

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: P638380

Luminaire Tested: **IFLD-M-SA4E-730-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638380  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-730-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24298.6 lumens  
Efficiency: N/A  
Efficacy: 77.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

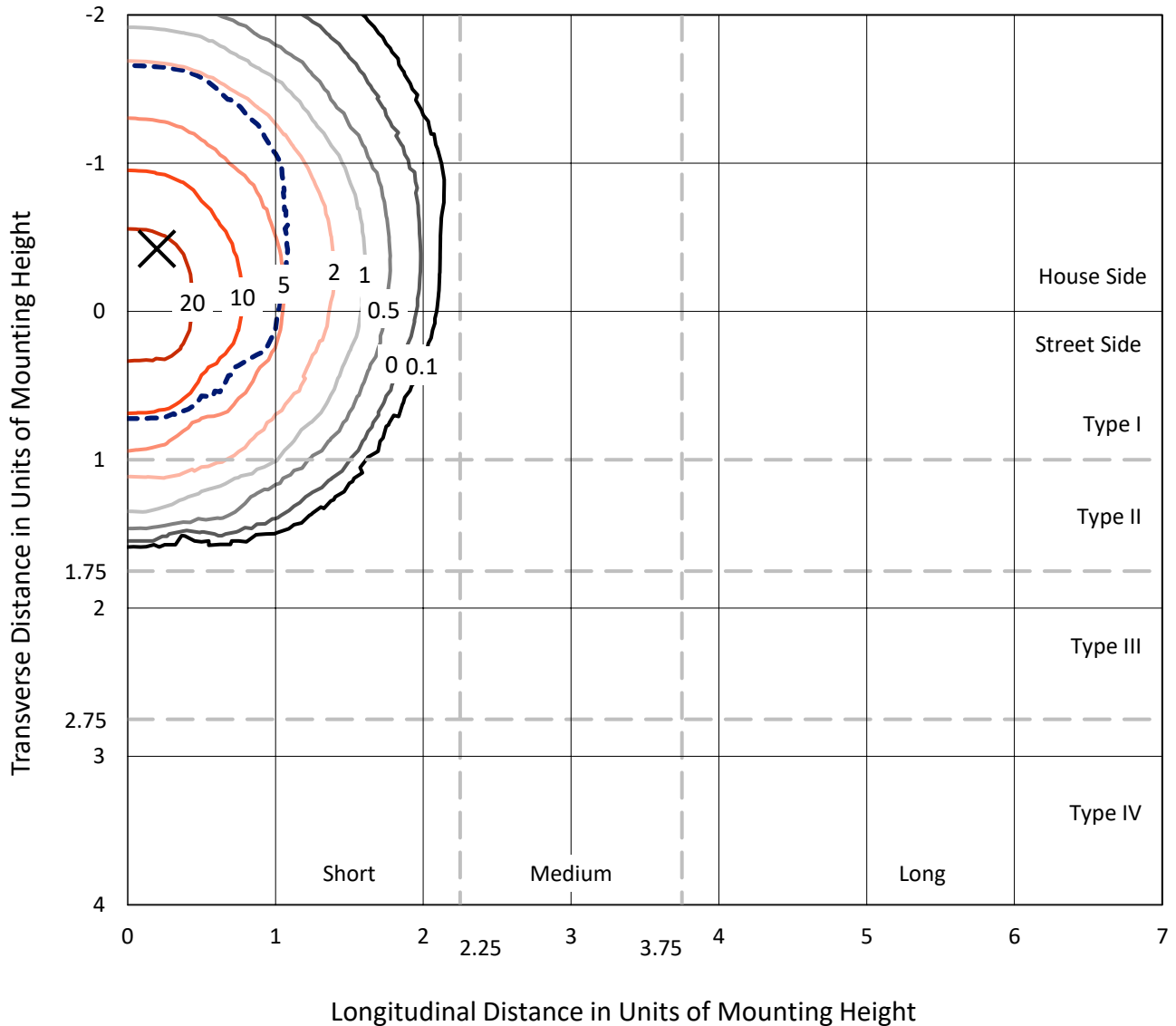
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

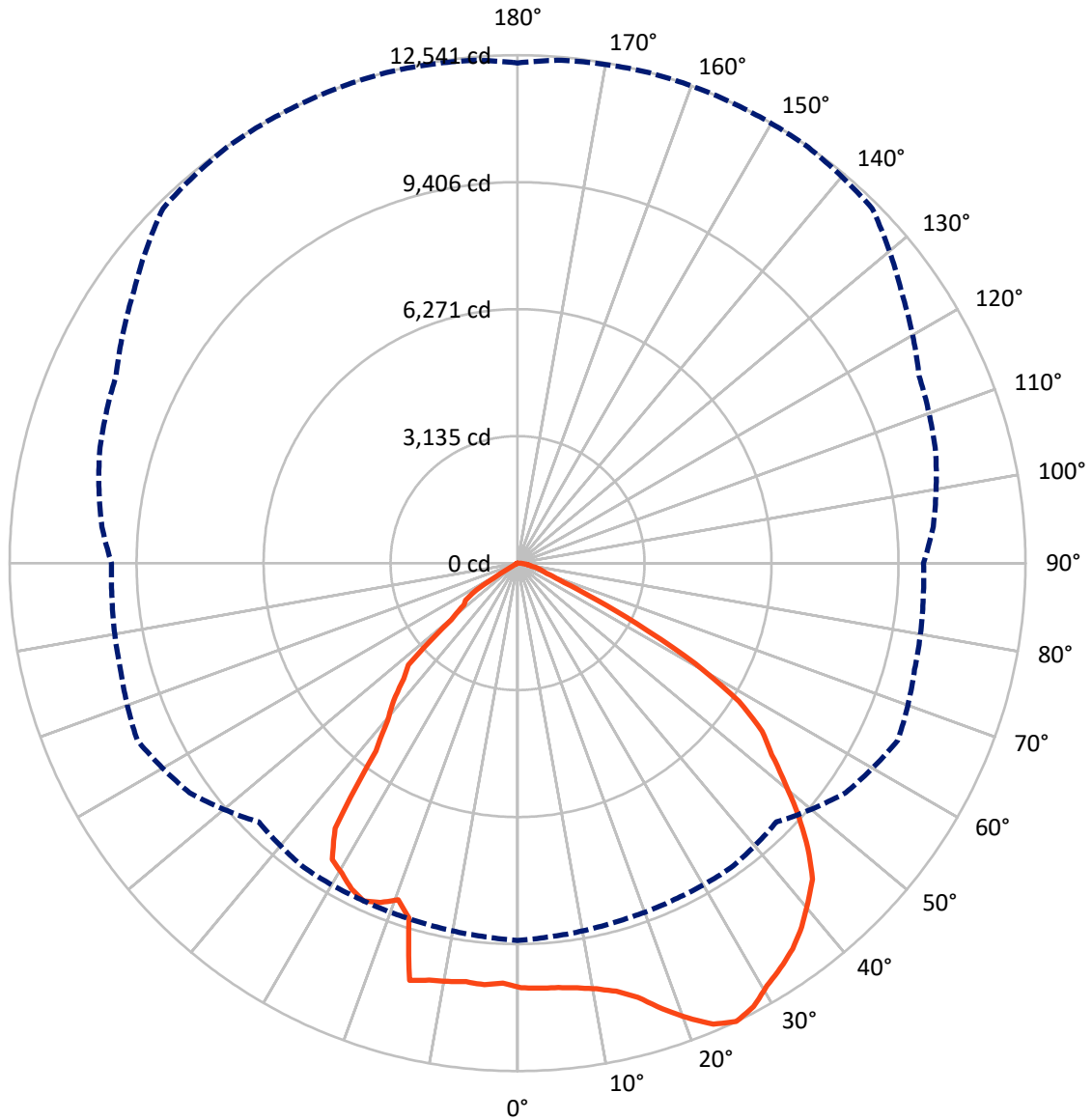
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.2 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	15043.3	0.0	15043.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	9255.3	0.0	9255.3
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	24298.6	0.0	24298.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1005.8	4.1
10°-20°	3071.3	12.6
20°-30°	4855.5	20.0
30°-40°	5484.7	22.6
40°-50°	5136.6	21.1
50°-60°	3541.3	14.6
60°-70°	951.4	3.9
70°-80°	198.3	0.8
80°-90°	53.6	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°	24298.6	100.0
0°-180°	24298.6	100.0



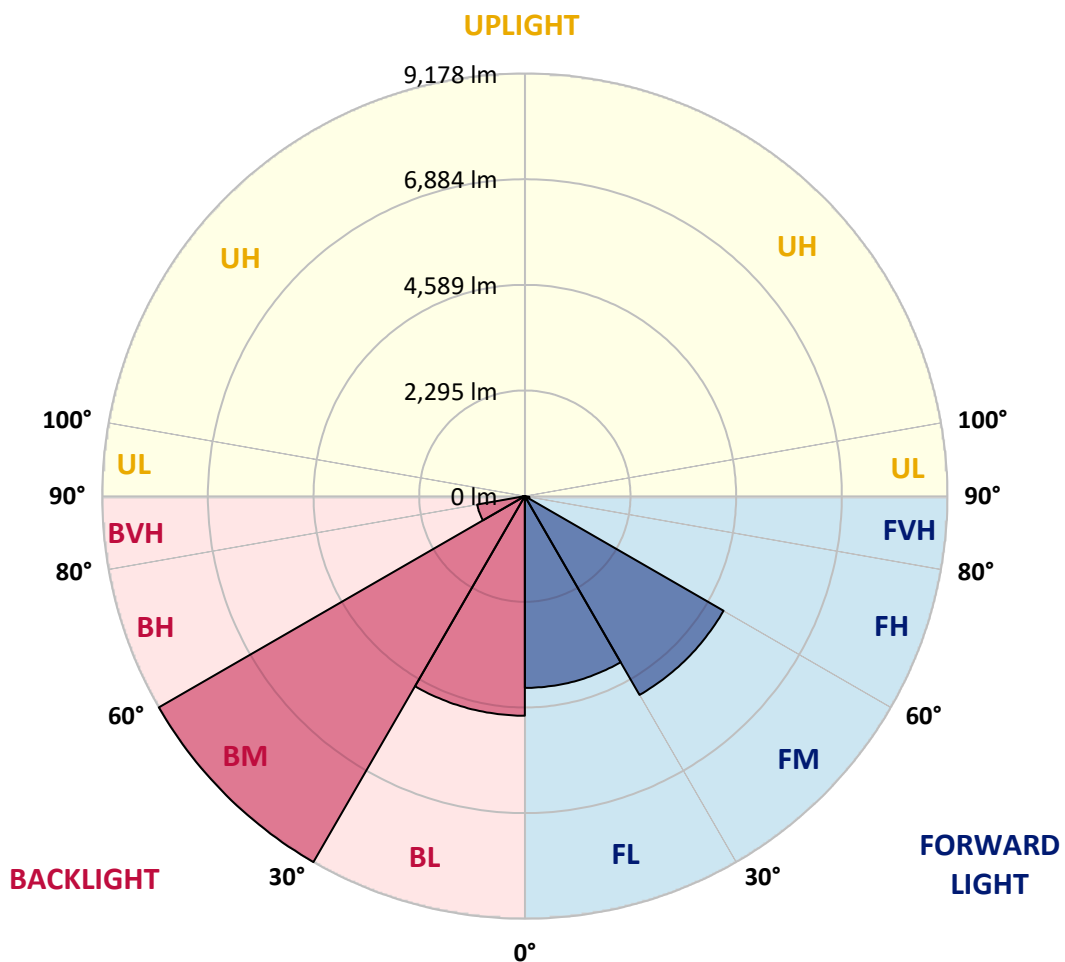
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4164.0	17.1			
FM (30°-60°)	4984.2	20.5			
FH (60°-80°)	99.9	0.4			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	4768.6	19.6	B4/5000		
BM (30°-60°)	9178.4	37.8	B5		
BH (60°-80°)	1049.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	46.4	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°	10484.4	10484.4	10484.4	10484.4	10484.4	10484.4	10484.4	10484.4	10484.4	10484.4
2.5°	10530.8	10463.0	10398.7	10377.3	10466.5	10563.0	10502.2	10505.8	10484.4	10523.7
5°	10609.4	10516.5	10473.7	10441.5	10455.8	10555.8	10470.1	10502.2	10466.5	10513.0
7.5°	10580.8	10516.5	10473.7	10413.0	10459.4	10577.2	10495.1	10498.7	10480.8	10523.7
10°	10563.0	10516.5	10463.0	10470.1	10523.7	10623.7	10559.4	10595.1	10570.1	10595.1
12.5°	10605.8	10555.8	10527.2	10527.2	10573.7	10687.9	10655.8	10687.9	10677.2	10698.6
15°	10202.3	10248.7	10520.1	10641.5	10734.4	10848.6	10834.3	10866.5	10873.6	10905.8
17.5°	8606.1	8559.6	8538.2	9163.1	10823.6	11177.2	11166.4	11162.9	11127.2	11102.2
20°	8816.7	8798.9	8773.9	8820.3	9006.0	11348.6	11420.0	10980.8	10852.2	10841.5
22.5°	9152.4	9123.8	9031.0	9034.6	9091.7	9866.6	11066.5	10666.5	10623.7	10598.7
25°	9316.7	9259.5	9184.6	9163.1	9181.0	9038.1	9884.5	10359.4	10148.7	10052.3
27.5°	9027.4	9031.0	8970.3	9027.4	8959.6	8316.8	7956.1	9759.5	9752.3	9709.5
30°	8809.6	8798.9	8727.5	8798.9	8331.1	7613.3	7459.8	9102.4	9027.4	8970.3
32.5°	8141.8	8149.0	8356.1	8634.6	7866.9	7299.1	6834.9	8131.1	8841.7	8809.6
35°	5824.3	5838.5	6574.2	7949.0	7163.4	6674.2	6638.4	7027.7	8548.9	8563.2
37.5°	5606.4	5606.4	5588.6	5813.6	6609.9	6420.6	6492.0	6452.8	7831.2	7866.9
40°	5449.3	5417.2	5392.2	5038.6	4595.8	6242.1	6292.1	6113.5	7402.6	7409.8
42.5°	5260.1	5224.3	5231.5	4578.0	4113.8	5799.3	5660.0	5420.7	6688.4	6695.6
45°	4913.7	4974.4	5017.2	4006.6	3970.9	4142.3	5220.8	5070.8	6206.4	6338.5
47.5°	2499.7	2553.2	3917.4	3685.2	3767.4	3681.7	4410.2	4413.7	5163.6	5602.9
50°	2267.6	2253.3	2256.9	2149.7	3478.1	2978.2	3188.9	4045.9	4135.2	4763.7
52.5°	2114.0	2110.4	1892.6	1681.9	2185.4	2621.1	2314.0	2928.2	3074.6	4035.2
55°	1564.1	1678.4	1492.7	1581.9	1367.7	2099.7	2089.0	2642.5	2692.5	3235.3
57.5°	14.3	17.9	42.9	1203.4	946.3	1049.9	1442.7	1803.3	1892.6	2521.1
60°	3.6	7.1	17.9	35.7	614.2	646.3	964.2	1042.7	1174.9	1503.4
62.5°	0.0	0.0	7.1	17.9	32.1	264.3	307.1	335.7	517.8	767.8
65°	0.0	0.0	3.6	10.7	17.9	42.9	75.0	157.1	225.0	278.5
67.5°	0.0	0.0	3.6	7.1	14.3	21.4	42.9	60.7	96.4	164.3
70°	0.0	0.0	3.6	7.1	10.7	17.9	28.6	42.9	57.1	82.1
72.5°	0.0	0.0	3.6	7.1	7.1	21.4	21.4	32.1	42.9	53.6
75°	0.0	0.0	3.6	3.6	7.1	14.3	21.4	25.0	28.6	42.9
77.5°	0.0	0.0	3.6	7.1	10.7	14.3	17.9	28.6	25.0	25.0
80°	0.0	0.0	3.6	10.7	10.7	17.9	21.4	28.6	17.9	17.9
82.5°	0.0	0.0	3.6	14.3	10.7	35.7	35.7	39.3	14.3	14.3
85°	0.0	0.0	10.7	7.1	21.4	35.7	32.1	21.4	17.9	10.7
87.5°	0.0	0.0	3.6	3.6	7.1	10.7	25.0	21.4	7.1	7.1
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°
10484.4	0°	10484.4	10484.4	10484.4	10484.4	10484.4	10484.4	10484.4	10484.4	10484.4
10420.1	2.5°	10563.0	10516.5	10612.9	10602.2	10555.8	10534.4	10509.4	10488.0	10330.8
10427.3	5°	10566.5	10495.1	10612.9	10591.5	10584.4	10548.7	10527.2	10559.4	10416.5
10455.8	7.5°	10566.5	10495.1	10623.7	10630.8	10620.1	10591.5	10587.9	10609.4	10491.5
10505.8	10°	10637.9	10609.4	10716.5	10727.2	10712.9	10705.8	10687.9	10673.7	10548.7
10677.2	12.5°	10787.9	10730.8	10852.2	10884.3	10873.6	10891.5	10848.6	10870.1	10741.5
10852.2	15°	10970.0	10973.6	11066.5	11137.9	11130.7	11187.9	11123.6	11180.7	11087.9
11052.2	17.5°	11248.6	11287.9	11420.0	11527.1	11566.4	11609.2	11566.4	11584.3	11452.1
10830.8	20°	10955.8	11102.2	11737.8	11934.2	12016.3	12055.6	11984.2	12005.6	11873.5
10559.4	22.5°	10691.5	10880.8	11445.0	12059.2	12312.7	12391.3	12366.3	12362.7	12312.7
10023.7	25°	10302.3	10684.4	10937.9	11587.8	12384.2	12527.0	12541.3	12537.7	12462.7
9695.2	27.5°	9823.8	9909.5	10566.5	10962.9	11884.2	12427.0	12405.6	12302.0	12202.0
9013.1	30°	9213.1	9602.4	9898.8	10530.8	11237.9	12119.9	12119.9	12041.3	11937.8
8770.3	32.5°	8902.4	9406.0	9680.9	9909.5	10513.0	11777.1	11919.9	11837.8	11755.7
8581.1	35°	8738.2	8813.2	9455.9	9663.1	10173.7	11116.5	11695.0	11612.8	11552.1
8077.6	37.5°	8377.5	8552.5	8852.5	9406.0	9563.1	10577.2	11395.0	11352.1	11280.7
7424.1	40°	7574.0	8041.8	8502.5	9027.4	9191.7	9884.5	11030.8	11048.6	10952.2
6727.7	42.5°	7099.1	7416.9	8138.3	8491.8	8934.6	9438.1	10677.2	10705.8	10637.9
6374.2	45°	6542.0	6895.6	7402.6	8045.4	8648.9	8823.9	10052.3	10352.3	10295.1
5670.7	47.5°	6031.4	6317.1	6938.4	7588.3	8256.1	8231.1	9334.5	9898.8	9820.2
5131.5	50°	5306.5	5806.4	6099.2	6695.6	7691.9	7759.7	8570.3	9366.7	9302.4
4360.2	52.5°	4474.4	5102.9	5663.6	6209.9	7120.5	7281.2	7859.7	8823.9	8781.0
3331.7	55°	3910.2	4367.3	4999.4	5438.6	6427.8	6856.3	7327.6	8306.1	8284.7
2738.9	57.5°	2781.8	3663.8	4185.2	4799.4	5320.8	6095.7	6445.6	7252.7	7052.7
1517.7	60°	1885.5	2299.7	2935.3	3596.0	3945.9	4720.8	5045.8	5692.1	5638.6
907.0	62.5°	996.3	1378.4	1831.9	2164.0	2417.6	3171.0	3306.7	4003.1	3985.2
364.2	65°	439.2	582.1	992.7	1164.1	1424.8	1774.8	1892.6	2142.6	2081.9
178.5	67.5°	228.5	346.4	560.6	689.2	867.7	999.9	1096.3	1174.9	1224.8
117.8	70°	139.3	253.5	346.4	478.5	596.4	703.5	778.5	885.6	949.9
60.7	72.5°	103.6	160.7	239.3	367.8	432.1	557.1	632.1	710.6	767.8
50.0	75°	57.1	107.1	192.8	289.2	346.4	453.5	521.4	574.9	592.8
28.6	77.5°	35.7	82.1	160.7	225.0	271.4	367.8	350.0	399.9	442.8
21.4	80°	25.0	60.7	125.0	185.7	189.3	235.7	278.5	321.4	350.0
14.3	82.5°	17.9	50.0	92.8	142.8	125.0	182.1	217.8	250.0	182.1
10.7	85°	14.3	35.7	46.4	85.7	71.4	128.6	110.7	107.1	71.4
7.1	87.5°	10.7	17.9	32.1	39.3	28.6	28.6	35.7	42.9	35.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
10484.4  
10223.7  
10295.1  
10355.8  
10445.1  
10627.2  
10934.3  
11337.9  
11780.7  
12152.0  
*12348.4*  
12123.5  
11898.5  
11687.8  
11466.4  
11209.3  
10930.8  
10630.8  
10302.3  
9877.3  
9313.1  
8809.6  
8309.7  
7031.3  
5642.1  
3988.8  
2056.9  
1224.8  
953.5  
778.5  
582.1  
449.9  
353.5  
132.1  
71.4  
35.7  
0.0

(END OF REPORT)