

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: P638322

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

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638322  
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-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19655.5 lumens  
Efficiency: N/A  
Efficacy: 62.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

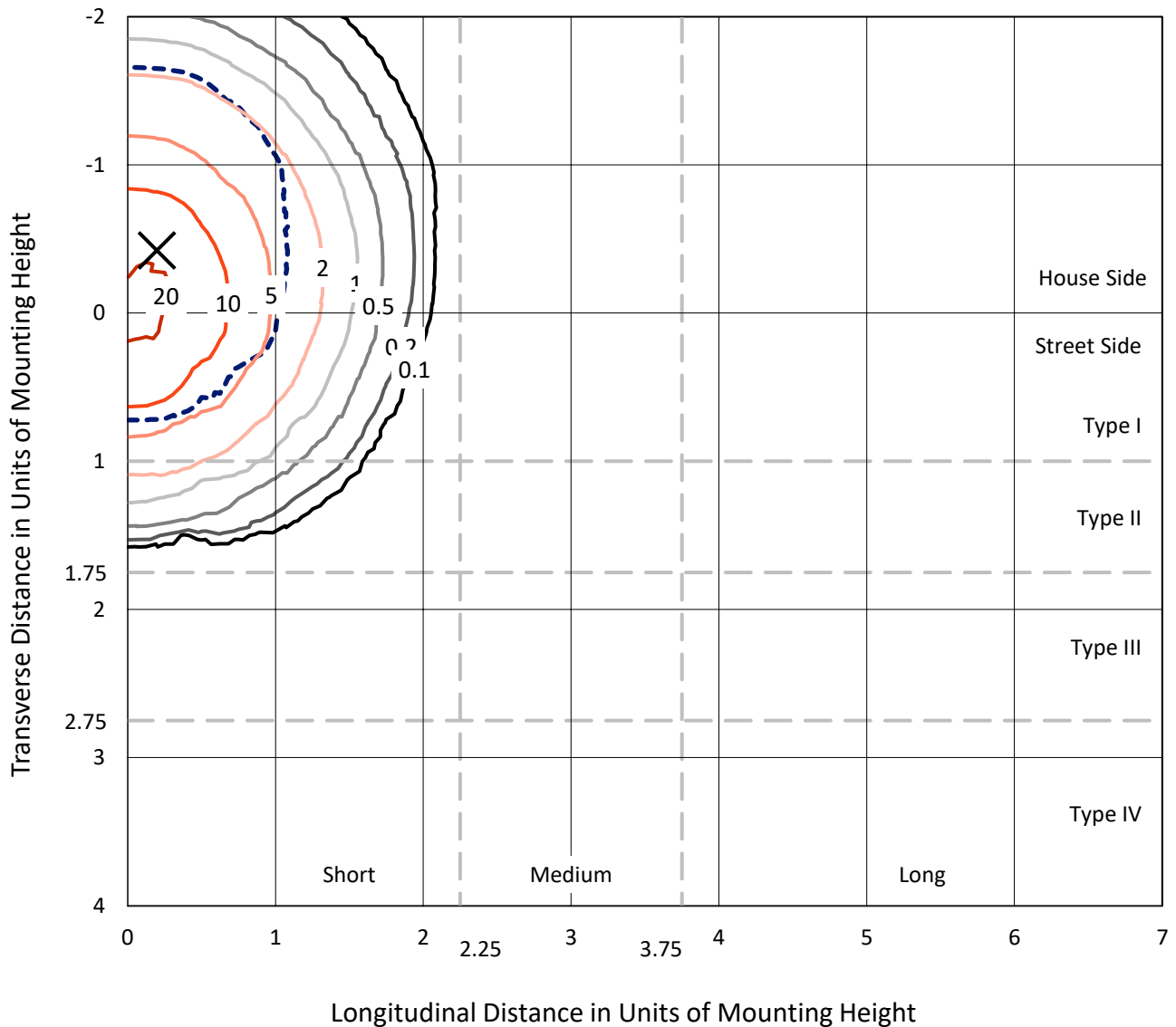
Input Watts (W): 314.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

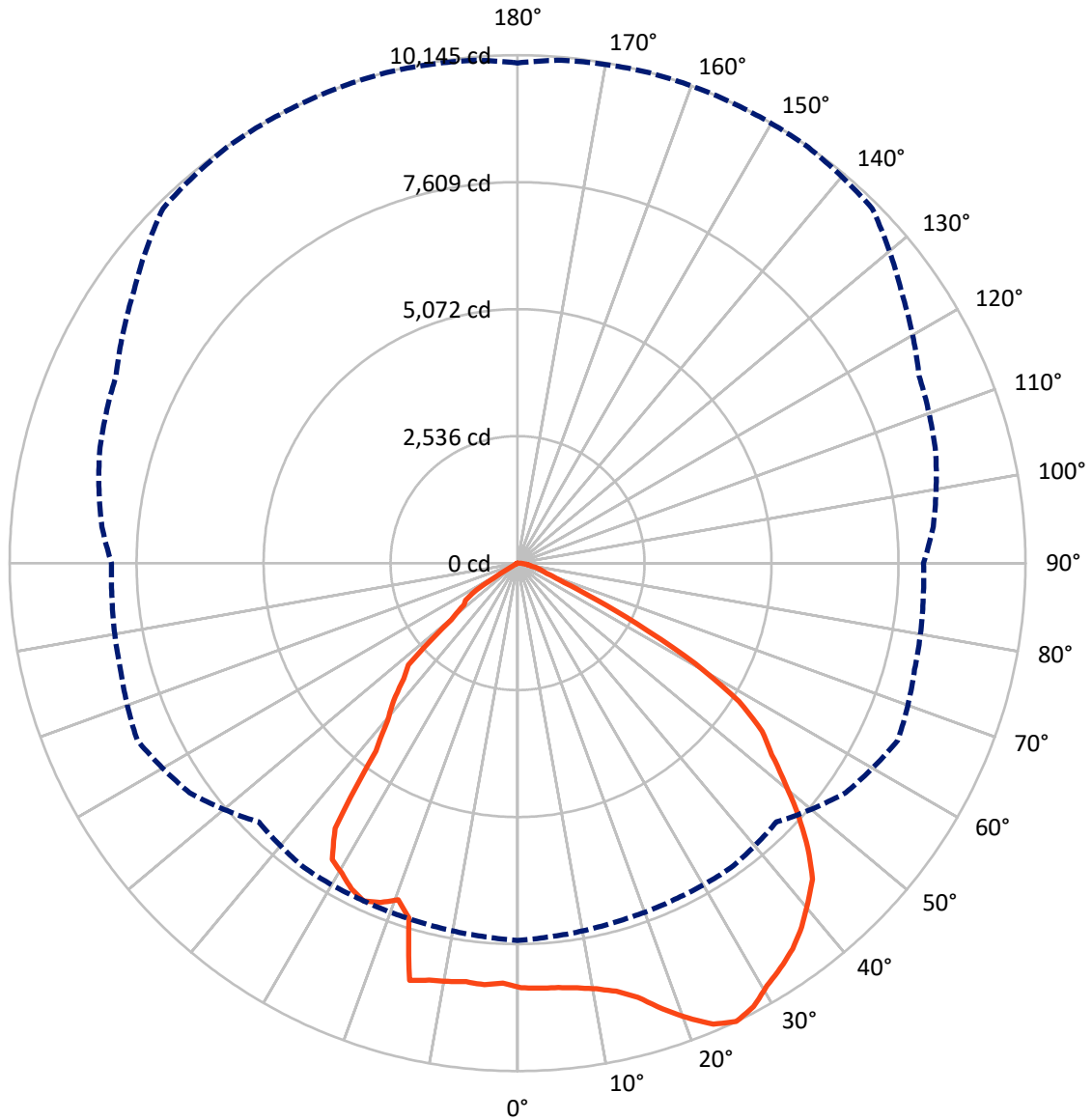
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.2 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	12168.8	0.0	12168.8
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	7486.7	0.0	7486.7
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	19655.5	0.0	19655.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	813.6	4.1
10°-20°	2484.4	12.6
20°-30°	3927.7	20.0
30°-40°	4436.7	22.6
40°-50°	4155.1	21.1
50°-60°	2864.6	14.6
60°-70°	769.6	3.9
70°-80°	160.4	0.8
80°-90°	43.4	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°	19655.5	100.0
0°-180°	19655.5	100.0



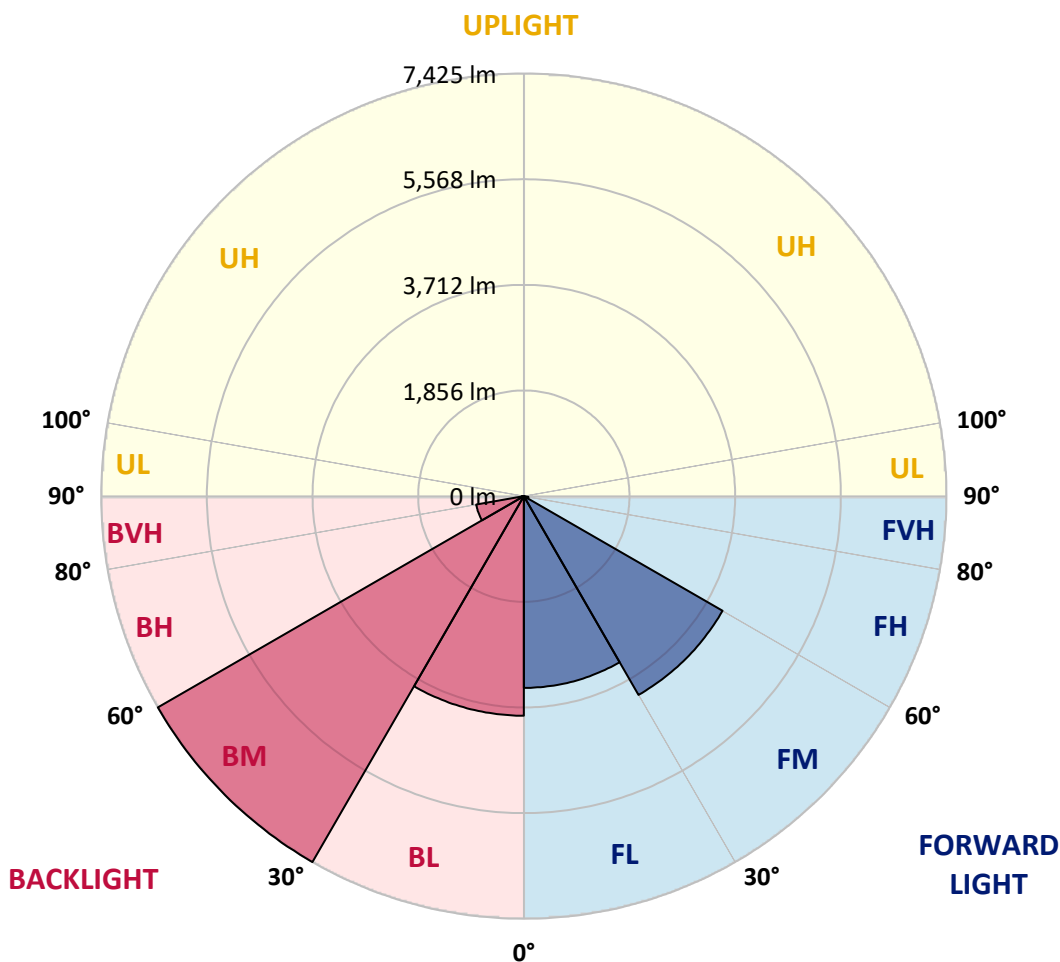
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3368.3	17.1			
FM (30°-60°)	4031.8	20.5			
FH (60°-80°)	80.8	0.4			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	3857.4	19.6	B4/5000		
BM (30°-60°)	7424.6	37.8	B4/8500		
BH (60°-80°)	849.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	37.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0
2.5°	8518.6	8463.7	8411.7	8394.3	8466.6	8544.6	8495.4	8498.3	8481.0	8512.8
5°	8582.1	8507.0	8472.3	8446.3	8457.9	8538.8	8469.4	8495.4	8466.6	8504.1
7.5°	8559.0	8507.0	8472.3	8423.2	8460.8	8556.1	8489.7	8492.6	8478.1	8512.8
10°	8544.6	8507.0	8463.7	8469.4	8512.8	8593.7	8541.7	8570.6	8550.3	8570.6
12.5°	8579.2	8538.8	8515.7	8515.7	8553.2	8645.7	8619.7	8645.7	8637.0	8654.3
15°	8252.8	8290.4	8509.9	8608.1	8683.2	8775.6	8764.1	8790.1	8795.9	8821.9
17.5°	6961.6	6924.0	6906.7	7412.2	8755.4	9041.4	9032.7	9029.8	9001.0	8980.7
20°	7132.0	7117.6	7097.4	7134.9	7285.1	9180.1	9237.8	8882.5	8778.5	8769.9
22.5°	7403.5	7380.4	7305.3	7308.2	7354.4	7981.3	8951.8	8628.3	8593.7	8573.4
25°	7536.4	7490.2	7429.5	7412.2	7426.7	7311.1	7995.7	8379.9	8209.5	8131.5
27.5°	7302.4	7305.3	7256.2	7302.4	7247.6	6727.6	6435.9	7894.6	7888.8	7854.2
30°	7126.2	7117.6	7059.8	7117.6	6739.2	6158.5	6034.3	7363.1	7302.4	7256.2
32.5°	6586.1	6591.8	6759.4	6984.7	6363.6	5904.4	5528.8	6577.4	7152.2	7126.2
35°	4711.3	4722.9	5318.0	6430.1	5794.6	5398.8	5370.0	5684.8	6915.4	6926.9
37.5°	4535.1	4535.1	4520.7	4702.7	5346.8	5193.7	5251.5	5219.7	6334.8	6363.6
40°	4408.0	4382.0	4361.8	4075.9	3717.7	5049.3	5089.8	4945.3	5988.1	5993.9
42.5°	4254.9	4226.1	4231.8	3703.2	3327.7	4691.1	4578.5	4384.9	5410.4	5416.2
45°	3974.7	4023.9	4058.5	3241.0	3212.2	3350.8	4223.2	4101.8	5020.4	5127.3
47.5°	2022.0	2065.4	3168.8	2981.1	3047.5	2978.2	3567.5	3570.3	4177.0	4532.3
50°	1834.3	1822.7	1825.6	1739.0	2813.5	2409.1	2579.5	3272.8	3345.0	3853.4
52.5°	1710.1	1707.2	1531.0	1360.5	1767.8	2120.3	1871.8	2368.7	2487.1	3264.1
55°	1265.2	1357.7	1207.4	1279.7	1106.3	1698.5	1689.8	2137.6	2178.0	2617.1
57.5°	11.6	14.4	34.7	973.5	765.5	849.3	1167.0	1458.8	1531.0	2039.4
60°	2.9	5.8	14.4	28.9	496.8	522.8	779.9	843.5	950.4	1216.1
62.5°	0.0	0.0	5.8	14.4	26.0	213.8	248.4	271.5	418.9	621.1
65°	0.0	0.0	2.9	8.7	14.4	34.7	60.7	127.1	182.0	225.3
67.5°	0.0	0.0	2.9	5.8	11.6	17.3	34.7	49.1	78.0	132.9
70°	0.0	0.0	2.9	5.8	8.7	14.4	23.1	34.7	46.2	66.4
72.5°	0.0	0.0	2.9	5.8	5.8	17.3	17.3	26.0	34.7	43.3
75°	0.0	0.0	2.9	2.9	5.8	11.6	17.3	20.2	23.1	34.7
77.5°	0.0	0.0	2.9	5.8	8.7	11.6	14.4	23.1	20.2	20.2
80°	0.0	0.0	2.9	8.7	8.7	14.4	17.3	23.1	14.4	14.4
82.5°	0.0	0.0	2.9	11.6	8.7	28.9	28.9	31.8	11.6	11.6
85°	0.0	0.0	8.7	5.8	17.3	28.9	26.0	17.3	14.4	8.7
87.5°	0.0	0.0	2.9	2.9	5.8	8.7	20.2	17.3	5.8	5.8
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°
8481.0	0°	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0	8481.0
8429.0	2.5°	8544.6	8507.0	8585.0	8576.3	8538.8	8521.4	8501.2	8483.9	8356.8
8434.8	5°	8547.4	8489.7	8585.0	8567.7	8561.9	8533.0	8515.7	8541.7	8426.1
8457.9	7.5°	8547.4	8489.7	8593.7	8599.4	8590.8	8567.7	8564.8	8582.1	8486.8
8498.3	10°	8605.2	8582.1	8668.8	8677.4	8665.9	8660.1	8645.7	8634.1	8533.0
8637.0	12.5°	8726.5	8680.3	8778.5	8804.5	8795.9	8810.3	8775.6	8793.0	8689.0
8778.5	15°	8873.9	8876.7	8951.8	9009.6	9003.8	9050.1	8998.1	9044.3	8969.2
8940.3	17.5°	9099.2	9130.9	9237.8	9324.5	9356.3	9390.9	9356.3	9370.7	9263.8
8761.2	20°	8862.3	8980.7	9494.9	9653.8	9720.2	9752.0	9694.2	9711.6	9604.7
8541.7	22.5°	8648.5	8801.6	9258.0	9754.9	9960.0	10023.5	10003.3	10000.4	9960.0
8108.4	25°	8333.7	8642.8	8847.9	9373.6	10017.8	10133.3	10144.9	10142.0	10081.3
7842.6	27.5°	7946.6	8015.9	8547.4	8868.1	9613.3	10052.4	10035.1	9951.3	9870.4
7290.9	30°	7452.7	7767.5	8007.3	8518.6	9090.5	9804.0	9804.0	9740.4	9656.7
7094.5	32.5°	7201.3	7608.6	7831.1	8015.9	8504.1	9526.7	9642.2	9575.8	9509.4
6941.4	35°	7068.5	7129.1	7649.1	7816.6	8229.7	8992.3	9460.2	9393.8	9344.7
6534.1	37.5°	6776.7	6918.3	7160.9	7608.6	7735.7	8556.1	9217.6	9182.9	9125.2
6005.5	40°	6126.8	6505.2	6877.8	7302.4	7435.3	7995.7	8923.0	8937.4	8859.4
5442.2	42.5°	5742.6	5999.7	6583.2	6869.2	7227.3	7634.6	8637.0	8660.1	8605.2
5156.2	45°	5292.0	5577.9	5988.1	6508.1	6996.3	7137.8	8131.5	8374.1	8327.9
4587.1	47.5°	4878.9	5110.0	5612.6	6138.3	6678.5	6658.3	7550.9	8007.3	7943.7
4151.0	50°	4292.5	4696.9	4933.8	5416.2	6222.1	6277.0	6932.7	7576.9	7524.9
3527.0	52.5°	3619.4	4127.8	4581.4	5023.3	5759.9	5889.9	6357.9	7137.8	7103.1
2695.1	55°	3163.0	3532.8	4044.1	4399.4	5199.5	5546.2	5927.5	6718.9	6701.6
2215.6	57.5°	2250.2	2963.7	3385.5	3882.3	4304.1	4930.9	5214.0	5866.8	5705.0
1227.7	60°	1525.2	1860.3	2374.5	2908.8	3191.9	3818.8	4081.6	4604.5	4561.1
733.7	62.5°	805.9	1115.0	1481.9	1750.5	1955.6	2565.1	2674.9	3238.1	3223.7
294.6	65°	355.3	470.8	803.0	941.7	1152.6	1435.6	1531.0	1733.2	1684.1
144.4	67.5°	184.9	280.2	453.5	557.5	701.9	808.8	886.8	950.4	990.8
95.3	70°	112.7	205.1	280.2	387.1	482.4	569.1	629.7	716.4	768.4
49.1	72.5°	83.8	130.0	193.5	297.5	349.5	450.6	511.3	574.8	621.1
40.4	75°	46.2	86.7	156.0	234.0	280.2	366.9	421.7	465.1	479.5
23.1	77.5°	28.9	66.4	130.0	182.0	219.5	297.5	283.1	323.5	358.2
17.3	80°	20.2	49.1	101.1	150.2	153.1	190.6	225.3	260.0	283.1
11.6	82.5°	14.4	40.4	75.1	115.5	101.1	147.3	176.2	202.2	147.3
8.7	85°	11.6	28.9	37.6	69.3	57.8	104.0	89.5	86.7	57.8
5.8	87.5°	8.7	14.4	26.0	31.8	23.1	23.1	28.9	34.7	28.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
8481.0  
8270.1  
8327.9  
8377.0  
8449.2  
8596.5  
8845.0  
9171.4  
9529.6  
9830.0  
9988.9  
9806.9  
9624.9  
9454.5  
9275.4  
9067.4  
8842.1  
8599.4  
8333.7  
7989.9  
7533.5  
7126.2  
6721.8  
5687.7  
4564.0  
3226.6  
1663.8  
990.8  
771.3  
629.7  
470.8  
364.0  
286.0  
106.9  
57.8  
28.9  
0.0

(END OF REPORT)