

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: P638533

Luminaire Tested: **IFLD-L-SA8C-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638533  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27449.5 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

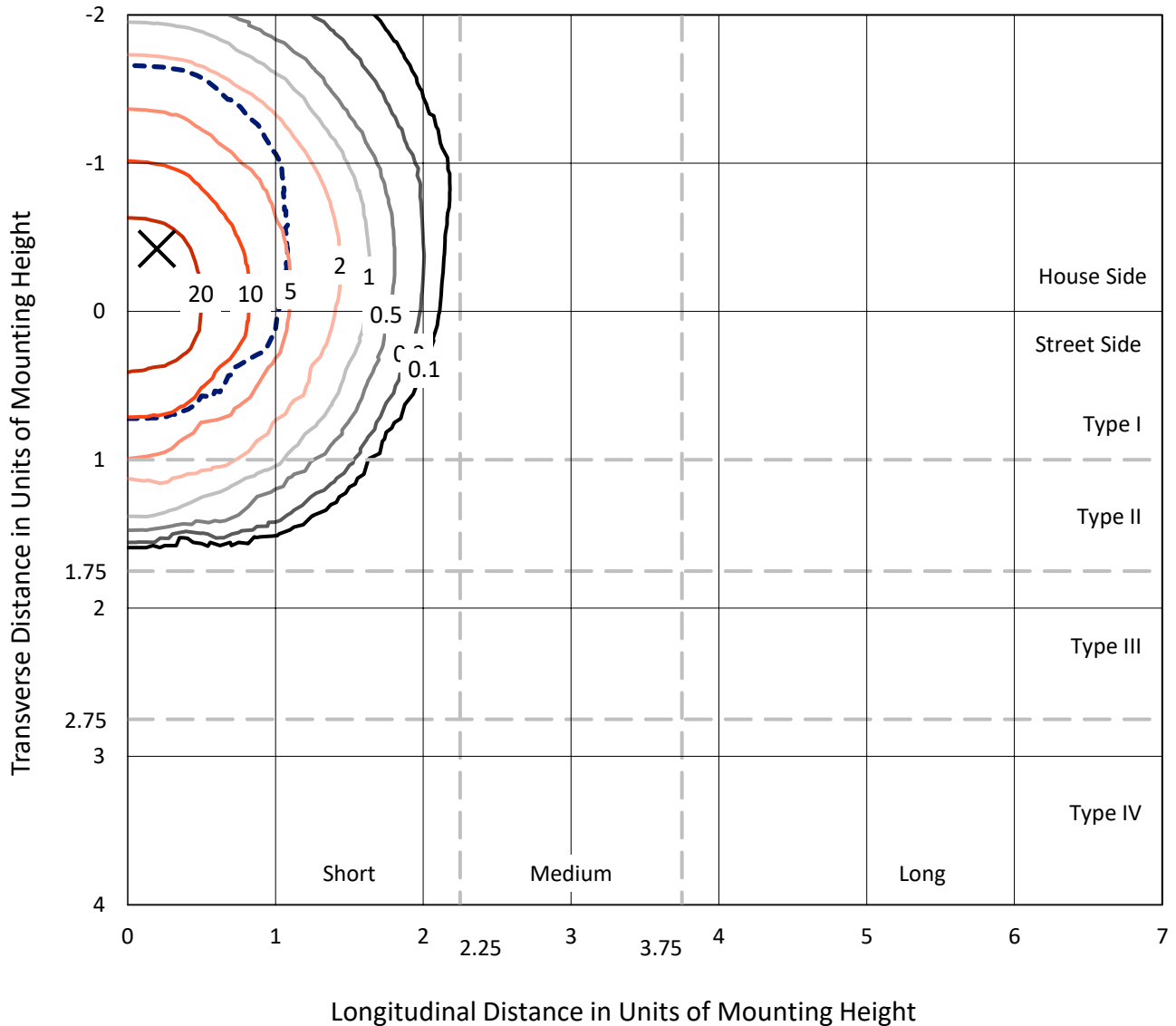
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

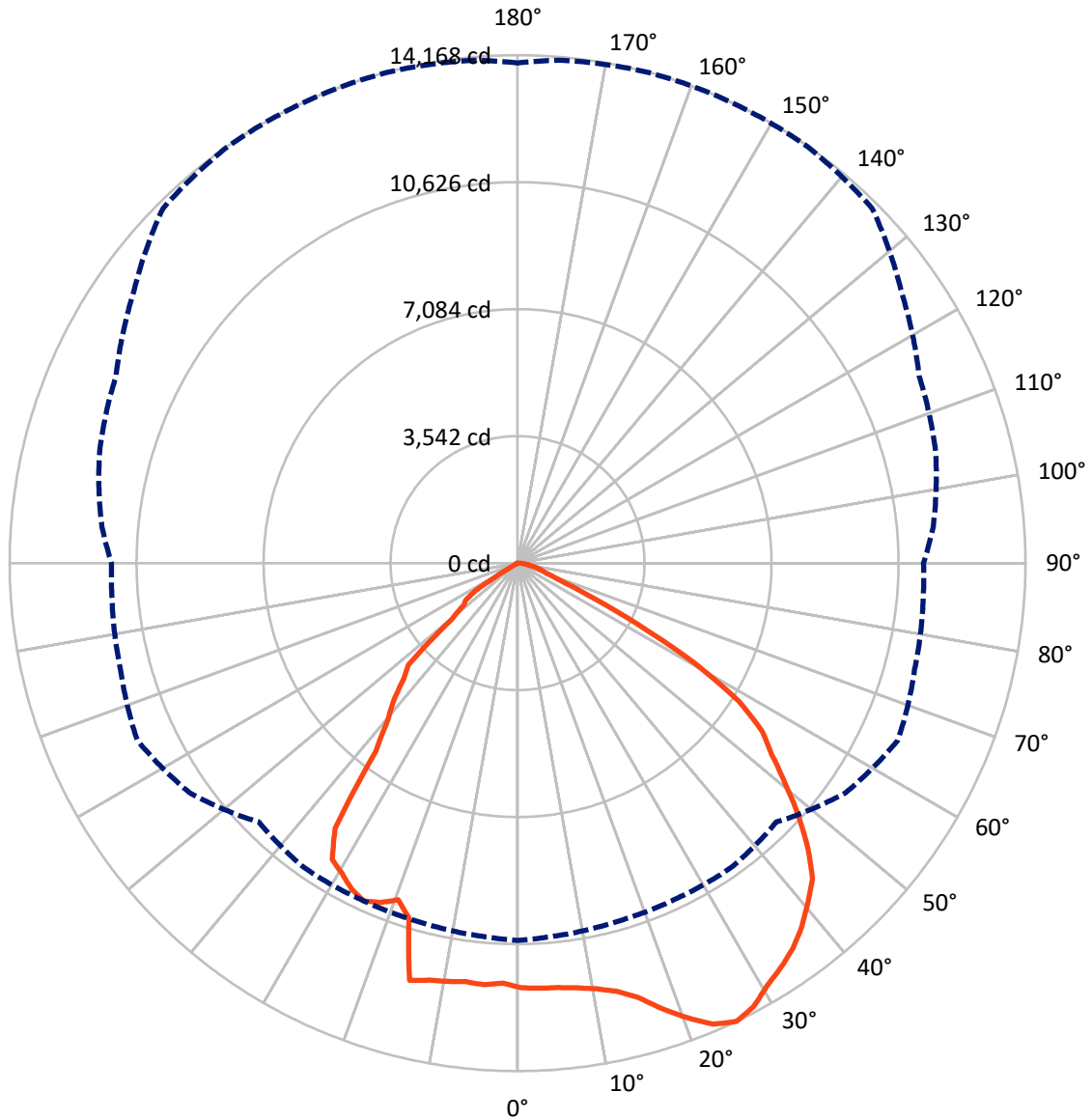
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.6 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16994.1	0.0	16994.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	10455.4	0.0	10455.4
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	27449.5	0.0	27449.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1136.3	4.1
10°-20°	3469.6	12.6
20°-30°	5485.2	20.0
30°-40°	6196.0	22.6
40°-50°	5802.7	21.1
50°-60°	4000.5	14.6
60°-70°	1074.8	3.9
70°-80°	224.0	0.8
80°-90°	60.6	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°	27449.5	100.0
0°-180°	27449.5	100.0



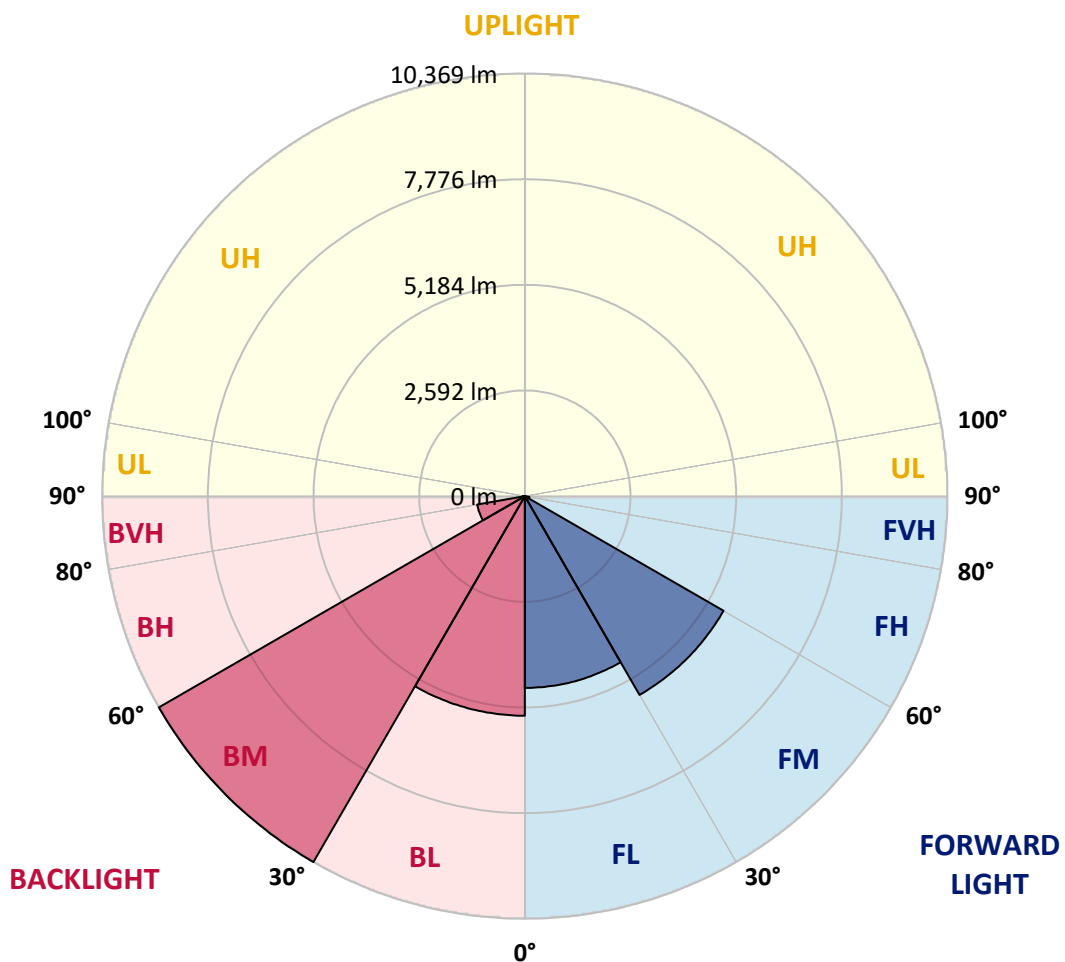
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4704.0	17.1			
FM (30°-60°)	5630.5	20.5			
FH (60°-80°)	112.8	0.4			G0/660
FVH (80°-90°)	8.1	0.0			G0/10
BL (0°-30°)	5387.0	19.6	B5		
BM (30°-60°)	10368.6	37.8	B5		
BH (60°-80°)	1186.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	52.5	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-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11844.0	11844.0	11844.0	11844.0	11844.0	11844.0	11844.0	11844.0	11844.0	11844.0
2.5°	11896.4	11819.8	11747.2	11723.0	11823.8	11932.7	11864.1	11868.2	11844.0	11888.4
5°	11985.2	11880.3	11831.9	11795.6	11811.7	11924.7	11827.8	11864.1	11823.8	11876.3
7.5°	11952.9	11880.3	11831.9	11763.3	11815.7	11948.9	11856.1	11860.1	11839.9	11888.4
10°	11932.7	11880.3	11819.8	11827.8	11888.4	12001.3	11928.7	11969.0	11940.8	11969.0
12.5°	11981.1	11924.7	11892.4	11892.4	11944.8	12073.9	12037.6	12073.9	12061.8	12086.0
15°	11525.3	11577.7	11884.3	12021.5	12126.4	12255.5	12239.3	12275.6	12283.7	12320.0
17.5°	9722.1	9669.6	9645.4	10351.4	12227.2	12626.6	12614.5	12610.4	12570.1	12541.9
20°	9960.1	9939.9	9911.7	9964.1	10173.9	12820.2	12900.9	12404.7	12259.5	12247.4
22.5°	10339.3	10307.0	10202.1	10206.2	10270.7	11146.1	12501.5	12049.7	12001.3	11973.1
25°	10524.8	10460.3	10375.6	10351.4	10371.5	10210.2	11166.3	11702.8	11464.8	11355.9
27.5°	10198.1	10202.1	10133.5	10198.1	10121.4	9395.3	8987.9	11025.1	11017.0	10968.6
30°	9952.0	9939.9	9859.2	9939.9	9411.4	8600.6	8427.1	10282.8	10198.1	10133.5
32.5°	9197.6	9205.7	9439.7	9754.3	8887.0	8245.6	7721.2	9185.5	9988.3	9952.0
35°	6579.5	6595.7	7426.7	8979.8	8092.3	7539.6	7499.3	7939.0	9657.5	9673.7
37.5°	6333.5	6333.5	6313.3	6567.4	7467.0	7253.2	7333.9	7289.5	8846.7	8887.0
40°	6156.0	6119.7	6091.4	5692.0	5191.8	7051.5	7108.0	6906.3	8362.6	8370.7
42.5°	5942.2	5901.8	5909.9	5171.7	4647.2	6551.3	6394.0	6123.7	7555.8	7563.8
45°	5550.9	5619.4	5667.8	4526.2	4485.9	4679.5	5897.8	5728.4	7011.2	7160.4
47.5°	2823.8	2884.3	4425.4	4163.1	4255.9	4159.1	4982.1	4986.1	5833.2	6329.4
50°	2561.6	2545.5	2549.5	2428.5	3929.2	3364.4	3602.4	4570.6	4671.4	5381.4
52.5°	2388.2	2384.1	2138.0	1900.0	2468.8	2961.0	2614.1	3307.9	3473.3	4558.5
55°	1766.9	1896.0	1686.2	1787.1	1545.0	2372.0	2359.9	2985.2	3041.7	3654.9
57.5°	16.1	20.2	48.4	1359.5	1069.0	1186.0	1629.8	2037.2	2138.0	2848.0
60°	4.0	8.1	20.2	40.3	693.9	730.2	1089.2	1177.9	1327.2	1698.3
62.5°	0.0	0.0	8.1	20.2	36.3	298.5	346.9	379.2	584.9	867.3
65°	0.0	0.0	4.0	12.1	20.2	48.4	84.7	177.5	254.1	314.7
67.5°	0.0	0.0	4.0	8.1	16.1	24.2	48.4	68.6	108.9	185.6
70°	0.0	0.0	4.0	8.1	12.1	20.2	32.3	48.4	64.5	92.8
72.5°	0.0	0.0	4.0	8.1	8.1	24.2	24.2	36.3	48.4	60.5
75°	0.0	0.0	4.0	4.0	8.1	16.1	24.2	28.2	32.3	48.4
77.5°	0.0	0.0	4.0	8.1	12.1	16.1	20.2	32.3	28.2	28.2
80°	0.0	0.0	4.0	12.1	12.1	20.2	24.2	32.3	20.2	20.2
82.5°	0.0	0.0	4.0	16.1	12.1	40.3	40.3	44.4	16.1	16.1
85°	0.0	0.0	12.1	8.1	24.2	40.3	36.3	24.2	20.2	12.1
87.5°	0.0	0.0	4.0	4.0	8.1	12.1	28.2	24.2	8.1	8.1
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°
11844.0	0°	11844.0	11844.0	11844.0	11844.0	11844.0	11844.0	11844.0	11844.0	11844.0
11771.4	2.5°	11932.7	11880.3	11989.2	11977.1	11924.7	11900.5	11872.2	11848.0	11670.5
11779.4	5°	11936.8	11856.1	11989.2	11965.0	11956.9	11916.6	11892.4	11928.7	11767.3
11811.7	7.5°	11936.8	11856.1	12001.3	12009.4	11997.3	11965.0	11961.0	11985.2	11852.0
11868.2	10°	12017.4	11985.2	12106.2	12118.3	12102.2	12094.1	12073.9	12057.8	11916.6
12061.8	12.5°	12186.9	12122.3	12259.5	12295.8	12283.7	12303.9	12255.5	12279.7	12134.4
12259.5	15°	12392.6	12396.6	12501.5	12582.2	12574.1	12638.7	12566.1	12630.6	12525.7
12485.4	17.5°	12707.3	12751.6	12900.9	13021.9	13066.3	13114.7	13066.3	13086.5	12937.2
12235.3	20°	12376.5	12541.9	13259.9	13481.8	13574.6	13619.0	13538.3	13562.5	13413.2
11928.7	22.5°	12078.0	12291.8	12929.1	13623.0	13909.4	13998.2	13969.9	13965.9	13909.4
11323.6	25°	11638.2	12069.9	12356.3	13090.5	13990.1	14151.5	14167.6	14163.6	14078.8
10952.5	27.5°	11097.7	11194.5	11936.8	12384.5	13425.3	14038.5	14014.3	13897.3	13784.4
10181.9	30°	10407.9	10847.6	11182.4	11896.4	12695.2	13691.6	13691.6	13602.8	13485.8
9907.6	32.5°	10056.9	10625.7	10936.3	11194.5	11876.3	13304.3	13465.7	13372.9	13280.1
9693.8	35°	9871.3	9956.0	10682.2	10916.1	11493.0	12558.0	13211.5	13118.7	13050.2
9125.0	37.5°	9463.9	9661.6	10000.4	10625.7	10803.2	11948.9	12872.7	12824.3	12743.6
8386.8	40°	8556.2	9084.7	9605.1	10198.1	10383.7	11166.3	12461.2	12481.4	12372.4
7600.2	42.5°	8019.7	8378.7	9193.6	9593.0	10093.2	10662.0	12061.8	12094.1	12017.4
7200.8	45°	7390.4	7789.8	8362.6	9088.7	9770.5	9968.1	11355.9	11694.7	11630.2
6406.1	47.5°	6813.5	7136.2	7838.2	8572.4	9326.7	9298.5	10545.0	11182.4	11093.6
5796.9	50°	5994.6	6559.4	6890.2	7563.8	8689.3	8766.0	9681.7	10581.3	10508.7
4925.6	52.5°	5054.7	5764.7	6398.0	7015.2	8043.9	8225.4	8878.9	9968.1	9919.7
3763.8	55°	4417.3	4933.6	5647.7	6143.9	7261.3	7745.4	8277.9	9383.2	9359.0
3094.1	57.5°	3142.5	4138.9	4727.9	5421.8	6010.7	6886.1	7281.5	8193.2	7967.3
1714.5	60°	2130.0	2597.9	3316.0	4062.3	4457.6	5333.0	5700.1	6430.3	6369.8
1024.6	62.5°	1125.5	1557.1	2069.5	2444.6	2731.1	3582.2	3735.5	4522.2	4502.0
411.5	65°	496.2	657.6	1121.5	1315.1	1609.6	2004.9	2138.0	2420.4	2351.9
201.7	67.5°	258.2	391.3	633.3	778.6	980.3	1129.5	1238.5	1327.2	1383.7
133.1	70°	157.3	286.4	391.3	540.6	673.7	794.7	879.4	1000.4	1073.1
68.6	72.5°	117.0	181.5	270.3	415.5	488.1	629.3	714.0	802.8	867.3
56.5	75°	64.5	121.0	217.8	326.8	391.3	512.3	589.0	649.5	669.7
32.3	77.5°	40.3	92.8	181.5	254.1	306.6	415.5	395.3	451.8	500.2
24.2	80°	28.2	68.6	141.2	209.8	213.8	266.2	314.7	363.1	395.3
16.1	82.5°	20.2	56.5	104.9	161.4	141.2	205.7	246.1	282.4	205.7
12.1	85°	16.1	40.3	52.4	96.8	80.7	145.2	125.1	121.0	80.7
8.1	87.5°	12.1	20.2	36.3	44.4	32.3	32.3	40.3	48.4	40.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
11844.0
11549.5
11630.2
11698.8
11799.6
12005.3
12352.3
12808.1
13308.3
13727.9
13949.8
13695.6
13441.5
13203.5
12953.3
12662.9
12348.2
12009.4
11638.2
11158.2
10520.8
9952.0
9387.2
7943.0
6373.8
4506.0
2323.6
1383.7
1077.1
879.4
657.6
508.3
399.4
149.3
80.7
40.3
0.0

(END OF REPORT)