196.7	23060.8	22913.7	22750.7
20°	13288.2	13252.0	13485.2	13804.4	16344.3	17016.6	16996.2	16570.7	15954.9	15837.2
22.5°	9308.5	9376.5	9344.8	9661.7	10186.9	12040.9	11812.3	11379.9	11178.4	11047.1
25°	6123.4	6098.5	6257.0	6352.1	6802.6	7028.9	7830.3	7669.6	7359.5	7393.4
27.5°	3732.9	3764.6	3823.5	3905.0	4224.2	4151.7	4609.0	4670.1	4570.5	4464.1
30°	2290.9	2313.6	2361.1	2419.9	2530.9	2451.6	2578.4	2798.0	2761.8	2687.1
32.5°	1555.2	1557.5	1591.4	1614.1	1600.5	1525.8	1566.5	1774.8	1779.3	1772.5
35°	1118.3	1118.3	1150.0	1168.1	1129.6	1068.5	1075.3	1204.3	1260.9	1272.2
37.5°	771.9	774.2	828.5	882.9	839.9	824.0	796.8	882.9	973.4	987.0
40°	586.3	584.0	611.2	652.0	656.5	627.1	636.1	690.4	783.3	794.6
42.5°	475.4	477.7	491.2	486.7	489.0	527.5	541.0	565.9	652.0	672.3
45°	400.7	402.9	409.7	387.1	378.0	436.9	455.0	468.6	541.0	565.9
47.5°	330.5	335.0	341.8	316.9	312.4	350.9	382.6	396.2	459.5	486.7
50°	237.7	242.2	267.1	253.5	267.1	276.2	319.2	339.6	382.6	418.8
52.5°	172.0	176.6	183.4	185.6	219.6	224.1	255.8	287.5	307.9	348.6
55°	135.8	140.4	135.8	131.3	160.7	185.6	196.9	230.9	246.7	294.3
57.5°	77.0	81.5	88.3	101.9	106.4	142.6	153.9	183.4	196.9	242.2
60°	13.6	15.8	24.9	61.1	74.7	90.6	115.5	140.4	158.5	190.2
62.5°	2.3	2.3	4.5	13.6	43.0	63.4	83.8	99.6	115.5	144.9
65°	0.0	0.0	2.3	4.5	11.3	36.2	45.3	58.9	79.2	104.1
67.5°	0.0	0.0	2.3	4.5	6.8	13.6	20.4	36.2	45.3	70.2
70°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	15.8	27.2	43.0
72.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	13.6	13.6	27.2
75°	0.0	0.0	2.3	4.5	6.8	11.3	13.6	13.6	11.3	11.3
77.5°	0.0	0.0	2.3	4.5	9.1	13.6	15.8	13.6	9.1	9.1
80°	0.0	0.0	4.5	6.8	11.3	15.8	20.4	15.8	9.1	4.5
82.5°	0.0	0.0	4.5	9.1	11.3	18.1	24.9	20.4	9.1	4.5
85°	0.0	0.0	2.3	6.8	13.6	18.1	24.9	18.1	9.1	2.3
87.5°	0.0	0.0	2.3	2.3	4.5	6.8	13.6	11.3	4.5	2.3
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°
71027.4	0°	71027.4	71027.4	71027.4	71027.4	71027.4	71027.4	71027.4	71027.4	71027.4
69327.4	2.5°	69725.8	70088.0	70162.7	70063.1	70208.0	69947.6	69748.4	69232.3	68922.2
64931.2	5°	65350.0	65295.6	65673.7	65798.2	65782.3	65583.1	65304.7	64992.3	64688.9
58149.0	7.5°	58511.2	58581.3	58925.4	59145.0	59034.1	58785.1	58592.7	58357.2	58153.5
50773.7	10°	51237.7	50755.6	51183.4	51183.4	51480.0	50775.9	50841.6	50248.5	50275.6
42298.2	12.5°	42443.1	42617.4	42687.5	42889.0	42542.7	42169.1	41711.9	41621.3	41338.3
31613.3	15°	32068.3	32566.3	32138.5	32869.7	32516.5	32127.1	32057.0	31355.2	31577.1
22929.5	17.5°	22816.3	23366.4	23538.5	23957.3	23635.8	23404.9	23112.9	22900.1	22884.3
16052.3	20°	16179.0	16731.4	16858.2	17360.7	17324.5	17252.0	17005.3	16735.9	16443.9
10927.1	22.5°	11092.4	11542.9	11963.9	12640.8	12629.5	12416.7	12391.8	12011.5	12018.3
7382.1	25°	7459.1	7787.3	7886.9	8579.6	8656.6	8633.9	8504.9	8151.8	8285.3
4509.4	27.5°	4513.9	4801.4	5138.7	5383.2	5614.1	5577.9	5448.8	5251.9	5165.9
2709.7	30°	2782.1	2911.2	3035.7	3330.0	3468.1	3540.5	3479.4	3296.0	3309.6
1783.8	32.5°	1822.3	1931.0	2021.5	2207.2	2279.6	2413.2	2388.3	2349.8	2304.5
1283.5	35°	1328.8	1408.1	1469.2	1555.2	1648.0	1761.2	1779.3	1763.5	1745.4
991.5	37.5°	1014.2	1095.7	1165.8	1202.1	1274.5	1362.8	1412.6	1410.3	1396.7
808.2	40°	824.0	885.1	948.5	996.1	1045.9	1111.5	1172.6	1179.4	1179.4
679.1	42.5°	688.2	740.2	803.6	853.4	889.7	950.8	1014.2	1018.7	1014.2
575.0	45°	588.6	633.9	695.0	753.8	783.3	828.5	889.7	903.2	894.2
493.5	47.5°	511.6	552.4	604.4	667.8	699.5	740.2	796.8	812.7	810.4
425.6	50°	439.2	486.7	538.8	590.8	631.6	670.1	724.4	742.5	735.7
362.2	52.5°	387.1	430.1	475.4	532.0	579.5	613.5	656.5	688.2	679.1
305.6	55°	323.7	375.8	423.3	470.9	529.7	565.9	606.7	645.2	636.1
258.1	57.5°	280.7	323.7	378.0	421.1	479.9	522.9	563.7	604.4	602.2
210.5	60°	235.4	280.7	332.8	378.0	432.4	479.9	520.7	565.9	570.5
158.5	62.5°	185.6	240.0	285.2	337.3	391.6	443.7	479.9	525.2	532.0
120.0	65°	140.4	196.9	246.7	296.6	350.9	407.5	439.2	477.7	484.4
88.3	67.5°	104.1	151.7	210.5	255.8	312.4	366.7	396.2	427.8	439.2
54.3	70°	79.2	115.5	176.6	219.6	278.4	321.5	353.1	380.3	389.4
36.2	72.5°	49.8	90.6	142.6	187.9	240.0	278.4	301.1	316.9	330.5
20.4	75°	34.0	70.2	115.5	160.7	199.2	228.6	249.0	262.6	273.9
9.1	77.5°	20.4	54.3	95.1	133.6	158.5	181.1	201.5	210.5	217.3
6.8	80°	11.3	40.7	79.2	108.7	124.5	140.4	156.2	167.5	172.0
4.5	82.5°	6.8	31.7	63.4	83.8	90.6	106.4	122.2	129.0	129.0
2.3	85°	4.5	22.6	43.0	61.1	65.6	77.0	81.5	86.0	90.6
2.3	87.5°	4.5	13.6	27.2	34.0	36.2	40.7	43.0	47.5	52.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
71027.4  
68693.5  
64349.4  
57463.0  
50010.8  
41080.3  
31355.2  
22463.2  
16317.1  
11887.0  
8074.8  
5091.2  
3250.7  
2288.7  
1738.6  
1389.9  
1165.8  
1009.6  
894.2  
805.9  
731.2  
676.9  
640.6  
604.4  
572.7  
536.5  
491.2  
443.7  
393.9  
328.2  
271.7  
215.1  
167.5  
126.8  
88.3  
49.8  
0.0

(END OF REPORT)