

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: P637017

Luminaire Tested: **IFLD-M-SA4E-722-U-33-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637017  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-722-U-33-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26521.1 lumens  
Efficiency: N/A  
Efficacy: 84.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

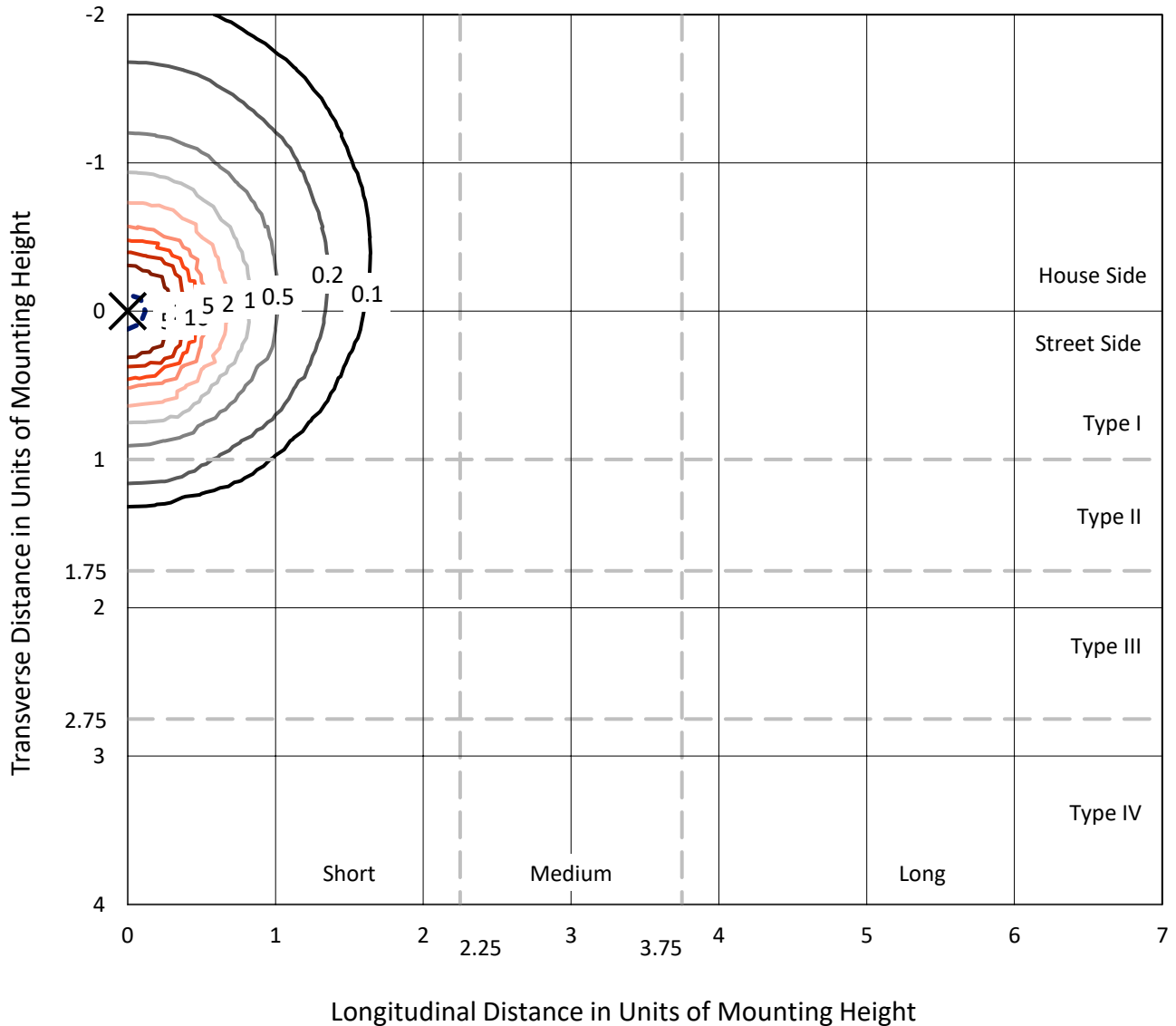
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

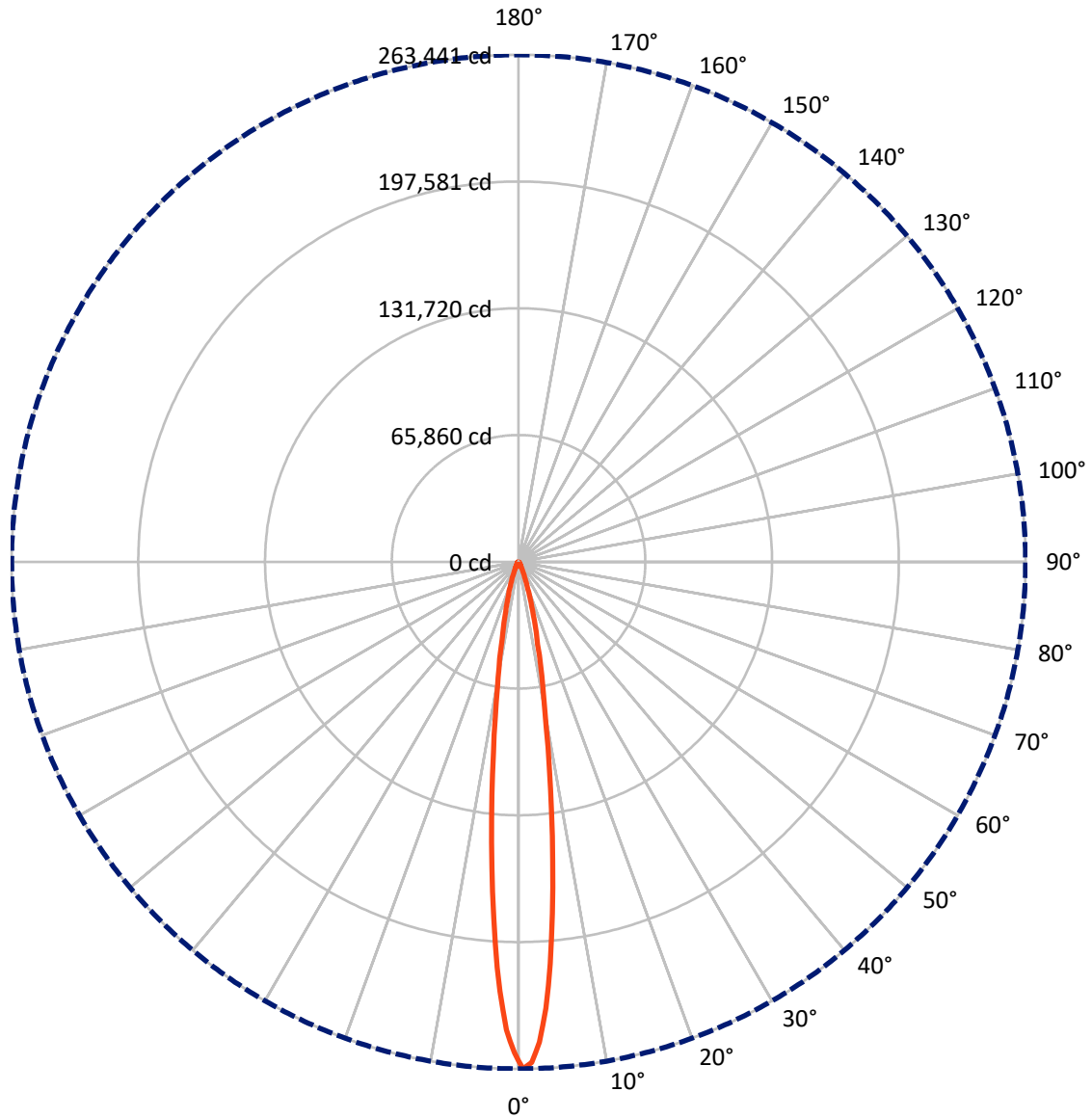
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 658.6 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	13583.6	0.0	13583.6
	% Fixture	51.2	0.0	51.2
<b>Street Side</b>	Lumens	12937.5	0.0	12937.5
	% Fixture	48.8	0.0	48.8
<b>Total</b>	Lumens	26521.1	0.0	26521.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13388.7	50.5
10°-20°	8571.4	32.3
20°-30°	2576.4	9.7
30°-40°	838.9	3.2
40°-50°	488.1	1.8
50°-60°	324.2	1.2
60°-70°	195.1	0.7
70°-80°	100.3	0.4
80°-90°	38.1	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°	26521.1	100.0
0°-180°	26521.1	100.0

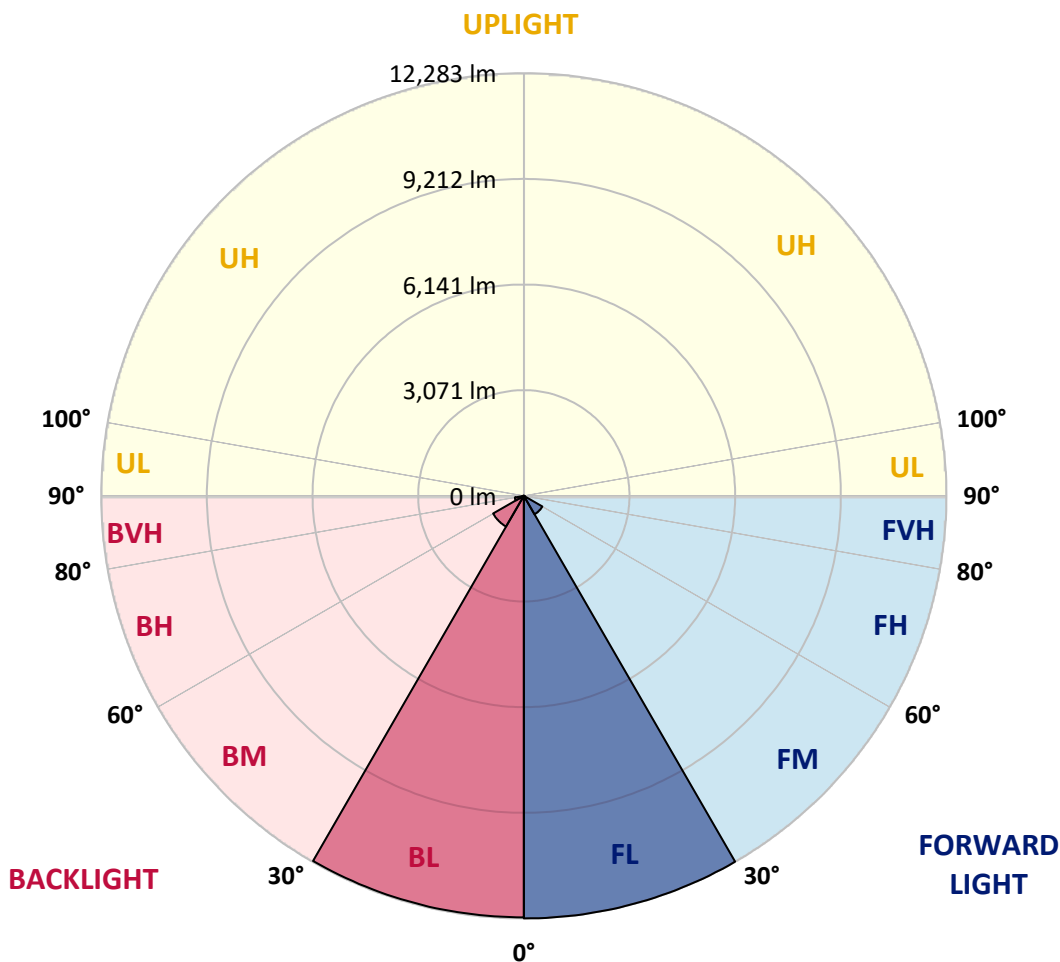


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	12282.8	46.3			
FM (30°-60°)	619.8	2.3			
FH (60°-80°)	29.2	0.1			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	12253.7	46.2	B5		
BM (30°-60°)	1031.3	3.9	B2/2500		
BH (60°-80°)	266.3	1.0	B1/500		G0/660
BVH (80°-90°)	32.4	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°	263440.9	263440.9	263440.9	263440.9	263440.9	263440.9	263440.9	263440.9	263440.9	263440.9
1°	260286.6	259492.2	257441.3	258900.1	260182.6	259810.0	259784.0	259645.3	259451.8	260971.2
2°	249881.9	249367.8	246334.8	247585.5	249408.2	248079.5	248911.4	248180.6	248195.0	250009.0
3°	232342.5	232622.7	227784.3	230057.6	232590.9	229370.2	230369.6	232247.2	230280.1	229687.9
4°	209545.9	207113.7	204470.6	206781.5	207437.2	205562.5	207405.4	209704.7	206972.1	207093.5
5°	183519.8	181723.1	178594.8	180021.7	178395.5	178987.6	181749.1	182696.6	180790.1	178389.7
6°	156760.1	155483.3	151572.2	153628.8	153051.1	152716.1	156202.6	153314.0	154353.9	152900.9
7°	130393.1	128007.2	126086.3	128056.3	128183.4	127175.3	131701.7	131176.0	129283.9	128844.9
8°	108032.7	105652.5	104026.2	105493.6	106452.6	104869.7	106998.6	108396.7	106917.7	107050.6
9°	87133.9	86715.0	84453.3	86371.3	87414.0	85718.5	88075.5	88581.0	87197.4	87870.4
10°	71544.2	71056.0	69250.7	70027.7	71755.1	69733.1	71994.8	72159.5	71056.0	71370.9
12.5°	44212.5	44016.1	43967.0	44079.6	44056.5	44414.7	44992.4	44333.8	44247.2	43158.2
15°	28576.7	28868.4	28568.0	29145.7	29229.5	29567.4	29215.0	28683.5	27669.7	27167.0
17.5°	17834.1	18206.7	18720.9	19567.2	20413.6	20511.8	20043.8	19419.9	18928.8	18391.6
20°	10260.2	10442.2	10364.2	11378.1	13567.6	14162.7	13559.0	12903.3	12311.1	11768.1
22.5°	6375.1	6308.6	6430.0	6770.8	7484.3	9324.3	8830.4	8174.7	7744.3	7296.5
25°	3908.2	3980.5	3934.2	4122.0	4442.6	5222.5	5335.2	5052.1	4832.6	4601.5
27.5°	2515.9	2515.9	2536.2	2640.2	2859.7	2833.7	3434.5	3215.0	3096.6	2983.9
30°	1747.6	1753.4	1753.4	1814.0	1863.1	1776.5	1932.5	2215.5	2160.7	2074.0
32.5°	1297.0	1314.3	1328.7	1360.5	1320.1	1227.6	1265.2	1594.5	1562.7	1530.9
35°	987.9	1002.3	1037.0	1054.3	996.6	938.8	904.1	1172.8	1187.2	1178.5
37.5°	719.3	727.9	791.5	857.9	791.5	739.5	719.3	901.2	970.6	961.9
40°	551.7	554.6	566.2	641.3	641.3	600.8	606.6	673.0	794.4	794.4
42.5°	473.7	473.7	485.3	473.7	476.6	519.9	534.4	543.1	673.0	673.0
45°	410.2	410.2	416.0	387.1	358.2	447.7	459.3	462.2	566.2	580.6
47.5°	343.7	343.7	355.3	317.7	303.3	355.3	387.1	395.7	488.2	499.7
50°	254.2	257.1	291.7	260.0	268.6	274.4	335.1	340.9	413.1	439.1
52.5°	170.4	170.4	176.2	202.2	234.0	225.3	271.5	291.7	329.3	364.0
55°	138.7	138.7	135.8	130.0	173.3	187.8	199.3	242.6	268.6	312.0
57.5°	95.3	101.1	92.4	106.9	112.7	141.5	150.2	190.6	205.1	262.9
60°	11.6	14.4	20.2	78.0	75.1	95.3	112.7	150.2	167.5	202.2
62.5°	2.9	2.9	5.8	14.4	52.0	63.5	89.5	104.0	121.3	156.0
65°	0.0	0.0	2.9	5.8	11.6	34.7	46.2	60.7	86.7	109.8
67.5°	0.0	0.0	2.9	5.8	5.8	14.4	23.1	37.6	46.2	80.9
70°	0.0	0.0	2.9	5.8	5.8	11.6	14.4	17.3	31.8	43.3
72.5°	0.0	0.0	2.9	5.8	8.7	11.6	14.4	14.4	14.4	28.9
75°	0.0	0.0	2.9	5.8	8.7	11.6	14.4	14.4	11.6	11.6
77.5°	0.0	0.0	2.9	5.8	11.6	14.4	17.3	14.4	8.7	8.7
80°	0.0	0.0	2.9	8.7	14.4	20.2	23.1	17.3	8.7	5.8
82.5°	0.0	0.0	5.8	11.6	17.3	23.1	31.8	26.0	11.6	5.8
85°	0.0	0.0	2.9	8.7	17.3	23.1	46.2	31.8	14.4	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.8	17.3	11.6	5.8	2.9
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°
263440.9	0°	263440.9	263440.9	263440.9	263440.9	263440.9	263440.9	263440.9	263440.9
259217.8	1°	261028.9	261210.9	260615.9	261537.3	261213.8	259318.9	258692.1	257949.7
248943.1	2°	248180.6	249107.8	249154.0	250176.6	250162.1	247952.4	247267.8	248530.1
230889.5	3°	230190.5	231270.8	230297.4	232114.3	231568.4	228887.8	228191.6	229624.4
208052.5	4°	207431.4	207226.3	206891.3	205857.2	207131.0	205302.6	203924.7	205868.7
181572.9	5°	181209.0	180752.6	180099.7	179793.5	180741.0	179571.1	176737.4	179576.9
155529.5	6°	155720.2	153755.9	153660.6	153490.2	153585.5	150309.9	150506.3	152620.7
127334.1	7°	128680.2	129041.3	128304.7	129486.1	128584.9	126366.5	125511.5	127738.5
107634.1	8°	106883.0	106426.6	105863.4	107628.3	106065.6	104609.7	103613.2	105372.3
87980.2	9°	87815.6	87027.0	86455.0	86365.5	86608.1	83875.5	84430.1	85761.8
71544.2	10°	71570.2	70276.1	70591.0	70674.8	70409.0	68618.1	68635.4	69094.7
43880.3	12.5°	43724.4	43088.9	43247.7	43334.4	43874.6	43244.9	42355.2	41713.9
27666.8	15°	27481.9	27025.5	27958.5	28585.3	28458.2	27897.9	27479.0	26898.4
18391.6	17.5°	18221.1	18819.1	18822.0	19393.9	19451.7	18891.3	18567.8	18044.9
11961.6	20°	11918.3	12166.7	12683.7	13088.1	13322.1	12894.6	12507.5	12149.3
7458.3	22.5°	7458.3	7891.6	8215.1	8740.8	8954.6	8642.6	8368.2	8076.5
4656.4	25°	4578.4	4887.5	5156.1	5612.5	5904.2	5754.0	5502.7	5297.6
3007.0	27.5°	3053.2	3183.2	3316.1	3630.9	3934.2	3850.5	3749.4	3625.2
2120.2	30°	2152.0	2163.5	2305.1	2481.3	2683.5	2735.5	2689.3	2625.7
1556.9	32.5°	1585.8	1632.0	1698.5	1808.2	1944.0	2068.2	2045.1	2016.2
1190.1	35°	1224.8	1294.1	1349.0	1432.7	1504.9	1623.4	1643.6	1634.9
979.2	37.5°	999.4	1060.1	1115.0	1164.1	1224.8	1305.6	1369.2	1372.1
808.8	40°	829.0	883.9	956.1	993.7	1037.0	1097.7	1175.6	1181.4
684.6	42.5°	699.0	751.0	823.2	869.5	901.2	959.0	1037.0	1048.6
586.4	45°	600.8	632.6	707.7	762.6	794.4	831.9	915.7	927.2
505.5	47.5°	522.8	554.6	600.8	678.8	707.7	742.4	808.8	829.0
447.7	50°	459.3	491.1	531.5	600.8	644.2	673.0	727.9	756.8
390.0	52.5°	407.3	439.1	482.4	537.3	586.4	612.4	664.4	701.9
317.7	55°	340.9	395.7	427.5	476.6	543.1	566.2	606.6	655.7
277.3	57.5°	297.5	343.7	390.0	430.4	496.8	525.7	566.2	612.4
219.5	60°	251.3	294.6	349.5	384.2	447.7	485.3	528.6	571.9
167.5	62.5°	199.3	257.1	294.6	343.7	404.4	453.5	488.2	531.5
130.0	65°	147.3	210.9	254.2	306.2	364.0	416.0	444.8	491.1
92.4	67.5°	106.9	164.6	216.6	265.7	320.6	372.6	401.5	442.0
57.8	70°	83.8	121.3	179.1	222.4	280.2	323.5	355.3	381.3
37.6	72.5°	49.1	92.4	144.4	193.5	245.5	274.4	297.5	320.6
17.3	75°	31.8	72.2	118.4	161.8	199.3	225.3	245.5	265.7
8.7	77.5°	20.2	52.0	95.3	135.8	153.1	184.9	202.2	213.8
5.8	80°	11.6	40.4	83.8	109.8	124.2	144.4	161.8	176.2
5.8	82.5°	8.7	34.7	69.3	92.4	92.4	115.5	124.2	124.2
2.9	85°	5.8	28.9	54.9	86.7	69.3	86.7	80.9	80.9
2.9	87.5°	5.8	20.2	26.0	37.6	31.8	37.6	37.6	43.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
263440.9  
255009.1  
243183.3  
223260.8  
198832.1  
172095.5  
146491.2  
121681.2  
100349.1  
81602.2  
65969.3  
41323.9  
26600.9  
17914.9  
12025.1  
7920.5  
5179.2  
3552.9  
2582.4  
1993.1  
1606.0  
1351.9  
1172.8  
1039.9  
924.3  
831.9  
759.7  
701.9  
658.6  
615.3  
583.5  
551.7  
499.7  
444.8  
390.0  
326.4  
265.7  
208.0  
158.9  
115.5  
78.0  
43.3  
0.0

(END OF REPORT)