

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: P637146

Luminaire Tested: **IFLD-S-SA2D-750-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637146  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-750-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15909.4 lumens  
Efficiency: N/A  
Efficacy: 128.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

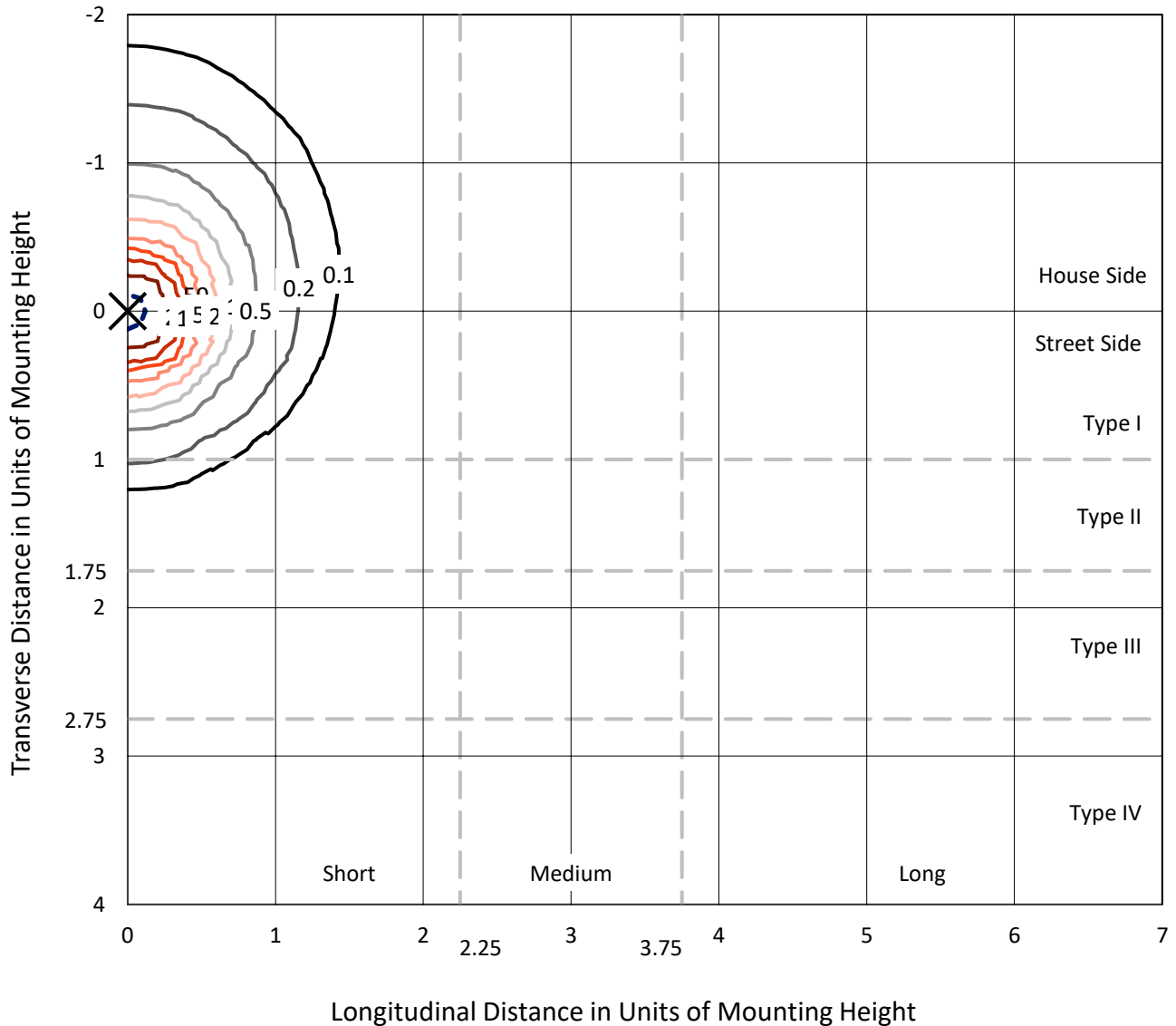
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

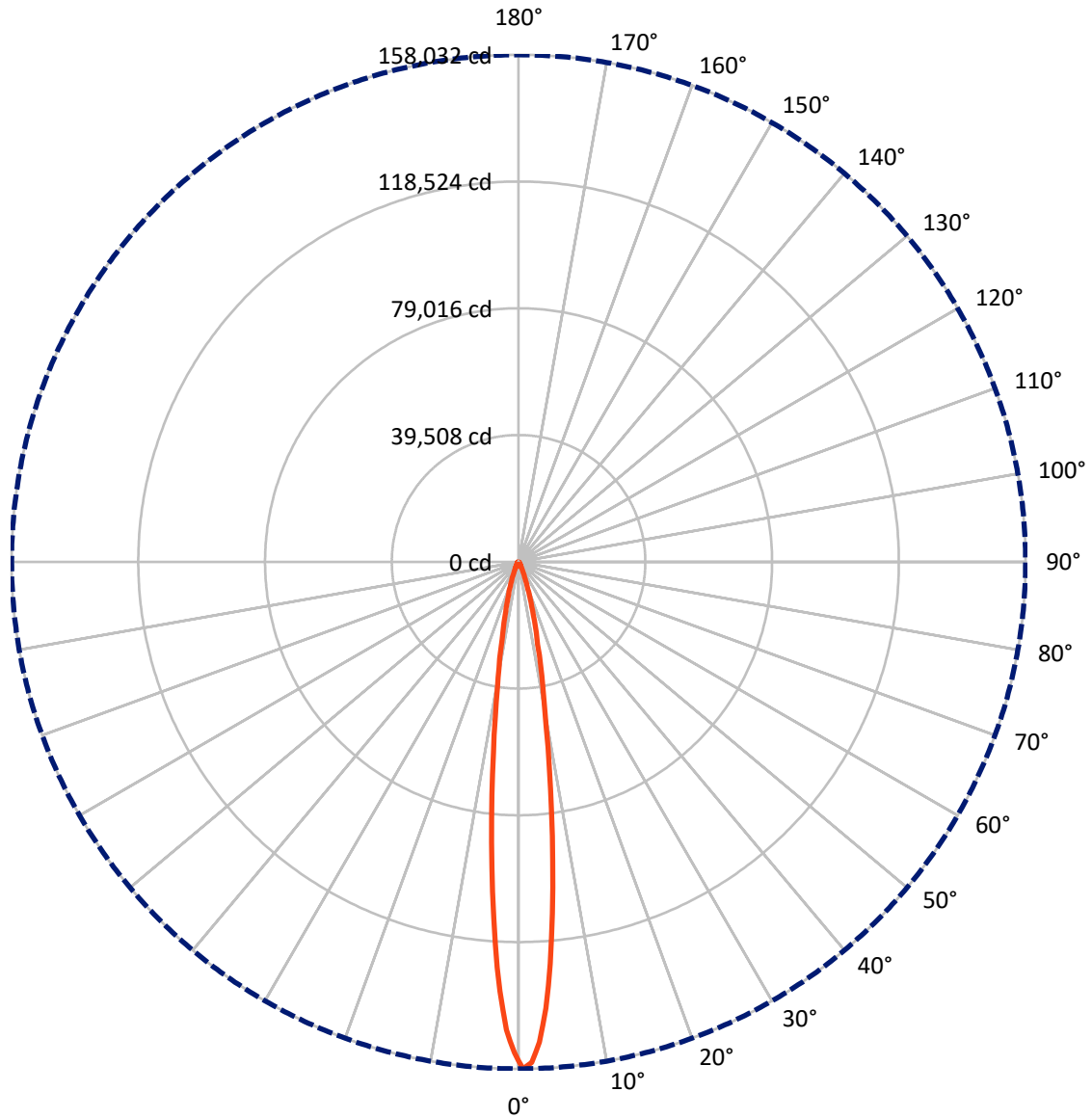
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 395.1 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	8148.5	0.0	8148.5
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	7760.9	0.0	7760.9
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	15909.4	0.0	15909.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8031.5	50.5
10°-20°	5141.8	32.3
20°-30°	1545.5	9.7
30°-40°	503.2	3.2
40°-50°	292.8	1.8
50°-60°	194.5	1.2
60°-70°	117.1	0.7
70°-80°	60.2	0.4
80°-90°	22.9	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°	15909.4	100.0
0°-180°	15909.4	100.0

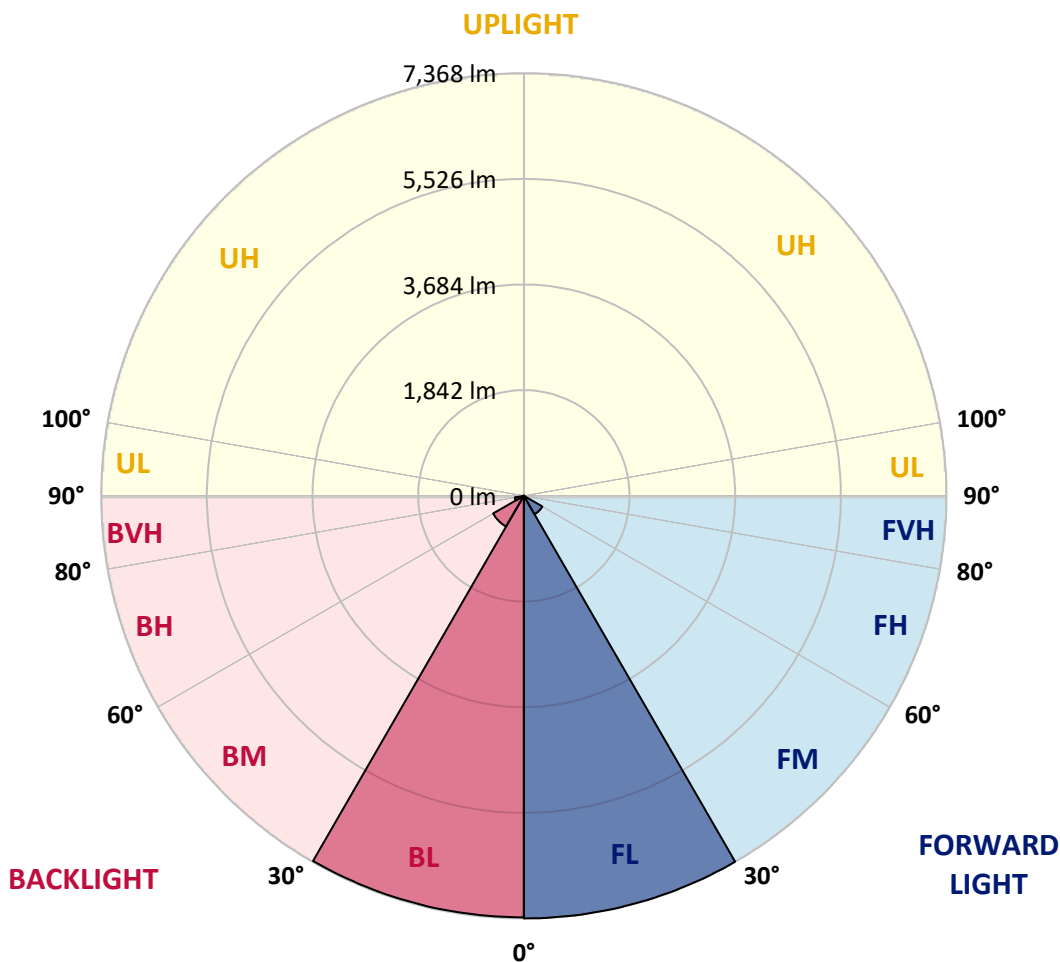


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7368.1	46.3			
FM (30°-60°)	371.8	2.3			
FH (60°-80°)	17.5	0.1			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	7350.7	46.2	B5		
BM (30°-60°)	618.7	3.9	B1/1000		
BH (60°-80°)	159.7	1.0	B1/500		G0/660
BVH (80°-90°)	19.4	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°	158031.8	158031.8	158031.8	158031.8	158031.8	158031.8	158031.8	158031.8	158031.8	158031.8
1°	156139.6	155663.1	154432.8	153307.9	156077.2	155853.7	155838.1	155754.9	155638.8	156550.3
2°	149898.1	149589.7	147770.3	148520.6	149613.9	148816.9	149315.9	148877.5	148886.2	149974.4
3°	139376.6	139544.7	136642.3	138006.0	139525.7	137593.6	138193.2	139319.5	138139.4	137784.2
4°	125701.5	124242.5	122657.0	124043.2	124436.6	123312.0	124417.5	125796.8	124157.6	124230.4
5°	110089.1	109011.3	107134.7	107990.7	107015.1	107370.4	109026.9	109595.3	108451.6	107011.7
6°	94036.6	93270.7	90924.5	92158.2	91811.7	91610.7	93702.1	91969.4	92593.2	91721.6
7°	78219.7	76788.4	75636.1	76817.9	76894.1	76289.4	79004.6	78689.3	77554.3	77290.9
8°	64806.2	63378.4	62402.8	63283.1	63858.4	62908.8	64185.9	65024.5	64137.3	64217.1
9°	52269.5	52018.2	50661.5	51812.0	52437.6	51420.4	52834.4	53137.6	52307.6	52711.4
10°	42917.6	42624.8	41541.8	42007.9	43044.1	41831.2	43188.0	43286.7	42624.8	42813.7
12.5°	26522.0	26404.2	26374.7	26442.3	26428.5	26643.3	26989.9	26594.8	26542.8	25889.6
15°	17142.5	17317.5	17137.3	17483.8	17534.1	17736.8	17525.4	17206.6	16598.4	16296.9
17.5°	10698.2	10921.8	11230.2	11737.9	12245.6	12304.5	12023.8	11649.5	11354.9	11032.6
20°	6154.9	6264.0	6217.2	6825.4	8138.9	8495.9	8133.7	7740.4	7385.1	7059.4
22.5°	3824.3	3784.4	3857.2	4061.7	4489.6	5593.4	5297.1	4903.8	4645.6	4377.0
25°	2344.5	2387.8	2360.1	2472.7	2665.0	3132.9	3200.5	3030.6	2899.0	2760.3
27.5°	1509.3	1509.3	1521.4	1583.8	1715.5	1699.9	2060.3	1928.6	1857.5	1790.0
30°	1048.3	1051.8	1051.8	1088.2	1117.6	1065.7	1159.2	1329.0	1296.1	1244.1
32.5°	778.0	788.4	797.1	816.1	791.9	736.4	759.0	956.5	937.4	918.4
35°	592.6	601.3	622.1	632.5	597.8	563.2	542.4	703.5	712.2	707.0
37.5°	431.5	436.7	474.8	514.6	474.8	443.6	431.5	540.6	582.2	577.0
40°	331.0	332.7	339.6	384.7	384.7	360.4	363.9	403.7	476.5	476.5
42.5°	284.2	284.2	291.1	284.2	285.9	311.9	320.6	325.8	403.7	403.7
45°	246.1	246.1	249.5	232.2	214.9	268.6	275.5	277.2	339.6	348.3
47.5°	206.2	206.2	213.1	190.6	181.9	213.1	232.2	237.4	292.8	299.8
50°	152.5	154.2	175.0	156.0	161.1	164.6	201.0	204.5	247.8	263.4
52.5°	102.2	102.2	105.7	121.3	140.4	135.2	162.9	175.0	197.5	218.3
55°	83.2	83.2	81.4	78.0	104.0	112.6	119.6	145.6	161.1	187.1
57.5°	57.2	60.6	55.4	64.1	67.6	84.9	90.1	114.4	123.0	157.7
60°	6.9	8.7	12.1	46.8	45.1	57.2	67.6	90.1	100.5	121.3
62.5°	1.7	1.7	3.5	8.7	31.2	38.1	53.7	62.4	72.8	93.6
65°	0.0	0.0	1.7	3.5	6.9	20.8	27.7	36.4	52.0	65.8
67.5°	0.0	0.0	1.7	3.5	3.5	8.7	13.9	22.5	27.7	48.5
70°	0.0	0.0	1.7	3.5	3.5	6.9	8.7	10.4	19.1	26.0
72.5°	0.0	0.0	1.7	3.5	5.2	6.9	8.7	8.7	8.7	17.3
75°	0.0	0.0	1.7	3.5	5.2	6.9	8.7	8.7	6.9	6.9
77.5°	0.0	0.0	1.7	3.5	6.9	8.7	10.4	8.7	5.2	5.2
80°	0.0	0.0	1.7	5.2	8.7	12.1	13.9	10.4	5.2	3.5
82.5°	0.0	0.0	3.5	6.9	10.4	13.9	19.1	15.6	6.9	3.5
85°	0.0	0.0	1.7	5.2	10.4	13.9	27.7	19.1	8.7	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.5	10.4	6.9	3.5	1.7
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°
158031.8	0°	158031.8	158031.8	158031.8	158031.8	158031.8	158031.8	158031.8	158031.8
155498.5	1°	156584.9	156694.1	156337.2	156889.9	156695.8	155559.1	155183.1	154737.8
149335.0	2°	148877.5	149433.7	149461.5	150074.9	150066.2	148740.6	148330.0	149087.2
138505.1	3°	138085.7	138733.8	138149.8	139239.8	138912.3	137304.2	136886.6	137746.1
124805.6	4°	124433.1	124310.1	124109.1	123488.7	124252.9	123156.0	122329.5	123495.7
108921.2	5°	108702.9	108429.1	108037.5	107853.8	108422.2	107720.4	106020.5	107723.8
93298.4	6°	93412.8	92234.5	92177.3	92075.1	92132.2	90167.3	90285.1	91553.5
76384.7	7°	77192.2	77408.8	76966.9	77675.6	77135.0	75804.2	75291.3	76627.3
64567.1	8°	64116.6	63842.8	63504.9	64563.6	63626.2	62752.8	62155.0	63210.3
52777.2	9°	52678.4	52205.4	51862.3	51808.6	51954.1	50314.9	50647.6	51446.4
42917.6	10°	42933.2	42157.0	42345.8	42396.1	42236.7	41162.3	41172.7	41448.2
26322.8	12.5°	26229.2	25848.0	25943.3	25995.3	26319.3	25941.5	25407.8	25023.2
16596.6	15°	16485.7	16211.9	16771.6	17147.7	17071.4	16735.2	16484.0	16135.7
11032.6	17.5°	10930.4	11289.1	11290.8	11633.9	11668.6	11332.4	11138.3	10824.7
7175.5	20°	7149.5	7298.5	7608.7	7851.3	7991.6	7735.2	7503.0	7288.1
4474.1	22.5°	4474.1	4734.0	4928.0	5243.4	5371.6	5184.5	5019.9	4844.9
2793.3	25°	2746.5	2931.9	3093.0	3366.8	3541.8	3451.7	3301.0	3177.9
1803.8	27.5°	1831.6	1909.5	1989.2	2178.1	2360.1	2309.8	2249.2	2174.6
1271.9	30°	1290.9	1297.9	1382.8	1488.5	1609.8	1640.9	1613.2	1575.1
934.0	32.5°	951.3	979.0	1018.9	1084.7	1166.2	1240.7	1226.8	1209.5
713.9	35°	734.7	776.3	809.2	859.5	902.8	973.8	986.0	980.8
587.4	37.5°	599.5	635.9	668.9	698.3	734.7	783.2	821.3	823.1
485.2	40°	497.3	530.2	573.6	596.1	622.1	658.5	705.2	708.7
410.7	42.5°	419.3	450.5	493.8	521.6	540.6	575.3	622.1	629.0
351.8	45°	360.4	379.5	424.5	457.5	476.5	499.0	549.3	556.2
303.2	47.5°	313.6	332.7	360.4	407.2	424.5	445.3	485.2	497.3
268.6	50°	275.5	294.6	318.8	360.4	386.4	403.7	436.7	454.0
233.9	52.5°	244.3	263.4	289.4	322.3	351.8	367.4	398.5	421.1
190.6	55°	204.5	237.4	256.5	285.9	325.8	339.6	363.9	393.3
166.3	57.5°	178.5	206.2	233.9	258.2	298.0	315.4	339.6	367.4
131.7	60°	150.8	176.7	209.7	230.5	268.6	291.1	317.1	343.1
100.5	62.5°	119.6	154.2	176.7	206.2	242.6	272.0	292.8	318.8
78.0	65°	88.4	126.5	152.5	183.7	218.3	249.5	266.8	294.6
55.4	67.5°	64.1	98.8	130.0	159.4	192.3	223.5	240.9	265.1
34.7	70°	50.3	72.8	107.4	133.4	168.1	194.1	213.1	228.7
22.5	72.5°	29.5	55.4	86.6	116.1	147.3	164.6	178.5	192.3
10.4	75°	19.1	43.3	71.0	97.0	119.6	135.2	147.3	159.4
5.2	77.5°	12.1	31.2	57.2	81.4	91.8	110.9	121.3	128.2
3.5	80°	6.9	24.3	50.3	65.8	74.5	86.6	97.0	105.7
3.5	82.5°	5.2	20.8	41.6	55.4	55.4	69.3	74.5	74.5
1.7	85°	3.5	17.3	32.9	52.0	41.6	52.0	48.5	48.5
1.7	87.5°	3.5	12.1	15.6	22.5	19.1	22.5	22.5	26.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
158031.8  
152973.8  
145879.8  
133928.8  
119274.6  
103235.9  
87876.5  
72993.6  
60197.0  
48951.2  
39573.4  
24789.2  
15957.2  
10746.7  
7213.6  
4751.3  
3106.9  
2131.3  
1549.1  
1195.6  
963.4  
810.9  
703.5  
623.8  
554.5  
499.0  
455.7  
421.1  
395.1  
369.1  
350.0  
331.0  
299.8  
266.8  
233.9  
195.8  
159.4  
124.8  
95.3  
69.3  
46.8  
26.0  
0.0

(END OF REPORT)