

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: P637116

Luminaire Tested: **IFLD-S-SA2C-740-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637116  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-740-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14135 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

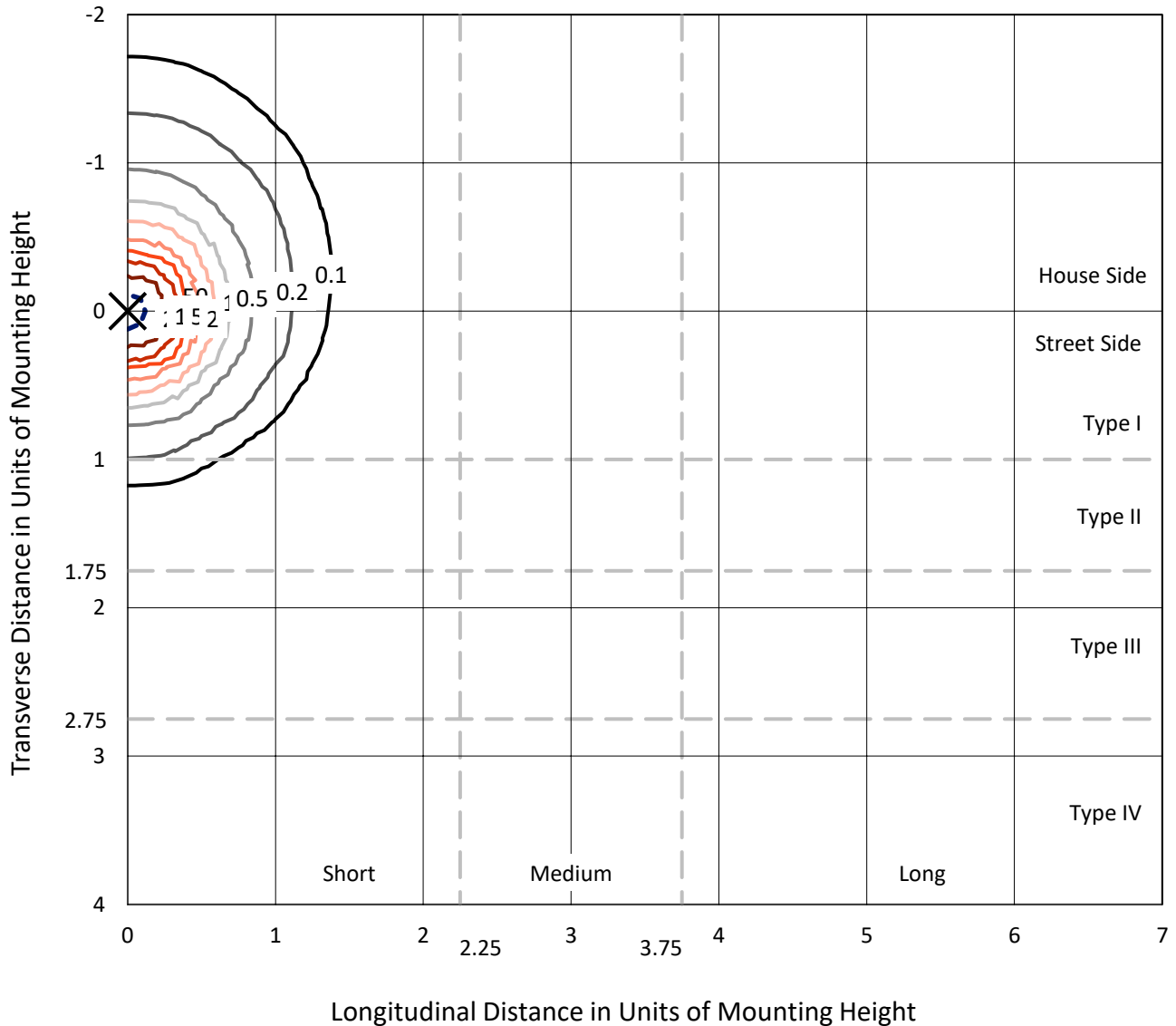
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

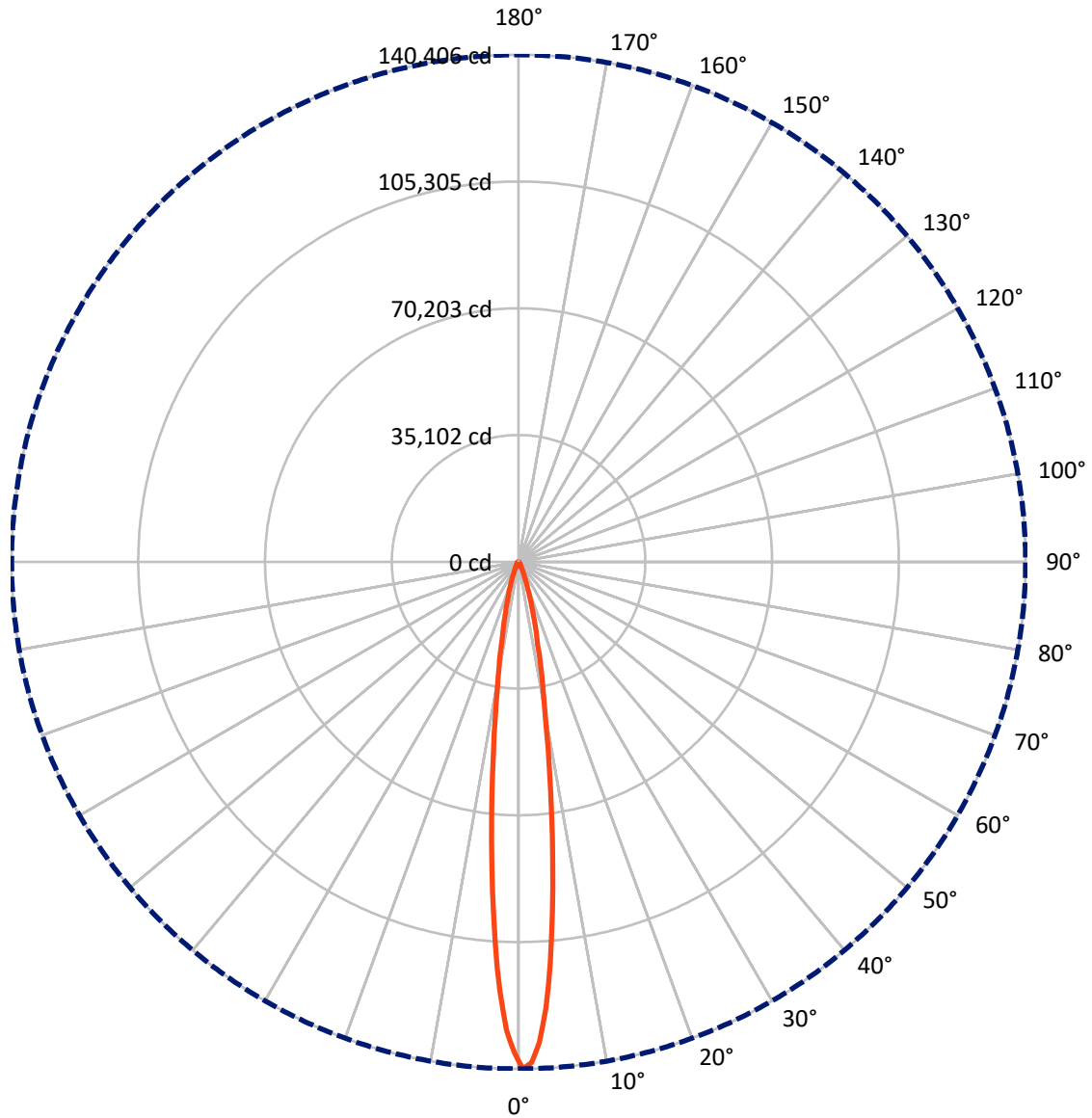
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 351 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	7239.7	0.0	7239.7
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	6895.3	0.0	6895.3
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	14135.0	0.0	14135.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7135.8	50.5
10°-20°	4568.3	32.3
20°-30°	1373.1	9.7
30°-40°	447.1	3.2
40°-50°	260.1	1.8
50°-60°	172.8	1.2
60°-70°	104.0	0.7
70°-80°	53.5	0.4
80°-90°	20.3	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°	14135.0	100.0
0°-180°	14135.0	100.0

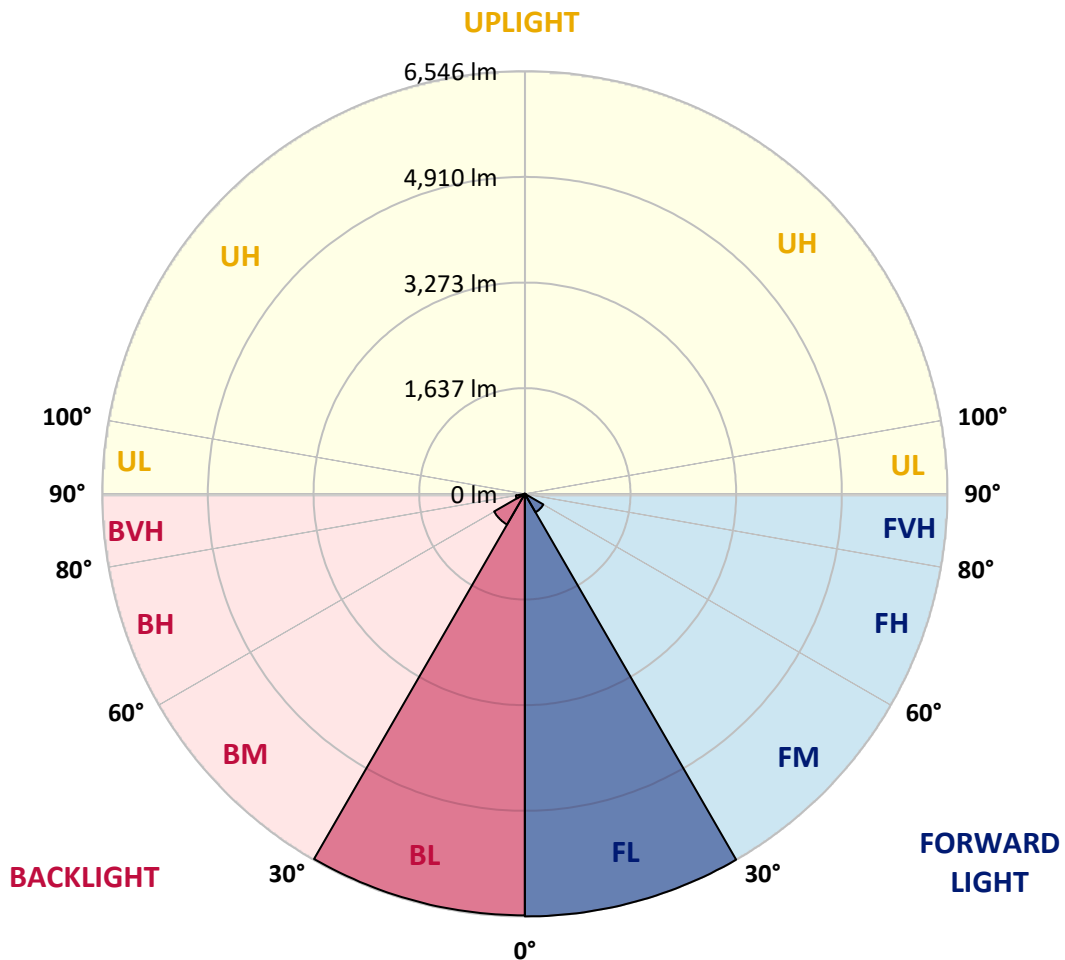


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6546.3	46.3			
FM (30°-60°)	330.3	2.3			
FH (60°-80°)	15.5	0.1			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	6530.8	46.2	B5		
BM (30°-60°)	549.7	3.9	B1/1000		
BH (60°-80°)	141.9	1.0	B1/500		G0/660
BVH (80°-90°)	17.2	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°	140406.1	140406.1	140406.1	140406.1	140406.1	140406.1	140406.1	140406.1	140406.1	140406.1
1°	138724.9	138301.5	137208.5	137985.9	138669.5	138470.9	138457.0	138383.1	138280.0	139089.8
2°	133179.5	132905.5	131289.0	131955.6	132927.1	132218.9	132662.3	132272.8	132280.5	133247.3
3°	123831.6	123980.9	121402.2	122613.8	123963.9	122247.4	122780.1	123780.7	122732.3	122416.7
4°	111681.6	110385.4	108976.7	110208.3	110557.8	109558.6	110540.8	111766.3	110309.9	110374.6
5°	97810.5	96852.9	95185.6	95946.2	95079.4	95395.0	96866.8	97371.8	96355.7	95076.3
6°	83548.4	82867.9	80783.4	81879.5	81571.6	81393.1	83251.3	81711.7	82266.0	81491.6
7°	69495.6	68224.0	67200.2	68250.1	68317.9	67780.6	70193.0	69912.8	68904.4	68670.4
8°	57578.2	56309.6	55442.8	56224.9	56736.0	55892.4	57027.0	57772.1	56983.9	57054.7
9°	46439.7	46216.5	45011.0	46033.3	46589.1	45685.4	46941.6	47211.0	46473.6	46832.3
10°	38130.9	37870.7	36908.5	37322.7	38243.3	37165.6	38371.1	38458.8	37870.7	38038.5
12.5°	23563.9	23459.3	23433.1	23493.1	23480.8	23671.7	23979.6	23628.6	23582.4	23002.0
15°	15230.5	15386.0	15225.9	15533.8	15578.4	15758.6	15570.7	15287.5	14747.1	14479.2
17.5°	9505.0	9703.6	9977.7	10428.7	10879.8	10932.2	10682.8	10350.2	10088.5	9802.1
20°	5468.4	5565.4	5523.8	6064.2	7231.1	7548.3	7226.5	6877.1	6561.4	6272.0
22.5°	3397.7	3362.3	3427.0	3608.6	3988.9	4969.6	4706.3	4356.9	4127.5	3888.8
25°	2083.0	2121.5	2096.8	2196.9	2367.8	2783.5	2843.5	2692.6	2575.6	2452.5
27.5°	1340.9	1340.9	1351.7	1407.1	1524.1	1510.3	1830.5	1713.5	1650.4	1590.3
30°	931.4	934.5	934.5	966.8	993.0	946.8	1029.9	1180.8	1151.6	1105.4
32.5°	691.2	700.5	708.2	725.1	703.6	654.3	674.3	849.8	832.9	815.9
35°	526.5	534.2	552.7	561.9	531.1	500.3	481.9	625.0	632.7	628.1
37.5°	383.3	388.0	421.8	457.2	421.8	394.1	383.3	480.3	517.3	512.7
40°	294.0	295.6	301.7	341.8	341.8	320.2	323.3	358.7	423.4	423.4
42.5°	252.5	252.5	258.6	252.5	254.0	277.1	284.8	289.4	358.7	358.7
45°	218.6	218.6	221.7	206.3	190.9	238.6	244.8	246.3	301.7	309.4
47.5°	183.2	183.2	189.4	169.3	161.6	189.4	206.3	210.9	260.2	266.3
50°	135.5	137.0	155.5	138.6	143.2	146.3	178.6	181.7	220.2	234.0
52.5°	90.8	90.8	93.9	107.8	124.7	120.1	144.7	155.5	175.5	194.0
55°	73.9	73.9	72.4	69.3	92.4	100.1	106.2	129.3	143.2	166.3
57.5°	50.8	53.9	49.3	57.0	60.0	75.4	80.1	101.6	109.3	140.1
60°	6.2	7.7	10.8	41.6	40.0	50.8	60.0	80.1	89.3	107.8
62.5°	1.5	1.5	3.1	7.7	27.7	33.9	47.7	55.4	64.7	83.1
65°	0.0	0.0	1.5	3.1	6.2	18.5	24.6	32.3	46.2	58.5
67.5°	0.0	0.0	1.5	3.1	3.1	7.7	12.3	20.0	24.6	43.1
70°	0.0	0.0	1.5	3.1	3.1	6.2	7.7	9.2	16.9	23.1
72.5°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	7.7	7.7	15.4
75°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	7.7	6.2	6.2
77.5°	0.0	0.0	1.5	3.1	6.2	7.7	9.2	7.7	4.6	4.6
80°	0.0	0.0	1.5	4.6	7.7	10.8	12.3	9.2	4.6	3.1
82.5°	0.0	0.0	3.1	6.2	9.2	12.3	16.9	13.9	6.2	3.1
85°	0.0	0.0	1.5	4.6	9.2	12.3	24.6	16.9	7.7	1.5
87.5°	0.0	0.0	0.0	1.5	1.5	3.1	9.2	6.2	3.1	1.5
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°
140406.1	0°	140406.1	140406.1	140406.1	140406.1	140406.1	140406.1	140406.1	140406.1
138155.3	1°	139120.6	139217.5	138900.4	139391.5	139219.1	138209.2	137875.1	137479.4
132679.2	2°	132272.8	132766.9	132791.6	133336.6	133328.9	132151.1	131786.3	132459.0
123057.2	3°	122684.6	123260.4	122741.6	123709.9	123419.0	121990.3	121619.3	122382.9
110885.7	4°	110554.7	110445.4	110266.8	109715.7	110394.6	109420.1	108685.7	109721.8
96772.9	5°	96578.9	96335.7	95987.7	95824.5	96329.5	95706.0	94195.7	95709.1
82892.5	6°	82994.2	81947.3	81896.5	81805.6	81856.4	80110.6	80215.3	81342.2
67865.3	7°	68582.7	68775.1	68382.5	69012.2	68531.9	67349.5	66893.8	68080.8
57365.7	8°	56965.4	56722.2	56422.0	57362.6	56529.8	55753.8	55222.7	56160.3
46890.8	9°	46803.0	46382.8	46077.9	46030.2	46159.5	44703.1	44998.7	45708.4
38130.9	10°	38144.8	37455.1	37622.9	37667.5	37525.9	36571.4	36580.6	36825.4
23386.9	12.5°	23303.8	22965.1	23049.7	23095.9	23383.8	23048.2	22574.0	22232.3
14745.6	15°	14647.0	14403.8	14901.0	15235.1	15167.4	14868.7	14645.5	14336.0
9802.1	17.5°	9711.3	10030.0	10031.5	10336.4	10367.1	10068.5	9896.1	9617.4
6375.2	20°	6352.1	6484.5	6760.0	6975.6	7100.3	6872.4	6666.1	6475.2
3975.0	22.5°	3975.0	4206.0	4378.4	4658.6	4772.5	4606.3	4460.0	4304.5
2481.7	25°	2440.1	2604.9	2748.0	2991.3	3146.8	3066.7	2932.8	2823.5
1602.6	27.5°	1627.3	1696.6	1767.4	1935.2	2096.8	2052.2	1998.3	1932.1
1130.0	30°	1146.9	1153.1	1228.5	1322.5	1430.2	1457.9	1433.3	1399.4
829.8	32.5°	845.2	869.8	905.2	963.7	1036.1	1102.3	1090.0	1074.6
634.3	35°	652.8	689.7	719.0	763.6	802.1	865.2	876.0	871.4
521.9	37.5°	532.7	565.0	594.3	620.4	652.8	695.9	729.7	731.3
431.1	40°	441.8	471.1	509.6	529.6	552.7	585.0	626.6	629.7
364.9	42.5°	372.6	400.3	438.8	463.4	480.3	511.1	552.7	558.8
312.5	45°	320.2	337.2	377.2	406.4	423.4	443.4	488.0	494.2
269.4	47.5°	278.7	295.6	320.2	361.8	377.2	395.7	431.1	441.8
238.6	50°	244.8	261.7	283.3	320.2	343.3	358.7	388.0	403.4
207.8	52.5°	217.1	234.0	257.1	286.4	312.5	326.4	354.1	374.1
169.3	55°	181.7	210.9	227.8	254.0	289.4	301.7	323.3	349.5
147.8	57.5°	158.6	183.2	207.8	229.4	264.8	280.2	301.7	326.4
117.0	60°	133.9	157.0	186.3	204.8	238.6	258.6	281.7	304.8
89.3	62.5°	106.2	137.0	157.0	183.2	215.5	241.7	260.2	283.3
69.3	65°	78.5	112.4	135.5	163.2	194.0	221.7	237.1	261.7
49.3	67.5°	57.0	87.8	115.5	141.6	170.9	198.6	214.0	235.5
30.8	70°	44.6	64.7	95.5	118.5	149.3	172.4	189.4	203.2
20.0	72.5°	26.2	49.3	77.0	103.1	130.9	146.3	158.6	170.9
9.2	75°	16.9	38.5	63.1	86.2	106.2	120.1	130.9	141.6
4.6	77.5°	10.8	27.7	50.8	72.4	81.6	98.5	107.8	113.9
3.1	80°	6.2	21.6	44.6	58.5	66.2	77.0	86.2	93.9
3.1	82.5°	4.6	18.5	36.9	49.3	49.3	61.6	66.2	66.2
1.5	85°	3.1	15.4	29.3	46.2	36.9	46.2	43.1	43.1
1.5	87.5°	3.1	10.8	13.9	20.0	16.9	20.0	20.0	23.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
140406.1  
135912.2  
129609.4  
118991.3  
105971.5  
91721.7  
78075.4  
64852.4  
53483.0  
43491.5  
35159.6  
22024.4  
14177.5  
9548.1  
6409.0  
4221.4  
2760.4  
1893.6  
1376.3  
1062.3  
856.0  
720.5  
625.0  
554.2  
492.6  
443.4  
404.9  
374.1  
351.0  
327.9  
311.0  
294.0  
266.3  
237.1  
207.8  
174.0  
141.6  
110.8  
84.7  
61.6  
41.6  
23.1  
0.0

(END OF REPORT)