

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: P637238

Luminaire Tested: **IFLD-S-SA3D-830-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637238  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-830-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18417.5 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

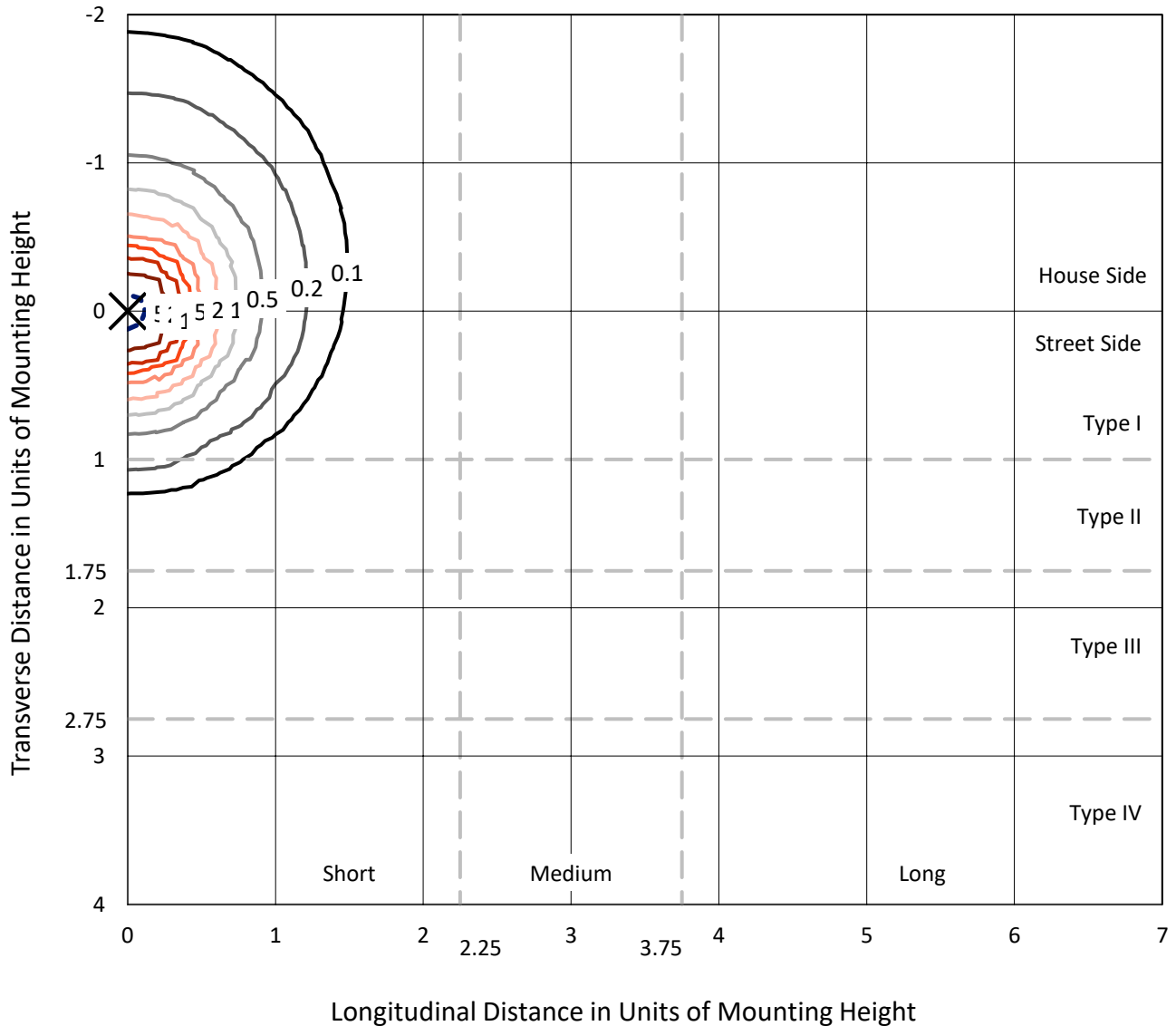
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

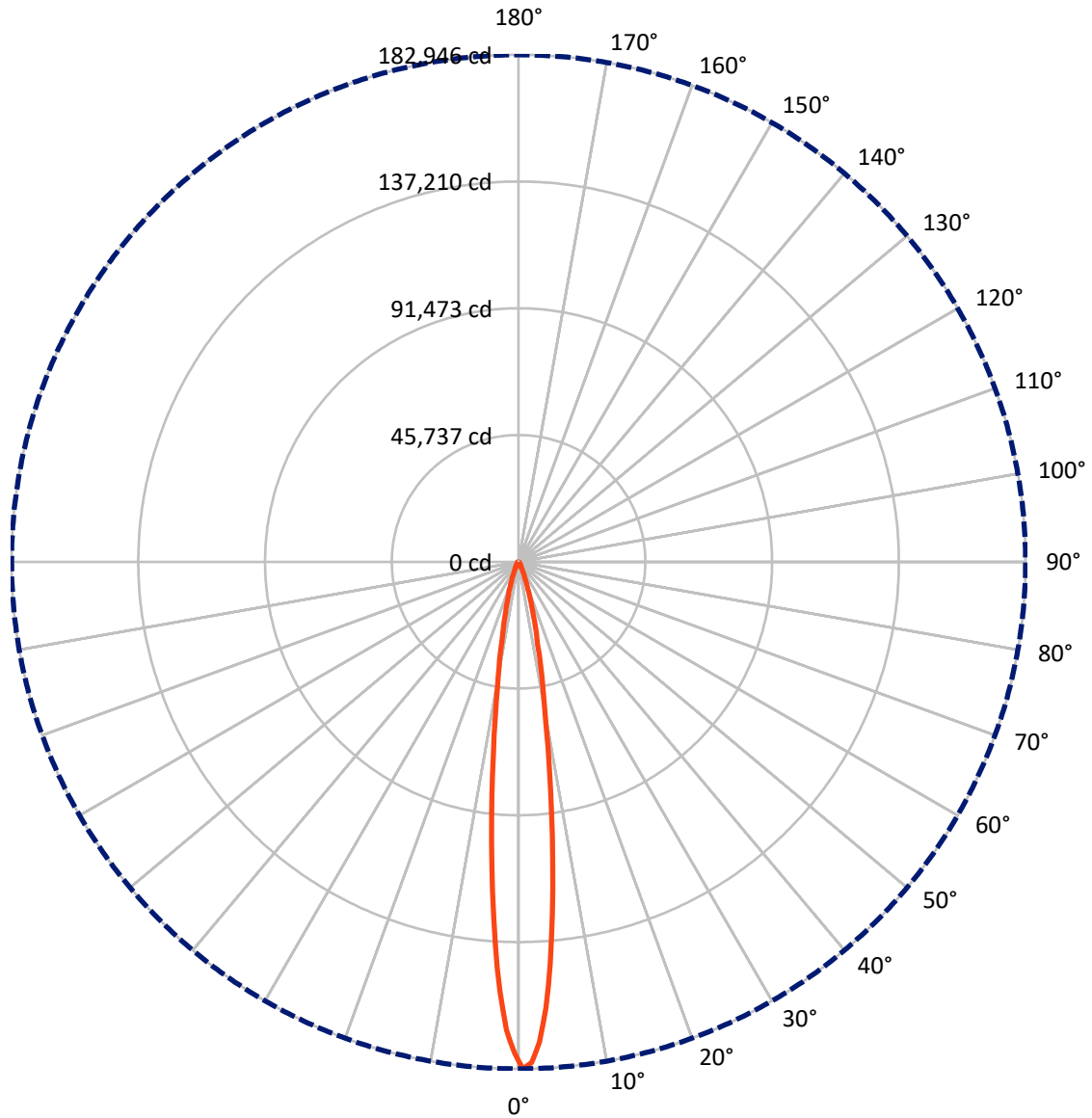
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 457.4 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	9433.1	0.0	9433.1
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	8984.4	0.0	8984.4
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	18417.5	0.0	18417.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9297.7	50.5
10°-20°	5952.4	32.3
20°-30°	1789.2	9.7
30°-40°	582.6	3.2
40°-50°	338.9	1.8
50°-60°	225.1	1.2
60°-70°	135.5	0.7
70°-80°	69.6	0.4
80°-90°	26.5	0.1
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°	18417.5	100.0
0°-180°	18417.5	100.0

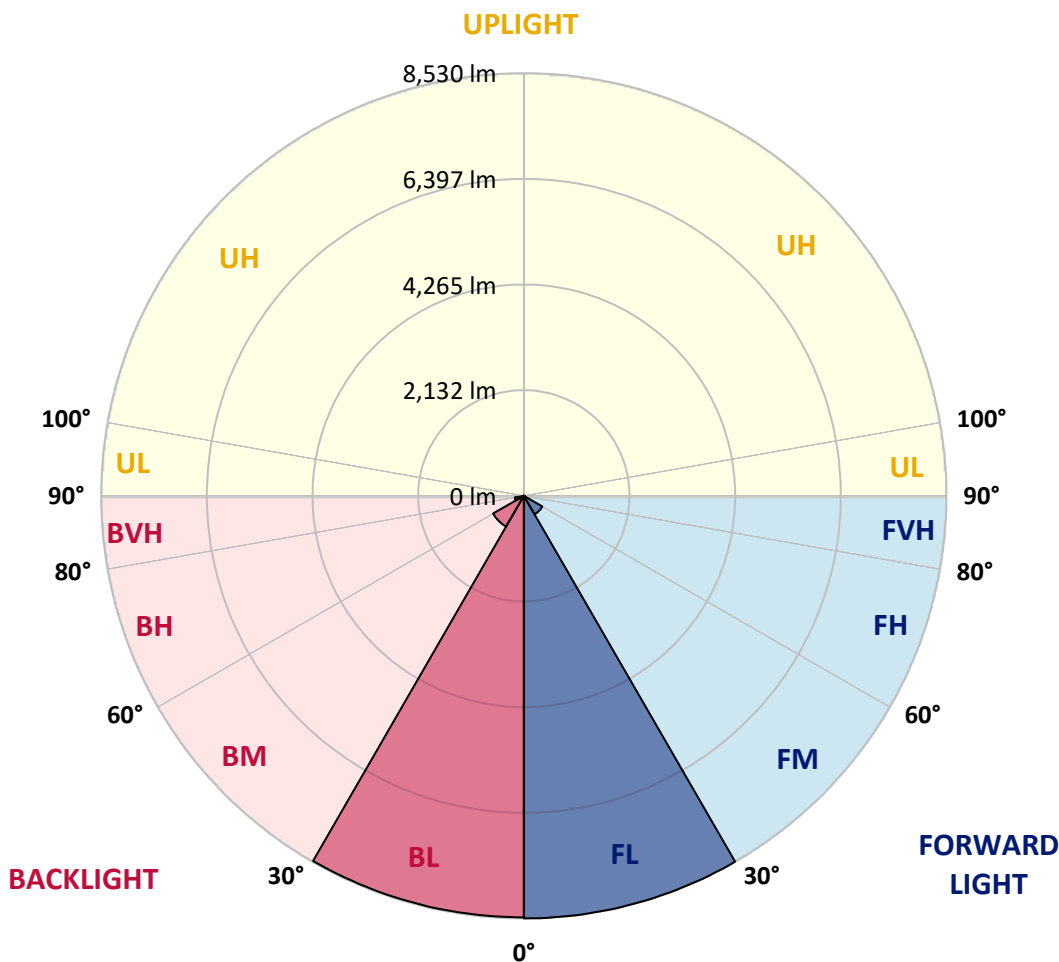


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8529.7	46.3			
FM (30°-60°)	430.4	2.3			
FH (60°-80°)	20.2	0.1			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	8509.5	46.2	B5		
BM (30°-60°)	716.2	3.9	B1/1000		
BH (60°-80°)	184.9	1.0	B1/500		G0/660
BVH (80°-90°)	22.5	0.1			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°	182946.0	182946.0	182946.0	182946.0	182946.0	182946.0	182946.0	182946.0	182946.0	182946.0
1°	180755.5	180203.9	178779.6	179792.6	180683.3	180424.5	180406.5	180310.2	180175.8	181230.9
2°	173530.0	173173.0	171066.7	171935.3	173201.0	172278.3	172856.0	172348.5	172358.5	173618.3
3°	161349.8	161544.4	158184.4	159763.1	161522.3	159285.7	159979.7	161283.6	159917.5	159506.3
4°	145518.7	143829.7	141994.2	143599.0	144054.4	142752.5	144032.3	145629.1	143731.4	143815.7
5°	127445.0	126197.3	124024.8	125015.8	123886.4	124297.6	126215.3	126873.3	125549.3	123882.4
6°	108861.7	107975.1	105259.0	106687.3	106286.1	106053.4	108474.6	106468.6	107190.7	106181.7
7°	90551.3	88894.3	87560.4	88928.4	89016.7	88316.6	91460.0	91094.9	89781.0	89476.1
8°	75023.1	73370.2	72240.8	73259.8	73925.8	72826.6	74305.0	75275.8	74248.8	74341.1
9°	60509.9	60219.1	58648.4	59980.4	60704.5	59527.0	61163.9	61514.9	60554.1	61021.5
10°	49683.7	49344.7	48091.0	48630.6	49830.2	48426.0	49996.7	50111.0	49344.7	49563.4
12.5°	30703.3	30566.9	30532.8	30611.0	30595.0	30843.7	31244.9	30787.6	30727.4	29971.1
15°	19845.0	20047.6	19839.0	20240.2	20298.4	20533.1	20288.3	19919.2	19215.1	18866.1
17.5°	12384.8	12643.6	13000.7	13588.4	14176.2	14244.4	13919.4	13486.1	13145.1	12772.0
20°	7125.2	7251.6	7197.4	7901.5	9422.0	9835.2	9416.0	8960.6	8549.4	8172.3
22.5°	4427.2	4381.0	4465.3	4702.0	5197.5	6475.3	6132.2	5676.9	5378.0	5067.1
25°	2714.1	2764.2	2732.1	2862.5	3085.2	3626.8	3705.0	3508.4	3356.0	3195.5
27.5°	1747.2	1747.2	1761.2	1833.5	1985.9	1967.9	2385.1	2232.6	2150.4	2072.2
30°	1213.6	1217.6	1217.6	1259.7	1293.8	1233.7	1342.0	1538.6	1500.5	1440.3
32.5°	900.7	912.7	922.7	944.8	916.7	852.5	878.6	1107.3	1085.2	1063.2
35°	686.0	696.1	720.1	732.2	692.1	651.9	627.9	814.4	824.5	818.4
37.5°	499.5	505.5	549.6	595.8	549.6	513.5	499.5	625.9	674.0	668.0
40°	383.1	385.1	393.2	445.3	445.3	417.2	421.3	467.4	551.6	551.6
42.5°	329.0	329.0	337.0	329.0	331.0	361.1	371.1	377.1	467.4	467.4
45°	284.8	284.8	288.9	268.8	248.7	310.9	318.9	321.0	393.2	403.2
47.5°	238.7	238.7	246.7	220.7	210.6	246.7	268.8	274.8	339.0	347.0
50°	176.5	178.5	202.6	180.5	186.6	190.6	232.7	236.7	286.9	304.9
52.5°	118.4	118.4	122.4	140.4	162.5	156.5	188.6	202.6	228.7	252.8
55°	96.3	96.3	94.3	90.3	120.4	130.4	138.4	168.5	186.6	216.6
57.5°	66.2	70.2	64.2	74.2	78.2	98.3	104.3	132.4	142.4	182.5
60°	8.0	10.0	14.0	54.2	52.2	66.2	78.2	104.3	116.3	140.4
62.5°	2.0	2.0	4.0	10.0	36.1	44.1	62.2	72.2	84.3	108.3
65°	0.0	0.0	2.0	4.0	8.0	24.1	32.1	42.1	60.2	76.2
67.5°	0.0	0.0	2.0	4.0	4.0	10.0	16.0	26.1	32.1	56.2
70°	0.0	0.0	2.0	4.0	4.0	8.0	10.0	12.0	22.1	30.1
72.5°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	10.0	10.0	20.1
75°	0.0	0.0	2.0	4.0	6.0	8.0	10.0	10.0	8.0	8.0
77.5°	0.0	0.0	2.0	4.0	8.0	10.0	12.0	10.0	6.0	6.0
80°	0.0	0.0	2.0	6.0	10.0	14.0	16.0	12.0	6.0	4.0
82.5°	0.0	0.0	4.0	8.0	12.0	16.0	22.1	18.1	8.0	4.0
85°	0.0	0.0	2.0	6.0	12.0	16.0	32.1	22.1	10.0	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	12.0	8.0	4.0	2.0
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°
182946.0	0°	182946.0	182946.0	182946.0	182946.0	182946.0	182946.0	182946.0	182946.0	182946.0
180013.3	1°	181271.0	181397.4	180984.2	181624.1	181399.4	180083.5	179648.2	179132.7	178390.5
172878.1	2°	172348.5	172992.4	173024.5	173734.6	173724.6	172190.0	171714.6	172591.2	170880.1
160340.8	3°	159855.4	160605.6	159929.6	161191.3	160812.2	158950.7	158467.2	159462.2	158218.5
144481.6	4°	144050.4	143907.9	143675.2	142957.1	143841.7	142572.0	141615.1	142965.1	140305.2
126093.0	5°	125840.2	125523.3	125069.9	124857.3	125515.2	124702.8	122735.0	124706.8	119962.7
108007.2	6°	108139.6	106775.5	106709.3	106591.0	106657.2	104382.4	104518.8	105987.2	102039.4
88427.0	7°	89361.7	89612.5	89101.0	89921.4	89295.5	87755.0	87161.2	88707.8	85917.5
74746.3	8°	74224.7	73907.8	73516.6	74742.3	73657.0	72646.0	71954.0	73175.6	71103.4
61097.7	9°	60983.3	60435.7	60038.5	59976.3	60144.9	58247.2	58632.4	59557.1	58309.4
49683.7	10°	49701.8	48803.1	49021.8	49079.9	48895.4	47651.7	47663.7	47982.7	46482.2
30472.6	12.5°	30364.3	29923.0	30033.3	30093.5	30468.6	30031.3	29413.5	28968.1	28743.5
19213.1	15°	19084.8	18767.8	19415.7	19851.0	19762.8	19373.6	19082.7	18679.5	18354.6
12772.0	17.5°	12653.6	13068.9	13070.9	13468.0	13508.2	13119.0	12894.3	12531.3	12547.3
8306.7	20°	8276.6	8449.1	8808.2	9089.0	9251.5	8954.6	8685.8	8437.1	8332.8
5179.4	22.5°	5179.4	5480.3	5705.0	6070.1	6218.5	6001.8	5811.3	5608.7	5484.3
3233.6	25°	3179.5	3394.1	3580.6	3897.6	4100.2	3995.9	3821.4	3678.9	3612.7
2088.2	27.5°	2120.3	2210.6	2302.8	2521.5	2732.1	2674.0	2603.7	2517.5	2487.4
1472.4	30°	1494.4	1502.5	1600.8	1723.1	1863.5	1899.6	1867.6	1823.4	1789.3
1081.2	32.5°	1101.3	1133.4	1179.5	1255.7	1350.0	1436.3	1420.2	1400.2	1384.1
826.5	35°	850.5	898.7	936.8	995.0	1045.1	1127.4	1141.4	1135.4	1123.3
680.0	37.5°	694.1	736.2	774.3	808.4	850.5	906.7	950.8	952.8	940.8
561.7	40°	575.7	613.8	664.0	690.1	720.1	762.3	816.4	820.4	816.4
475.4	42.5°	485.4	521.6	571.7	603.8	625.9	666.0	720.1	728.2	720.1
407.2	45°	417.2	439.3	491.5	529.6	551.6	577.7	635.9	643.9	641.9
351.0	47.5°	363.1	385.1	417.2	471.4	491.5	515.5	561.7	575.7	575.7
310.9	50°	318.9	341.0	369.1	417.2	447.3	467.4	505.5	525.6	525.6
270.8	52.5°	282.8	304.9	335.0	373.1	407.2	425.3	461.4	487.4	487.4
220.7	55°	236.7	274.8	296.9	331.0	377.1	393.2	421.3	455.4	455.4
192.6	57.5°	206.6	238.7	270.8	298.9	345.0	365.1	393.2	425.3	429.3
152.5	60°	174.5	204.6	242.7	266.8	310.9	337.0	367.1	397.2	405.2
116.3	62.5°	138.4	178.5	204.6	238.7	280.8	314.9	339.0	369.1	381.1
90.3	65°	102.3	146.4	176.5	212.6	252.8	288.9	308.9	341.0	349.0
64.2	67.5°	74.2	114.3	150.4	184.5	222.7	258.8	278.8	306.9	312.9
40.1	70°	58.2	84.3	124.4	154.5	194.6	224.7	246.7	264.8	270.8
26.1	72.5°	34.1	64.2	100.3	134.4	170.5	190.6	206.6	222.7	226.7
12.0	75°	22.1	50.1	82.2	112.3	138.4	156.5	170.5	184.5	186.6
6.0	77.5°	14.0	36.1	66.2	94.3	106.3	128.4	140.4	148.4	144.4
4.0	80°	8.0	28.1	58.2	76.2	86.3	100.3	112.3	122.4	112.3
4.0	82.5°	6.0	24.1	48.1	64.2	64.2	80.2	86.3	86.3	82.2
2.0	85°	4.0	20.1	38.1	60.2	48.1	60.2	56.2	56.2	56.2
2.0	87.5°	4.0	14.0	18.1	26.1	22.1	26.1	26.1	30.1	30.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
182946.0  
177090.6  
168878.2  
155043.0  
138078.6  
119511.4  
101730.5  
84501.3  
69687.2  
56668.5  
45812.2  
28697.3  
18472.9  
12441.0  
8350.8  
5500.4  
3596.7  
2467.3  
1793.3  
1384.1  
1115.3  
938.8  
814.4  
722.1  
641.9  
577.7  
527.6  
487.4  
457.4  
427.3  
405.2  
383.1  
347.0  
308.9  
270.8  
226.7  
184.5  
144.4  
110.3  
80.2  
54.2  
30.1  
0.0

(END OF REPORT)