

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: P637396

Luminaire Tested: **IFLD-L-SA7B-740-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637396  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-740-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (112) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34347.2 lumens  
Efficiency: N/A  
Efficacy: 122.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

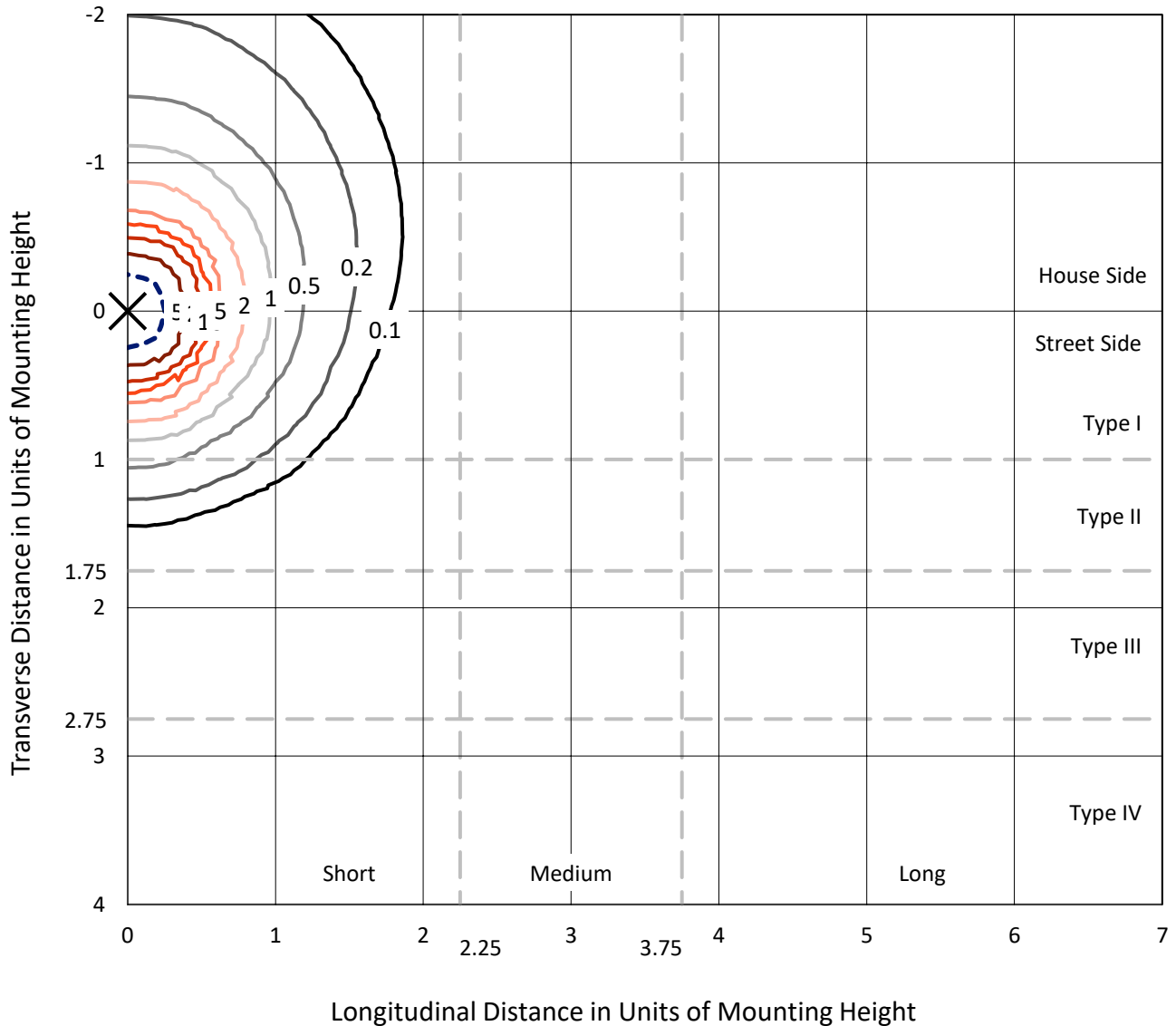
Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

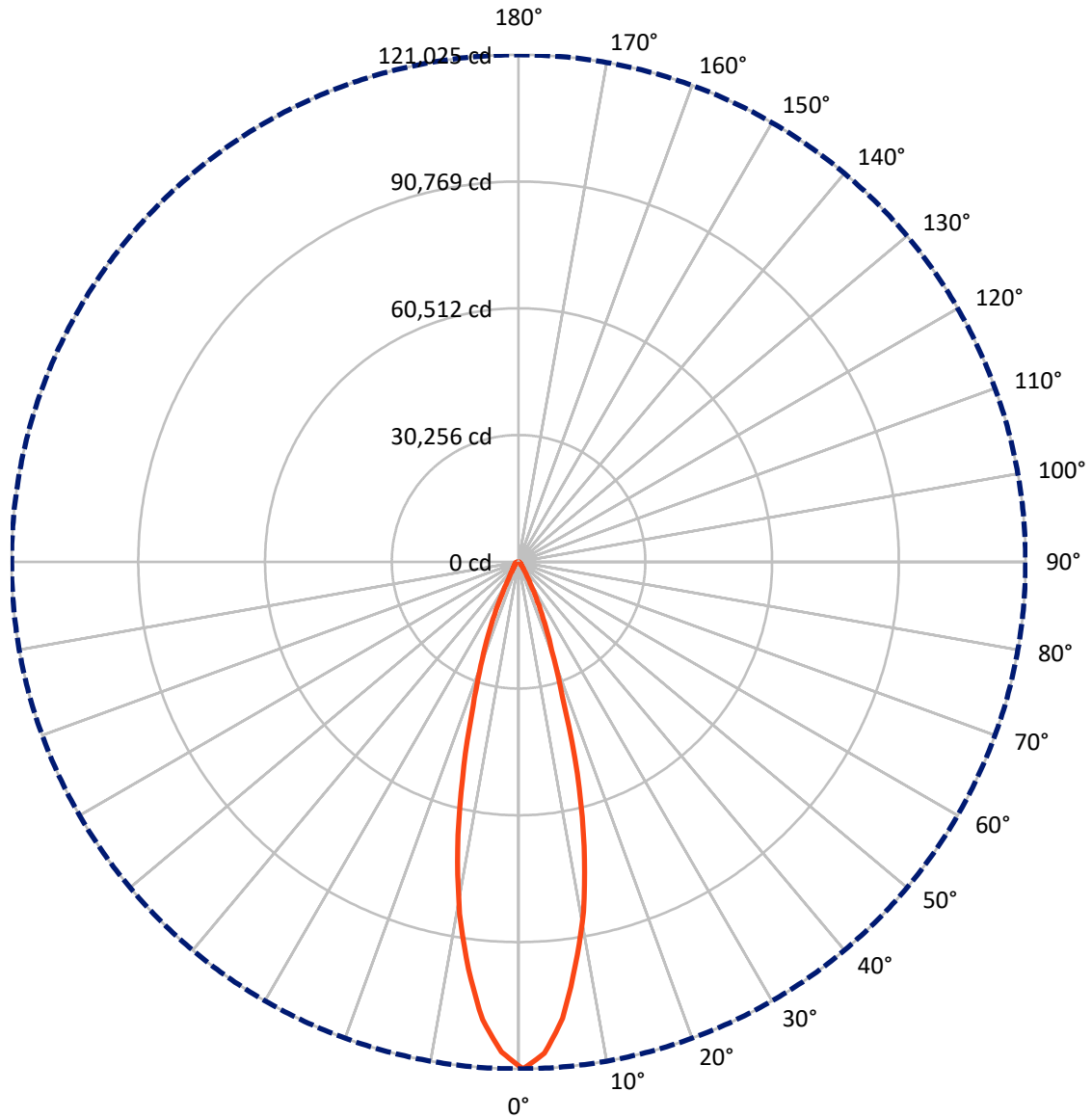
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 302.6 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	18110.2	0.0	18110.2
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	16237.1	0.0	16237.1
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	34347.2	0.0	34347.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9767.8	28.4
10°-20°	14793.2	43.1
20°-30°	6242.8	18.2
30°-40°	1628.2	4.7
40°-50°	823.5	2.4
50°-60°	538.3	1.6
60°-70°	322.5	0.9
70°-80°	169.6	0.5
80°-90°	61.3	0.2
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°	34347.2	100.0
0°-180°	34347.2	100.0

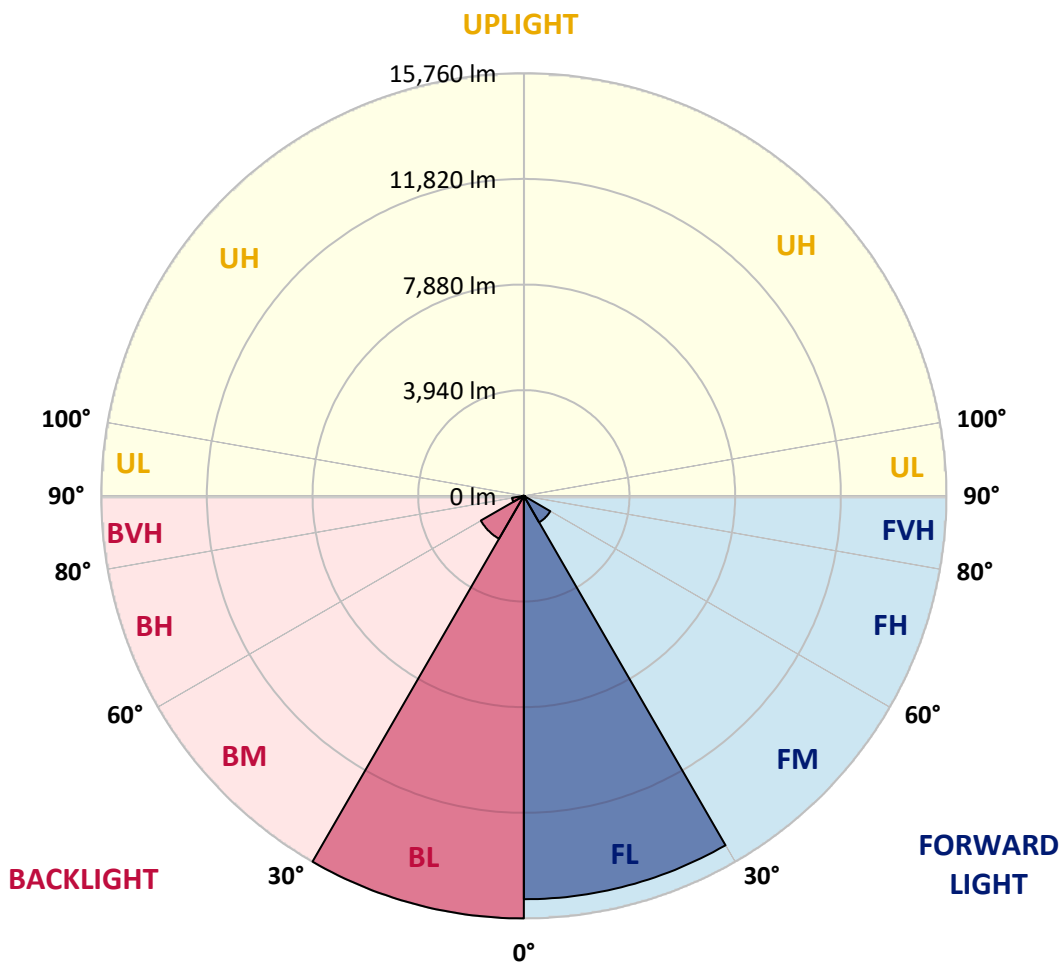


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	15043.9	43.8			
FM (30°-60°)	1139.3	3.3			
FH (60°-80°)	46.4	0.1			G0/660
FVH (80°-90°)	7.5	0.0			G0/10
BL (0°-30°)	15760.0	45.9	B5		
BM (30°-60°)	1850.7	5.4	B2/2500		
BH (60°-80°)	445.7	1.3	B1/500		G0/660
BVH (80°-90°)	53.8	0.2			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°	121024.8	121024.8	121024.8	121024.8	121024.8	121024.8	121024.8	121024.8	121024.8	121024.8
2.5°	117499.3	117564.9	117321.9	117846.5	117437.6	118533.1	117989.2	118837.8	118552.3	119026.8
5°	109476.3	109368.3	109298.8	110112.7	109877.4	111053.9	110301.7	110054.8	110818.6	110679.7
7.5°	97360.7	97646.1	97484.1	97696.2	97815.8	99158.1	99582.4	99250.7	99262.3	99455.1
10°	84940.3	84519.9	83922.0	84319.3	85160.2	85746.5	85511.2	85997.2	85889.2	86348.2
12.5°	69657.9	69989.7	69654.1	69299.2	70768.8	70606.8	71015.7	71281.8	70614.5	72099.6
15°	52470.1	52643.6	53052.5	53025.5	54155.7	54383.3	54329.3	54610.8	54090.1	54337.0
17.5°	33708.4	34294.7	35394.1	37253.2	39343.9	39586.9	39525.2	39293.7	39043.0	38765.3
20°	22642.0	22580.3	22977.6	23521.5	27849.3	28994.9	28960.2	28235.0	27185.8	26985.3
22.5°	15861.0	15976.7	15922.7	16462.7	17357.6	20516.7	20127.1	19390.4	19047.1	18823.3
25°	10433.8	10391.4	10661.4	10823.4	11591.0	11976.7	13342.2	13068.3	12539.9	12597.8
27.5°	6360.6	6414.6	6514.9	6653.7	7197.6	7074.2	7853.3	7957.5	7787.8	7606.5
30°	3903.5	3942.1	4023.1	4123.4	4312.4	4177.4	4393.4	4767.6	4705.8	4578.5
32.5°	2649.9	2653.8	2711.6	2750.2	2727.1	2599.8	2669.2	3024.1	3031.8	3020.2
35°	1905.5	1905.5	1959.5	1990.3	1924.8	1820.6	1832.2	2052.1	2148.5	2167.8
37.5°	1315.3	1319.2	1411.8	1504.3	1431.0	1404.0	1357.7	1504.3	1658.6	1681.8
40°	999.0	995.2	1041.5	1110.9	1118.6	1068.5	1083.9	1176.5	1334.6	1353.9
42.5°	810.0	813.9	837.0	829.3	833.2	898.7	921.9	964.3	1110.9	1145.6
45°	682.7	686.6	698.2	659.6	644.2	744.4	775.3	798.4	921.9	964.3
47.5°	563.2	570.9	582.4	540.0	532.3	597.9	651.9	675.0	783.0	829.3
50°	405.0	412.7	455.2	432.0	455.2	470.6	543.9	578.6	651.9	713.6
52.5°	293.2	300.9	312.4	316.3	374.2	381.9	435.9	489.9	524.6	594.0
55°	231.4	239.1	231.4	223.7	273.9	316.3	335.6	393.4	420.4	501.4
57.5°	131.1	138.9	150.4	173.6	181.3	243.0	262.3	312.4	335.6	412.7
60°	23.1	27.0	42.4	104.1	127.3	154.3	196.7	239.1	270.0	324.0
62.5°	3.9	3.9	7.7	23.1	73.3	108.0	142.7	169.7	196.7	246.9
65°	0.0	0.0	3.9	7.7	19.3	61.7	77.1	100.3	135.0	177.4
67.5°	0.0	0.0	3.9	7.7	11.6	23.1	34.7	61.7	77.1	119.6
70°	0.0	0.0	3.9	7.7	11.6	15.4	19.3	27.0	46.3	73.3
72.5°	0.0	0.0	3.9	7.7	11.6	15.4	19.3	23.1	23.1	46.3
75°	0.0	0.0	3.9	7.7	11.6	19.3	23.1	23.1	19.3	19.3
77.5°	0.0	0.0	3.9	7.7	15.4	23.1	27.0	23.1	15.4	15.4
80°	0.0	0.0	7.7	11.6	19.3	27.0	34.7	27.0	15.4	7.7
82.5°	0.0	0.0	7.7	15.4	19.3	30.9	42.4	34.7	15.4	7.7
85°	0.0	0.0	3.9	11.6	23.1	30.9	42.4	30.9	15.4	3.9
87.5°	0.0	0.0	3.9	3.9	7.7	11.6	23.1	19.3	7.7	3.9
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°
<b>121024.8</b>	0°	<b>121024.8</b>	<b>121024.8</b>	<b>121024.8</b>	<b>121024.8</b>	<b>121024.8</b>	<b>121024.8</b>	<b>121024.8</b>	<b>121024.8</b>	<b>121024.8</b>
118128.1	2.5°	118806.9	119424.1	119551.4	119381.7	119628.5	119184.9	118845.5	117966.0	117437.6
110637.3	5°	111350.9	111258.3	111902.5	112114.6	112087.6	111748.2	111273.7	110741.4	110224.6
99081.0	7.5°	99698.1	99817.7	100404.0	100778.2	100589.2	100164.9	99837.0	99435.9	99088.7
86514.1	10°	87304.8	86483.2	87212.3	87212.3	87717.6	86517.9	86629.8	85619.2	85665.5
72072.6	12.5°	72319.4	72616.4	72736.0	73079.3	72489.2	71852.7	71073.6	70919.3	70437.1
53866.4	15°	54641.7	55490.3	54761.3	56007.2	55405.4	54742.0	54622.4	53426.7	53804.7
39070.0	17.5°	38877.1	39814.5	40107.6	40821.2	40273.5	39880.0	39382.4	39019.9	38992.9
27351.7	20°	27567.7	28508.9	28724.9	29581.2	29519.5	29396.0	28975.6	28516.6	28019.0
18618.9	22.5°	18900.5	19668.1	20385.5	21538.8	21519.6	21157.0	21114.5	20466.5	20478.1
12578.5	25°	12709.6	13268.9	13438.6	14618.9	14750.1	14711.5	14491.7	13889.9	14117.5
7683.6	27.5°	7691.3	8181.2	8755.9	9172.5	9566.0	9504.2	9284.4	8948.8	8802.2
4617.1	30°	4740.6	4960.4	5172.6	5674.0	5909.3	6032.7	5928.6	5616.1	5639.3
3039.5	32.5°	3105.1	3290.2	3444.5	3760.8	3884.2	4111.8	4069.4	4003.8	3926.7
2187.1	35°	2264.2	2399.2	2503.4	2649.9	2808.1	3000.9	3031.8	3004.8	2973.9
1689.5	37.5°	1728.0	1866.9	1986.5	2048.2	2171.6	2322.1	2406.9	2403.1	2379.9
1377.0	40°	1404.0	1508.2	1616.2	1697.2	1782.0	1893.9	1998.1	2009.6	2009.6
1157.2	42.5°	1172.6	1261.3	1369.3	1454.2	1515.9	1620.0	1728.0	1735.8	1728.0
979.7	45°	1002.9	1080.0	1184.2	1284.5	1334.6	1411.8	1515.9	1539.0	1523.6
840.9	47.5°	871.7	941.2	1029.9	1137.9	1191.9	1261.3	1357.7	1384.8	1380.9
725.2	50°	748.3	829.3	918.0	1006.7	1076.2	1141.7	1234.3	1265.2	1253.6
617.2	52.5°	659.6	732.9	810.0	906.5	987.5	1045.3	1118.6	1172.6	1157.2
520.7	55°	551.6	640.3	721.3	802.3	902.6	964.3	1033.7	1099.3	1083.9
439.7	57.5°	478.3	551.6	644.2	717.4	817.7	891.0	960.5	1029.9	1026.0
358.7	60°	401.2	478.3	567.0	644.2	736.7	817.7	887.2	964.3	972.0
270.0	62.5°	316.3	408.9	486.0	574.7	667.3	756.0	817.7	894.9	906.5
204.4	65°	239.1	335.6	420.4	505.3	597.9	694.3	748.3	813.9	825.4
150.4	67.5°	177.4	258.4	358.7	435.9	532.3	624.9	675.0	729.0	748.3
92.6	70°	135.0	196.7	300.9	374.2	474.4	547.7	601.7	648.0	663.4
61.7	72.5°	84.9	154.3	243.0	320.2	408.9	474.4	513.0	540.0	563.2
34.7	75°	57.9	119.6	196.7	273.9	339.4	389.6	424.3	447.4	466.7
15.4	77.5°	34.7	92.6	162.0	227.6	270.0	308.6	343.3	358.7	370.3
11.6	80°	19.3	69.4	135.0	185.1	212.1	239.1	266.1	285.4	293.2
7.7	82.5°	11.6	54.0	108.0	142.7	154.3	181.3	208.3	219.9	219.9
3.9	85°	7.7	38.6	73.3	104.1	111.9	131.1	138.9	146.6	154.3
3.9	87.5°	7.7	23.1	46.3	57.9	61.7	69.4	73.3	81.0	88.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
121024.8  
117048.0  
109646.0  
97912.2  
85214.2  
69997.4  
53426.7  
38275.4  
27803.0  
20254.4  
13758.8  
8674.9  
5539.0  
3899.7  
2962.4  
2368.3  
1986.5  
1720.3  
1523.6  
1373.2  
1245.9  
1153.3  
1091.6  
1029.9  
975.9  
914.2  
837.0  
756.0  
671.2  
559.3  
462.9  
366.4  
285.4  
216.0  
150.4  
84.9  
0.0

(END OF REPORT)