

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: P638324

Luminaire Tested: **IFLD-L-SA7B-722-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638324  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-722-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (112) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19333.8 lumens  
Efficiency: N/A  
Efficacy: 68.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

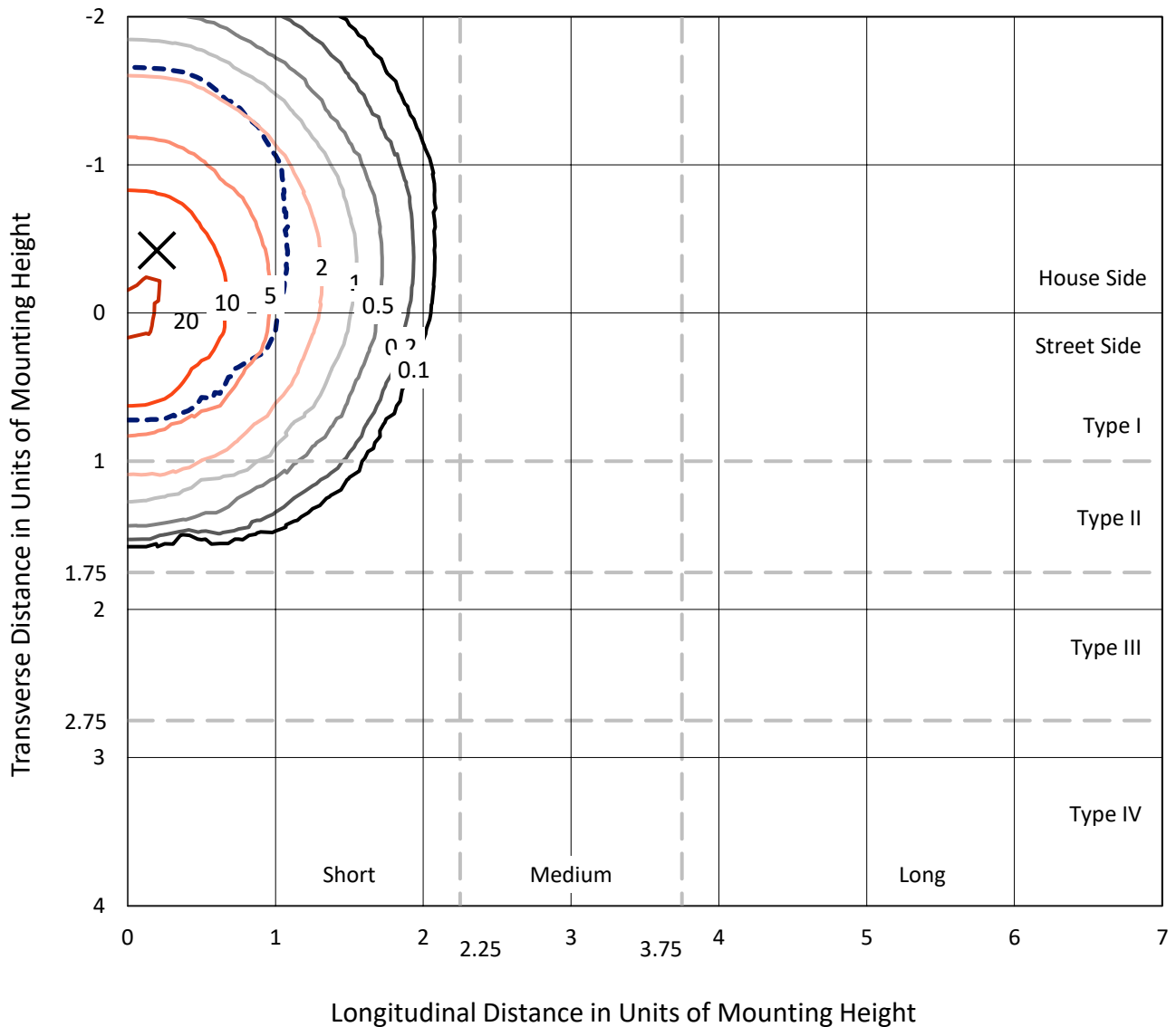
Input Watts (W): 281  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

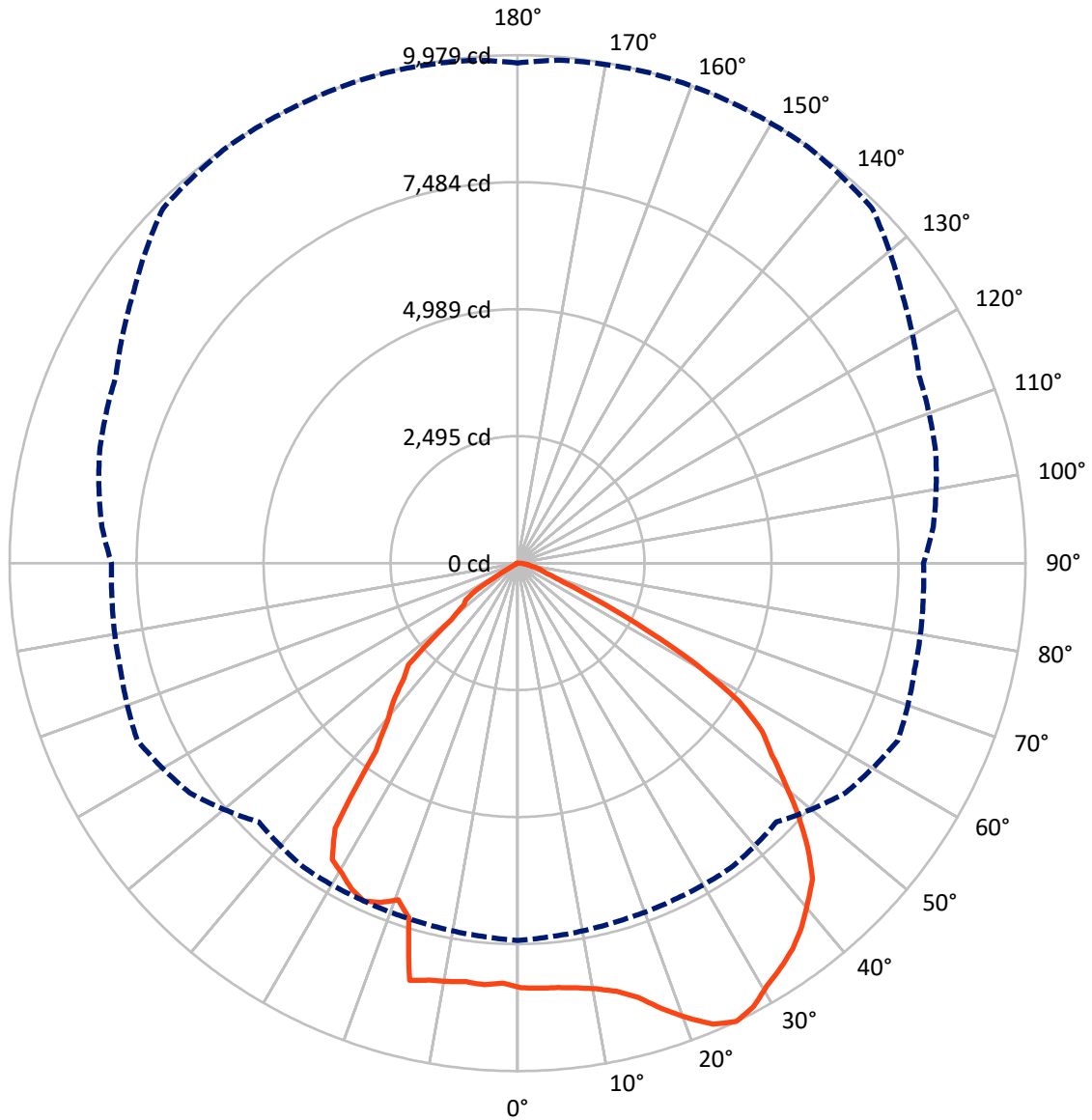
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.9 fc  
 Type I - Short - N/A

REPORT NUMBER: P638324  
CATALOG NUMBER: IFLD-L-SA7B-722-U-LAM-VI

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: IFLD-L-SA7B-722-U-LAM-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11969.6	0.0	11969.6
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	7364.2	0.0	7364.2
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	19333.8	0.0	19333.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	800.3	4.1
10°-20°	2443.7	12.6
20°-30°	3863.4	20.0
30°-40°	4364.1	22.6
40°-50°	4087.1	21.1
50°-60°	2817.7	14.6
60°-70°	757.0	3.9
70°-80°	157.8	0.8
80°-90°	42.7	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°	19333.8	100.0
0°-180°	19333.8	100.0



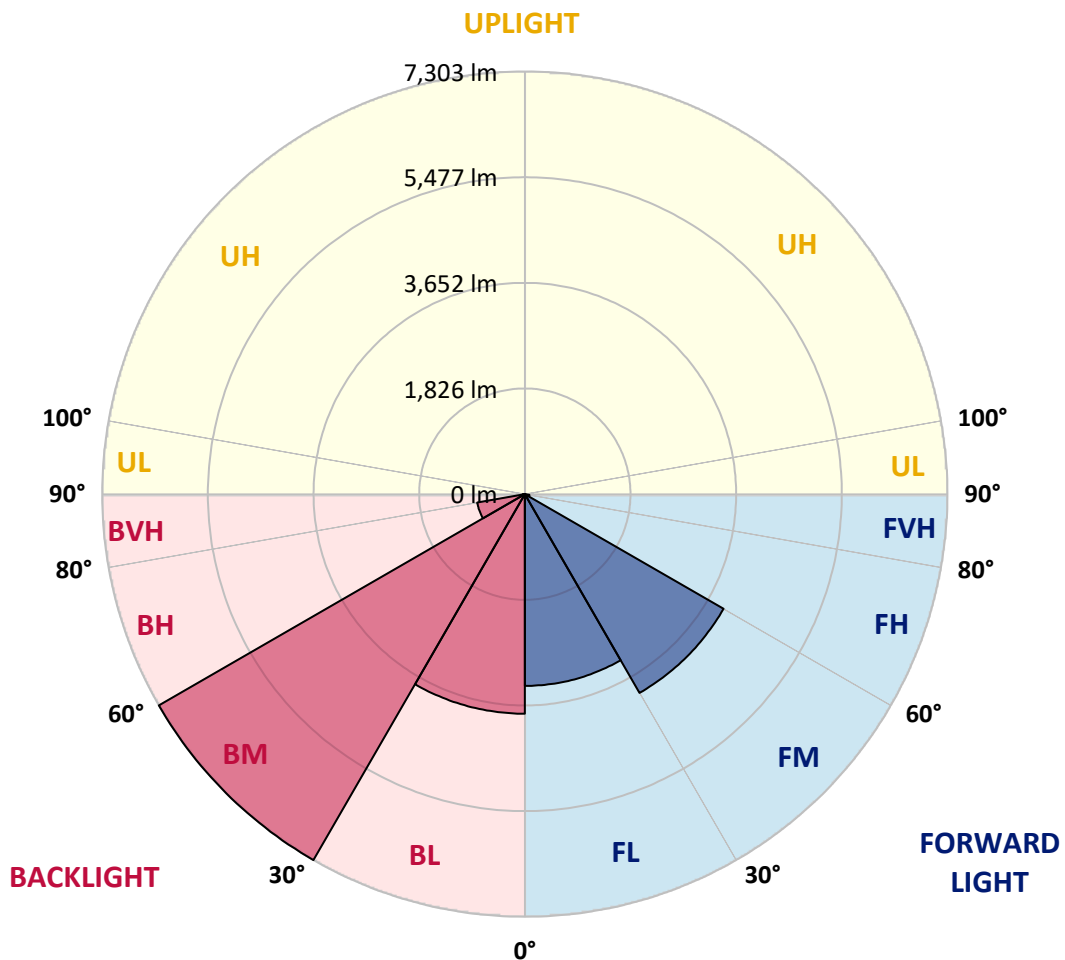
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 CATALOG NUMBER: IFLD-L-SA7B-722-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3313.2	17.1			
FM (30°-60°)	3965.8	20.5			
FH (60°-80°)	79.5	0.4			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	3794.3	19.6	B4/5000		
BM (30°-60°)	7303.1	37.8	B4/8500		
BH (60°-80°)	835.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	37.0	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





REPORT NUMBER: P638324  
 CATALOG NUMBER: IFLD-L-SA7B-722-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8342.2	8342.2	8342.2	8342.2	8342.2	8342.2	8342.2	8342.2	8342.2	8342.2
2.5°	8379.1	8325.2	8274.0	8257.0	8328.0	8404.7	8356.4	8359.3	8342.2	8373.5
5°	8441.7	8367.8	8333.7	8308.1	8319.5	8399.0	8330.8	8356.4	8328.0	8364.9
7.5°	8418.9	8367.8	8333.7	8285.4	8322.3	8416.1	8350.7	8353.6	8339.4	8373.5
10°	8404.7	8367.8	8325.2	8330.8	8373.5	8453.0	8401.9	8430.3	8410.4	8430.3
12.5°	8438.8	8399.0	8376.3	8376.3	8413.2	8504.2	8478.6	8504.2	8495.6	8512.7
15°	8117.7	8154.7	8370.6	8467.2	8541.1	8632.0	8620.7	8646.2	8651.9	8677.5
17.5°	6847.7	6810.7	6793.7	7290.9	8612.1	8893.4	8884.9	8882.1	8853.7	8833.8
20°	7015.3	7001.1	6981.2	7018.1	7165.9	9029.8	9086.6	8737.2	8634.9	8626.3
22.5°	7282.4	7259.7	7185.8	7188.6	7234.1	7850.7	8805.3	8487.1	8453.0	8433.1
25°	7413.1	7367.6	7308.0	7290.9	7305.1	7191.5	7864.9	8242.8	8075.1	7998.4
27.5°	7182.9	7185.8	7137.5	7182.9	7129.0	6617.5	6330.5	7765.4	7759.7	7725.6
30°	7009.6	7001.1	6944.3	7001.1	6628.9	6057.8	5935.6	7242.6	7182.9	7137.5
32.5°	6478.3	6484.0	6648.8	6870.4	6259.5	5807.7	5438.3	6469.8	7035.2	7009.6
35°	4634.2	4645.6	5230.9	6324.8	5699.8	5310.5	5282.1	5591.8	6802.2	6813.6
37.5°	4460.9	4460.9	4446.7	4625.7	5259.3	5108.7	5165.6	5134.3	6231.1	6259.5
40°	4335.9	4310.3	4290.4	4009.1	3656.8	4966.7	5006.5	4864.4	5890.1	5895.8
42.5°	4185.3	4156.9	4162.6	3642.6	3273.2	4614.4	4503.5	4313.2	5321.9	5327.5
45°	3909.7	3958.0	3992.1	3188.0	3159.6	3296.0	4154.1	4034.7	4938.3	5043.4
47.5°	1988.9	2031.6	3117.0	2932.3	2997.6	2929.4	3509.1	3511.9	4108.6	4458.1
50°	1804.3	1792.9	1795.7	1710.5	2767.5	2369.7	2537.3	3219.3	3290.3	3790.4
52.5°	1682.1	1679.2	1505.9	1338.3	1738.9	2085.6	1841.2	2329.9	2446.4	3210.7
55°	1244.5	1335.4	1187.7	1258.7	1088.2	1670.7	1662.2	2102.6	2142.4	2574.3
57.5°	11.4	14.2	34.1	957.5	753.0	835.4	1147.9	1434.9	1505.9	2006.0
60°	2.8	5.7	14.2	28.4	488.7	514.3	767.2	829.7	934.8	1196.2
62.5°	0.0	0.0	5.7	14.2	25.6	210.3	244.4	267.1	412.0	610.9
65°	0.0	0.0	2.8	8.5	14.2	34.1	59.7	125.0	179.0	221.6
67.5°	0.0	0.0	2.8	5.7	11.4	17.0	34.1	48.3	76.7	130.7
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	34.1	45.5	65.4
72.5°	0.0	0.0	2.8	5.7	5.7	17.0	17.0	25.6	34.1	42.6
75°	0.0	0.0	2.8	2.8	5.7	11.4	17.0	19.9	22.7	34.1
77.5°	0.0	0.0	2.8	5.7	8.5	11.4	14.2	22.7	19.9	19.9
80°	0.0	0.0	2.8	8.5	8.5	14.2	17.0	22.7	14.2	14.2
82.5°	0.0	0.0	2.8	11.4	8.5	28.4	28.4	31.3	11.4	11.4
85°	0.0	0.0	8.5	5.7	17.0	28.4	25.6	17.0	14.2	8.5
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	19.9	17.0	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638324

CATALOG NUMBER: IFLD-L-SA7B-722-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8342.2	0°	8342.2	8342.2	8342.2	8342.2	8342.2	8342.2	8342.2	8342.2	8342.2
8291.1	2.5°	8404.7	8367.8	8444.5	8436.0	8399.0	8382.0	8362.1	8345.0	8220.0
8296.7	5°	8407.6	8350.7	8444.5	8427.4	8421.8	8393.4	8376.3	8401.9	8288.2
8319.5	7.5°	8407.6	8350.7	8453.0	8458.7	8450.2	8427.4	8424.6	8441.7	8347.9
8359.3	10°	8464.4	8441.7	8526.9	8535.4	8524.1	8518.4	8504.2	8492.8	8393.4
8495.6	12.5°	8583.7	8538.3	8634.9	8660.4	8651.9	8666.1	8632.0	8649.1	8546.8
8634.9	15°	8728.6	8731.5	8805.3	8862.2	8856.5	8902.0	8850.8	8896.3	8822.4
8794.0	17.5°	8950.3	8981.5	9086.6	9171.9	9203.1	9237.2	9203.1	9217.3	9112.2
8617.8	20°	8717.3	8833.8	9339.5	9495.8	9561.1	9592.4	9535.6	9552.6	9447.5
8401.9	22.5°	8507.0	8657.6	9106.5	9595.2	9797.0	9859.5	9839.6	9836.8	9797.0
7975.7	25°	8197.3	8501.3	8703.1	9220.2	9853.8	9967.5	9978.8	9976.0	9916.3
7714.3	27.5°	7816.6	7884.7	8407.6	8722.9	9456.0	9887.9	9870.9	9788.5	9708.9
7171.6	30°	7330.7	7640.4	7876.2	8379.1	8941.7	9643.5	9643.5	9581.0	9498.6
6978.4	32.5°	7083.5	7484.1	7702.9	7884.7	8364.9	9370.8	9484.4	9419.1	9353.7
6827.8	35°	6952.8	7012.5	7523.9	7688.7	8095.0	8845.1	9305.4	9240.1	9191.8
6427.1	37.5°	6665.8	6805.0	7043.7	7484.1	7609.1	8416.1	9066.8	9032.7	8975.8
5907.2	40°	6026.5	6398.7	6765.3	7182.9	7313.6	7864.9	8776.9	8791.1	8714.4
5353.1	42.5°	5648.6	5901.5	6475.4	6756.7	7109.1	7509.7	8495.6	8518.4	8464.4
5071.8	45°	5205.4	5486.6	5890.1	6401.6	6881.8	7021.0	7998.4	8237.1	8191.6
4512.1	47.5°	4799.0	5026.4	5520.7	6037.9	6569.2	6549.3	7427.3	7876.2	7813.7
4083.0	50°	4222.2	4620.0	4853.0	5327.5	6120.3	6174.3	6819.2	7452.9	7401.7
3469.3	52.5°	3560.2	4060.3	4506.4	4941.1	5665.7	5793.5	6253.8	7021.0	6986.9
2651.0	55°	3111.3	3475.0	3977.9	4327.4	5114.4	5455.4	5830.5	6609.0	6591.9
2179.3	57.5°	2213.4	2915.2	3330.1	3818.8	4233.6	4850.2	5128.6	5770.8	5611.7
1207.6	60°	1500.2	1829.8	2335.6	2861.2	3139.7	3756.3	4014.8	4529.1	4486.5
721.7	62.5°	792.7	1096.8	1457.6	1721.9	1923.6	2523.1	2631.1	3185.2	3170.9
289.8	65°	349.5	463.1	789.9	926.3	1133.7	1412.2	1505.9	1704.8	1656.5
142.1	67.5°	181.8	275.6	446.1	548.4	690.4	795.6	872.3	934.8	974.6
93.8	70°	110.8	201.7	275.6	380.7	474.5	559.7	619.4	704.7	755.8
48.3	72.5°	82.4	127.9	190.4	292.7	343.8	443.3	502.9	565.4	610.9
39.8	75°	45.5	85.2	153.4	230.1	275.6	360.9	414.8	457.5	471.7
22.7	77.5°	28.4	65.4	127.9	179.0	215.9	292.7	278.5	318.2	352.3
17.0	80°	19.9	48.3	99.4	147.8	150.6	187.5	221.6	255.7	278.5
11.4	82.5°	14.2	39.8	73.9	113.7	99.4	144.9	173.3	198.9	144.9
8.5	85°	11.4	28.4	36.9	68.2	56.8	102.3	88.1	85.2	56.8
5.7	87.5°	8.5	14.2	25.6	31.3	22.7	22.7	28.4	34.1	28.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
8342.2  
8134.8  
8191.6  
8239.9  
8311.0  
8455.9  
8700.2  
9021.3  
9373.6  
9669.1  
*9825.4*  
9646.4  
9467.4  
9299.7  
9123.6  
8919.0  
8697.4  
8458.7  
8197.3  
7859.2  
7410.2  
7009.6  
6611.8  
5594.6  
4489.3  
3173.8  
1636.6  
974.6  
758.6  
619.4  
463.1  
358.0  
281.3  
105.1  
56.8  
28.4  
0.0

(END OF REPORT)