

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: P637121

Luminaire Tested: **IFLD-S-SA3C-740-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637121  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-740-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21065.1 lumens  
Efficiency: N/A  
Efficacy: 131.0 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

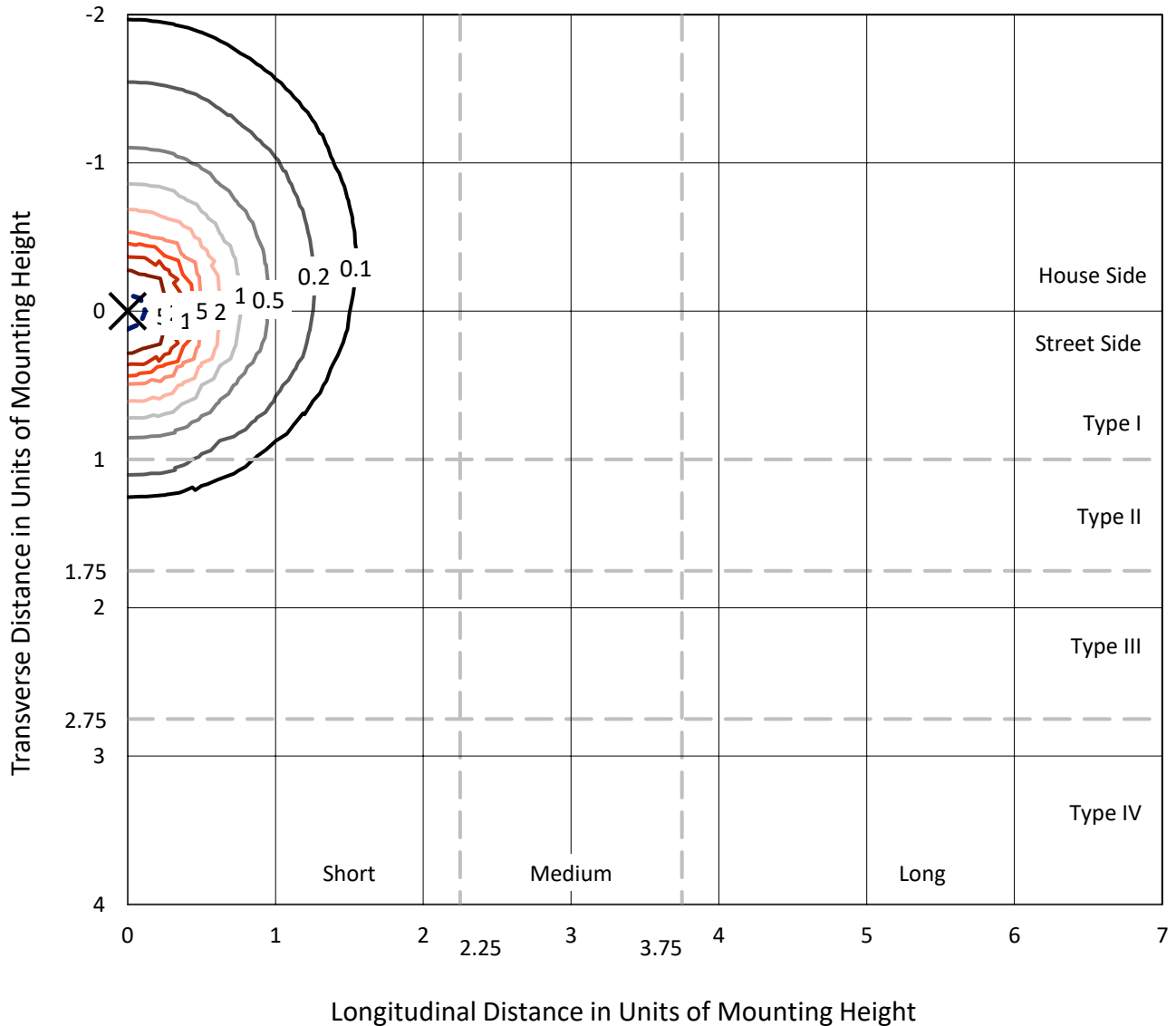
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

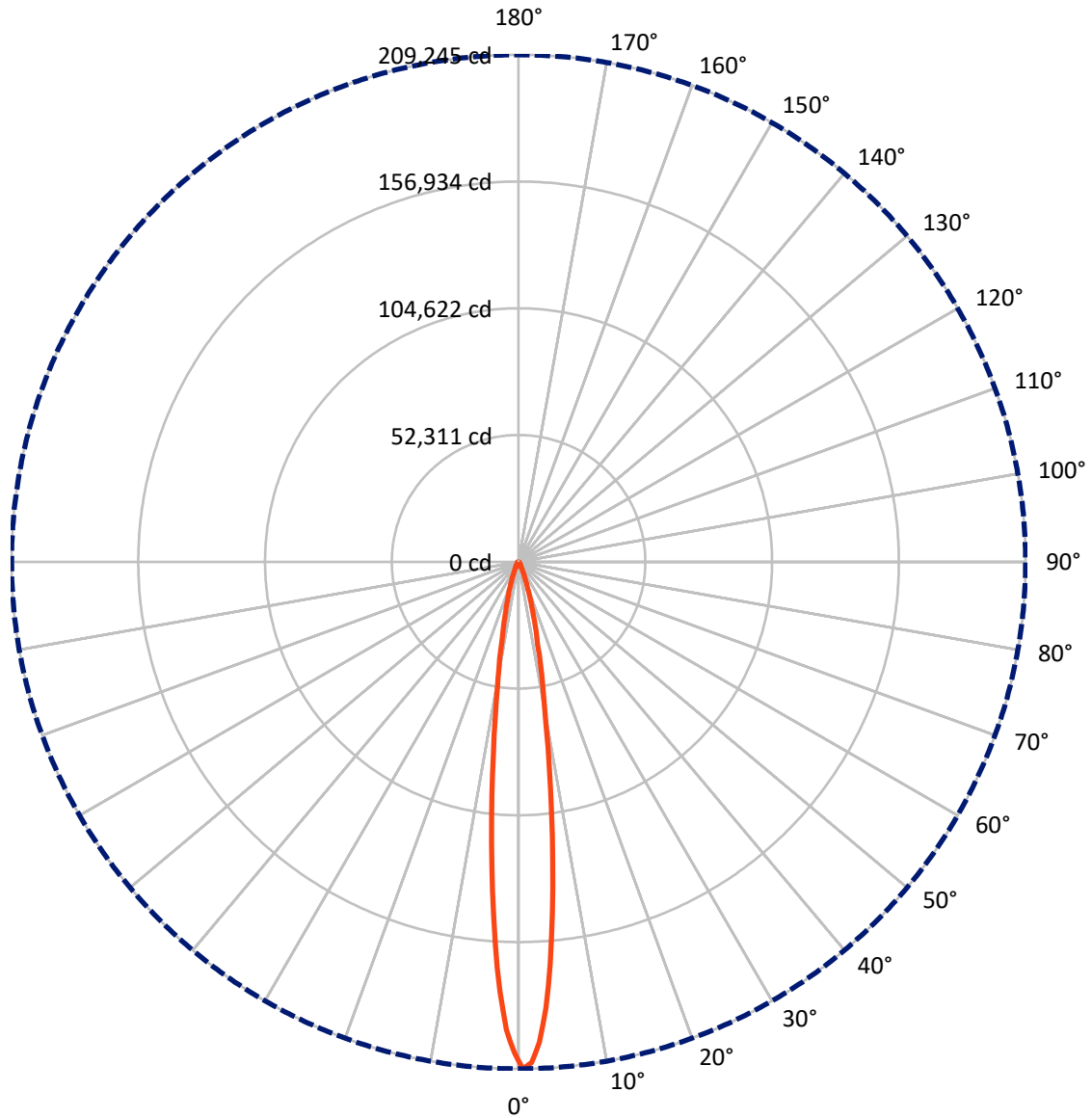
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 523.1 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	10789.1	0.0	10789.1
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	10276.0	0.0	10276.0
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	21065.1	0.0	21065.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	10634.3	50.5
10°-20°	6808.0	32.3
20°-30°	2046.4	9.7
30°-40°	666.3	3.2
40°-50°	387.7	1.8
50°-60°	257.5	1.2
60°-70°	155.0	0.7
70°-80°	79.7	0.4
80°-90°	30.3	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°	21065.1	100.0
0°-180°	21065.1	100.0

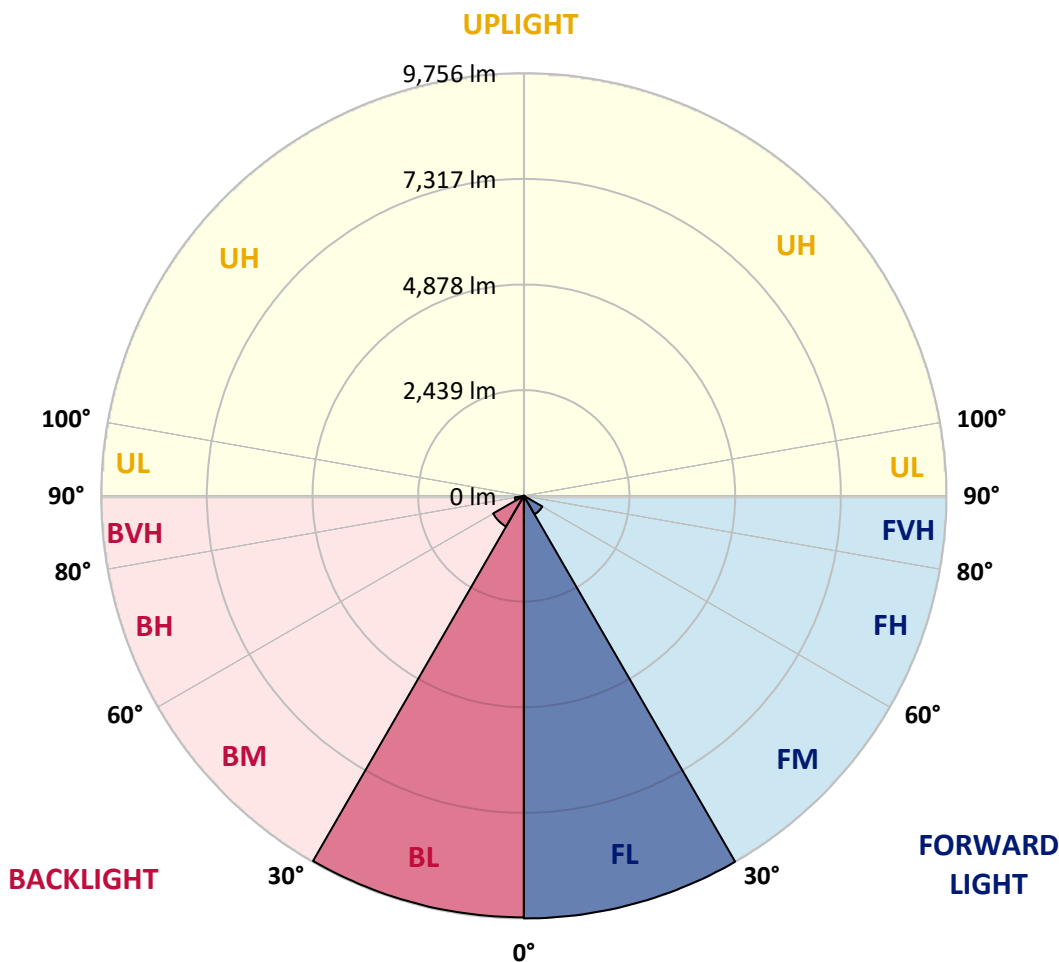


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9755.9	46.3			
FM (30°-60°)	492.3	2.3			
FH (60°-80°)	23.2	0.1			G0/660
FVH (80°-90°)	4.6	0.0			G0/10
BL (0°-30°)	9732.8	46.2	B5		
BM (30°-60°)	819.2	3.9	B1/1000		
BH (60°-80°)	211.5	1.0	B1/500		G0/660
BVH (80°-90°)	25.7	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°	209244.7	209244.7	209244.7	209244.7	209244.7	209244.7	209244.7	209244.7	209244.7	209244.7
1°	206739.3	206108.3	204479.3	205638.0	206656.7	206360.7	206340.0	206229.9	206076.2	207283.0
2°	198475.1	198066.7	195657.7	196651.1	198098.8	197043.4	197704.2	197123.7	197135.2	198576.0
3°	184544.0	184766.5	180923.5	182729.2	184741.3	182183.1	182976.9	184468.3	182905.8	182435.5
4°	166437.2	164505.3	162406.0	164241.5	164762.3	163273.3	164737.1	166563.3	164392.9	164489.3
5°	145765.3	144338.2	141853.5	142986.9	141695.2	142165.5	144358.9	145111.4	143597.2	141690.6
6°	124510.7	123496.6	120390.1	122023.6	121564.8	121298.6	124067.9	121773.5	122599.5	121445.5
7°	103568.1	101673.0	100147.2	101712.0	101812.9	101012.2	104607.4	104189.8	102687.1	102338.3
8°	85807.7	83917.2	82625.5	83791.0	84552.7	83295.4	84986.4	86096.8	84922.1	85027.7
9°	69208.3	68875.6	67079.2	68602.6	69430.8	68084.1	69956.2	70357.7	69258.8	69793.3
10°	56825.8	56438.1	55004.1	55621.3	56993.3	55387.3	57183.7	57314.5	56438.1	56688.2
12.5°	35116.9	34960.9	34921.9	35011.4	34993.0	35277.5	35736.4	35213.3	35144.5	34279.5
15°	22697.7	22929.5	22690.9	23149.7	23216.3	23484.7	23204.8	22782.6	21977.3	21578.1
17.5°	14165.2	14461.1	14869.5	15541.8	16214.0	16292.0	15920.3	15424.7	15034.7	14608.0
20°	8149.4	8294.0	8232.0	9037.3	10776.4	11249.1	10769.6	10248.7	9778.4	9347.1
22.5°	5063.6	5010.8	5107.2	5377.9	5944.6	7406.1	7013.7	6492.9	6151.1	5795.5
25°	3104.2	3161.6	3124.9	3274.0	3528.7	4148.1	4237.6	4012.8	3838.4	3654.9
27.5°	1998.4	1998.4	2014.4	2097.0	2271.4	2250.7	2728.0	2553.6	2459.5	2370.0
30°	1388.1	1392.7	1392.7	1440.8	1479.8	1411.0	1534.9	1759.7	1716.2	1647.3
32.5°	1030.2	1043.9	1055.4	1080.6	1048.5	975.1	1004.9	1266.5	1241.2	1216.0
35°	784.7	796.1	823.7	837.4	791.5	745.7	718.1	931.5	943.0	936.1
37.5°	571.3	578.2	628.6	681.4	628.6	587.3	571.3	715.8	770.9	764.0
40°	438.2	440.5	449.7	509.3	509.3	477.2	481.8	534.6	630.9	630.9
42.5°	376.3	376.3	385.4	376.3	378.6	413.0	424.4	431.3	534.6	534.6
45°	325.8	325.8	330.4	307.4	284.5	355.6	364.8	367.1	449.7	461.2
47.5°	273.0	273.0	282.2	252.4	240.9	282.2	307.4	314.3	387.7	396.9
50°	201.9	204.2	231.7	206.5	213.4	218.0	266.1	270.7	328.1	348.7
52.5°	135.4	135.4	140.0	160.6	185.8	179.0	215.7	231.7	261.6	289.1
55°	110.1	110.1	107.8	103.2	137.7	149.1	158.3	192.7	213.4	247.8
57.5°	75.7	80.3	73.4	84.9	89.5	112.4	119.3	151.4	162.9	208.8
60°	9.2	11.5	16.1	61.9	59.7	75.7	89.5	119.3	133.1	160.6
62.5°	2.3	2.3	4.6	11.5	41.3	50.5	71.1	82.6	96.4	123.9
65°	0.0	0.0	2.3	4.6	9.2	27.5	36.7	48.2	68.8	87.2
67.5°	0.0	0.0	2.3	4.6	4.6	11.5	18.4	29.8	36.7	64.2
70°	0.0	0.0	2.3	4.6	4.6	9.2	11.5	13.8	25.2	34.4
72.5°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	11.5	11.5	22.9
75°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	11.5	9.2	9.2
77.5°	0.0	0.0	2.3	4.6	9.2	11.5	13.8	11.5	6.9	6.9
80°	0.0	0.0	2.3	6.9	11.5	16.1	18.4	13.8	6.9	4.6
82.5°	0.0	0.0	4.6	9.2	13.8	18.4	25.2	20.6	9.2	4.6
85°	0.0	0.0	2.3	6.9	13.8	18.4	36.7	25.2	11.5	2.3
87.5°	0.0	0.0	0.0	2.3	2.3	4.6	13.8	9.2	4.6	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°
209244.7	0°	209244.7	209244.7	209244.7	209244.7	209244.7	209244.7	209244.7	209244.7
205890.4	1°	207328.9	207473.4	207000.8	207732.7	207475.7	205970.7	205472.8	204883.1
197729.4	2°	197123.7	197860.2	197896.9	198709.1	198697.6	196942.5	196398.7	197401.4
183389.9	3°	182834.7	183692.8	182919.6	184362.7	183929.1	181800.0	181247.0	182385.0
165251.0	4°	164757.7	164594.8	164328.7	163507.3	164519.1	163066.8	161972.4	163516.5
144218.9	5°	143929.8	143567.3	143048.8	142805.6	143558.2	142629.0	140378.2	142633.5
123533.3	6°	123684.7	122124.6	122048.9	121913.5	121989.2	119387.5	119543.5	121222.9
101138.4	7°	102207.6	102494.3	101909.3	102847.7	102131.8	100369.8	99690.7	101459.6
85491.1	8°	84894.6	84532.1	84084.7	85486.5	84245.3	83088.9	82297.4	83694.7
69880.5	9°	69749.7	69123.4	68669.1	68598.0	68790.7	66620.3	67060.8	68118.5
56825.8	10°	56846.5	55818.6	56068.7	56135.2	55924.2	54501.7	54515.4	54880.2
34853.1	12.5°	34729.2	34224.4	34350.6	34419.5	34848.5	34348.3	33641.7	33132.3
21975.0	15°	21828.2	21465.7	22206.8	22704.6	22603.7	22158.6	21825.9	21364.7
14608.0	17.5°	14472.6	14947.5	14949.8	15404.1	15450.0	15004.9	14747.9	14332.6
9500.8	20°	9466.4	9663.7	10074.4	10395.6	10581.4	10241.9	9934.4	9649.9
5923.9	22.5°	5923.9	6268.1	6525.1	6942.6	7112.4	6864.6	6646.7	6414.9
3698.5	25°	3636.5	3882.0	4095.4	4457.9	4689.6	4570.3	4370.7	4207.8
2388.4	27.5°	2425.1	2528.3	2633.9	2884.0	3124.9	3058.3	2978.0	2879.4
1684.0	30°	1709.3	1718.4	1830.9	1970.8	2131.4	2172.7	2136.0	2085.5
1236.6	32.5°	1259.6	1296.3	1349.1	1436.2	1544.1	1642.7	1624.4	1601.4
945.3	35°	972.8	1027.9	1071.4	1138.0	1195.3	1289.4	1305.5	1298.6
777.8	37.5°	793.8	842.0	885.6	924.6	972.8	1037.0	1087.5	1089.8
642.4	40°	658.5	702.1	759.4	789.2	823.7	871.8	933.8	938.4
543.8	42.5°	555.2	596.5	653.9	690.6	715.8	761.7	823.7	832.8
465.7	45°	477.2	502.5	562.1	605.7	630.9	660.8	727.3	736.5
401.5	47.5°	415.3	440.5	477.2	539.2	562.1	589.6	642.4	658.5
355.6	50°	364.8	390.0	422.2	477.2	511.6	534.6	578.2	601.1
309.7	52.5°	323.5	348.7	383.2	426.7	465.7	486.4	527.7	557.5
252.4	55°	270.7	314.3	339.6	378.6	431.3	449.7	481.8	520.8
220.3	57.5°	236.3	273.0	309.7	341.9	394.6	417.6	449.7	486.4
174.4	60°	199.6	234.0	277.6	305.1	355.6	385.4	419.9	454.3
133.1	62.5°	158.3	204.2	234.0	273.0	321.2	360.2	387.7	422.2
103.2	65°	117.0	167.5	201.9	243.2	289.1	330.4	353.3	390.0
73.4	67.5°	84.9	130.8	172.1	211.1	254.7	296.0	318.9	351.0
45.9	70°	66.5	96.4	142.2	176.7	222.5	257.0	282.2	302.9
29.8	72.5°	39.0	73.4	114.7	153.7	195.0	218.0	236.3	254.7
13.8	75°	25.2	57.4	94.1	128.5	158.3	179.0	195.0	211.1
6.9	77.5°	16.1	41.3	75.7	107.8	121.6	146.8	160.6	169.8
4.6	80°	9.2	32.1	66.5	87.2	98.7	114.7	128.5	140.0
4.6	82.5°	6.9	27.5	55.1	73.4	73.4	91.8	98.7	98.7
2.3	85°	4.6	22.9	43.6	68.8	55.1	68.8	64.2	64.2
2.3	87.5°	4.6	16.1	20.6	29.8	25.2	29.8	29.8	34.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
209244.7  
202547.5  
193154.6  
177330.6  
157927.5  
136691.2  
116354.4  
96648.4  
79704.8  
64814.7  
52397.8  
32822.6  
21128.4  
14229.4  
9551.3  
6291.0  
4113.7  
2822.0  
2051.1  
1583.1  
1275.6  
1073.7  
931.5  
826.0  
734.2  
660.8  
603.4  
557.5  
523.1  
488.7  
463.5  
438.2  
396.9  
353.3  
309.7  
259.3  
211.1  
165.2  
126.2  
91.8  
61.9  
34.4  
0.0

(END OF REPORT)