

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: P638327

Luminaire Tested: **IFLD-L-SA7E-722-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638327  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7E-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: 30647.5 lumens  
Efficiency: N/A  
Efficacy: 57.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

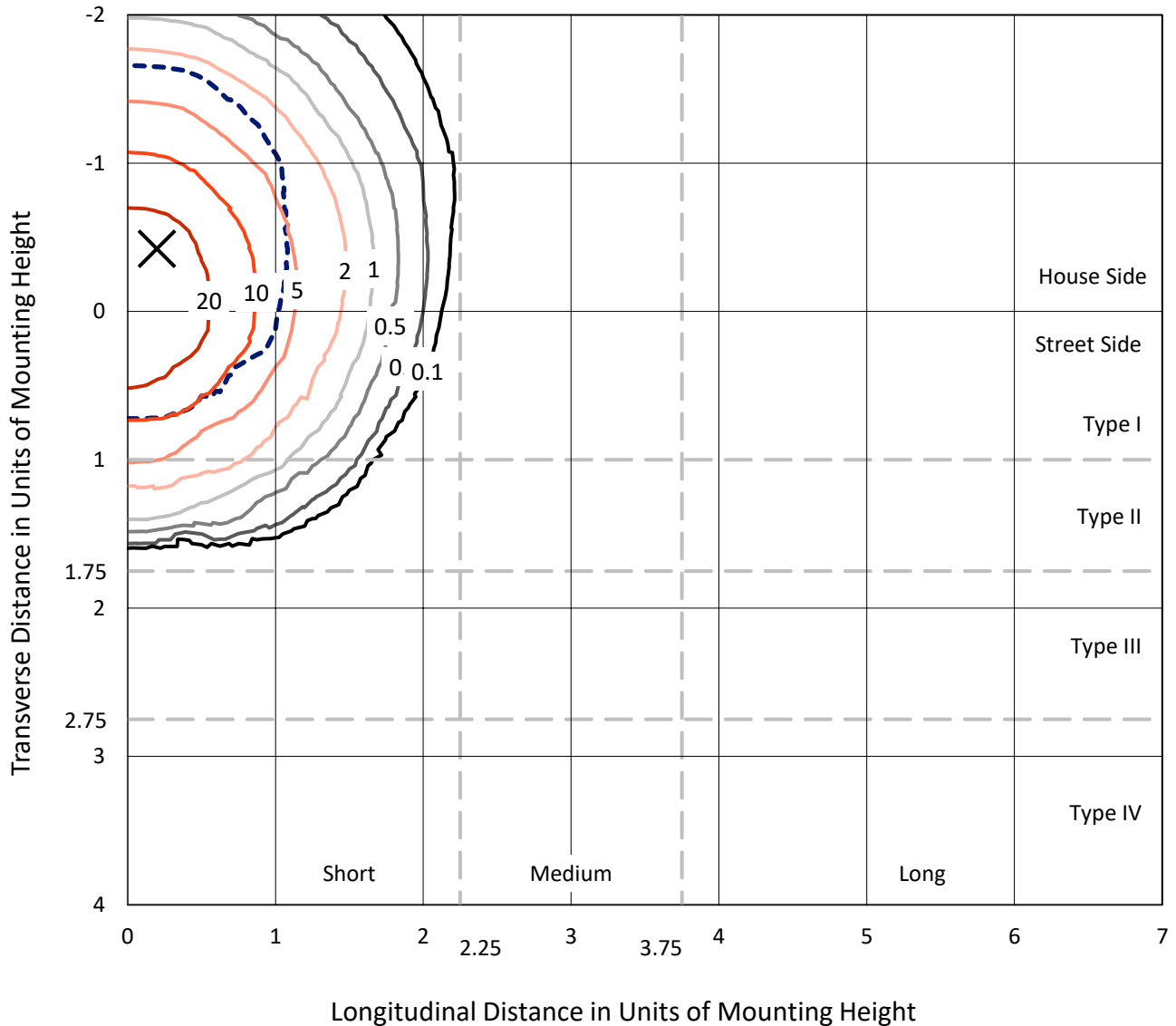
Input Watts (W): 532.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638327  
 CATALOG NUMBER: IFLD-L-SA7E-722-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

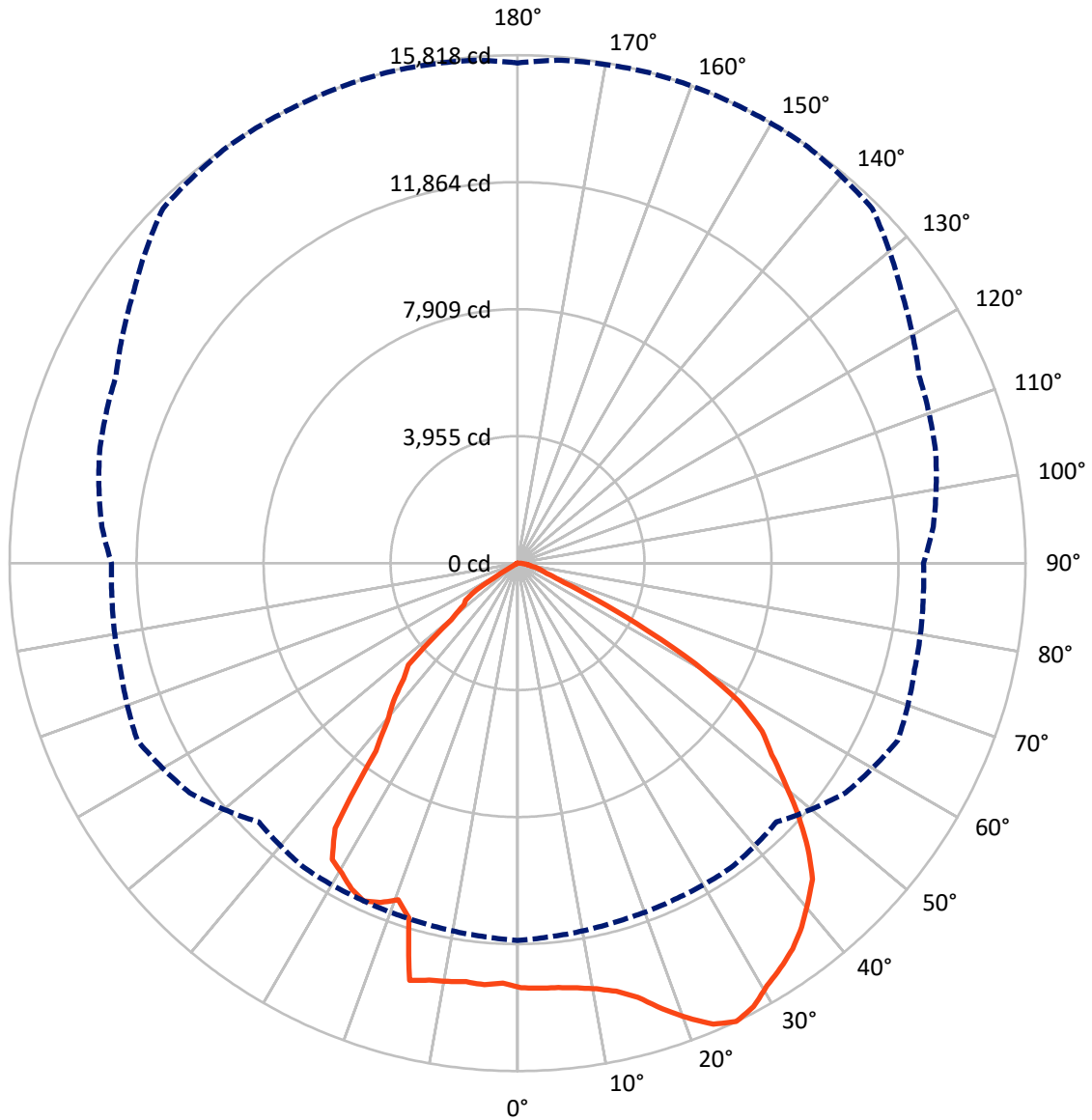
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.1 fc  
 Type I - Short - N/A

REPORT NUMBER: P638327  
CATALOG NUMBER: IFLD-L-SA7E-722-U-LAM-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638327  
 CATALOG NUMBER: IFLD-L-SA7E-722-U-LAM-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18974.0	0.0	18974.0
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	11673.6	0.0	11673.6
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	30647.5	0.0	30647.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1268.7	4.1
10°-20°	3873.8	12.6
20°-30°	6124.2	20.0
30°-40°	6917.8	22.6
40°-50°	6478.7	21.1
50°-60°	4466.6	14.6
60°-70°	1200.0	3.9
70°-80°	250.1	0.8
80°-90°	67.6	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°	30647.5	100.0
0°-180°	30647.5	100.0



REPORT NUMBER: P638327

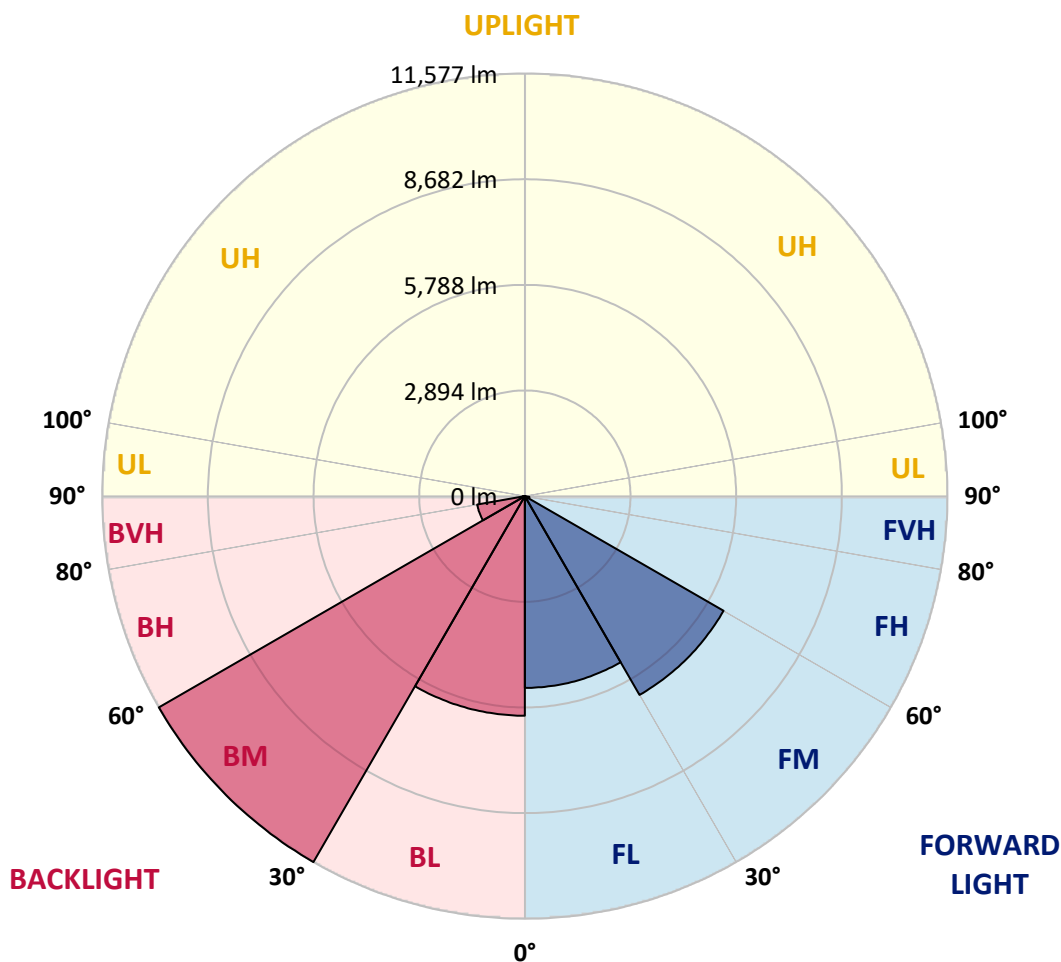
CATALOG NUMBER: IFLD-L-SA7E-722-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5252.0	17.1			
FM (30°-60°)	6286.5	20.5			
FH (60°-80°)	126.0	0.4			G0/660
FVH (80°-90°)	9.1	0.0			G0/10
BL (0°-30°)	6014.6	19.6	B5		
BM (30°-60°)	11576.6	37.8	B5		
BH (60°-80°)	1324.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	58.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





REPORT NUMBER: P638327  
 CATALOG NUMBER: IFLD-L-SA7E-722-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13223.9	13223.9	13223.9	13223.9	13223.9	13223.9	13223.9	13223.9	13223.9	13223.9
2.5°	13282.4	13196.8	13115.8	13088.8	13201.4	13323.0	13246.4	13250.9	13223.9	13273.4
5°	13381.5	13264.4	13210.4	13169.8	13187.8	13314.0	13205.9	13246.4	13201.4	13259.9
7.5°	13345.5	13264.4	13210.4	13133.8	13192.3	13341.0	13237.4	13241.9	13219.4	13273.4
10°	13323.0	13264.4	13196.8	13205.9	13273.4	13399.5	13318.5	13363.5	13332.0	13363.5
12.5°	13377.0	13314.0	13277.9	13277.9	13336.5	13480.6	13440.1	13480.6	13467.1	13494.1
15°	12868.1	12926.6	13268.9	13422.1	13539.2	13683.3	13665.3	13705.8	13714.8	13755.3
17.5°	10854.7	10796.2	10769.2	11557.4	13651.8	14097.7	14084.1	14079.6	14034.6	14003.1
20°	11120.5	11098.0	11066.4	11125.0	11359.2	14313.9	14403.9	13849.9	13687.8	13674.3
22.5°	11543.9	11507.8	11390.7	11395.2	11467.3	12444.7	13958.0	13453.6	13399.5	13368.0
25°	11751.0	11679.0	11584.4	11557.4	11579.9	11399.7	12467.2	13066.2	12800.5	12678.9
27.5°	11386.2	11390.7	11314.2	11386.2	11300.6	10489.9	10035.0	12309.6	12300.5	12246.5
30°	11111.5	11098.0	11007.9	11098.0	10507.9	9602.6	9408.9	11480.8	11386.2	11314.2
32.5°	10269.2	10278.2	10539.5	10890.8	9922.4	9206.3	8620.7	10255.7	11152.0	11111.5
35°	7346.1	7364.1	8291.9	10026.0	9035.1	8418.1	8373.0	8864.0	10782.7	10800.7
37.5°	7071.3	7071.3	7048.8	7332.6	8337.0	8098.3	8188.4	8138.8	9877.4	9922.4
40°	6873.2	6832.6	6801.1	6355.2	5796.7	7873.1	7936.1	7710.9	9336.9	9345.9
42.5°	6634.5	6589.4	6598.4	5774.2	5188.7	7314.6	7138.9	6837.1	8436.1	8445.1
45°	6197.6	6274.1	6328.2	5053.5	5008.5	5224.7	6584.9	6395.7	7828.0	7994.7
47.5°	3152.8	3220.4	4940.9	4648.2	4751.8	4643.7	5562.5	5567.0	6512.8	7066.8
50°	2860.1	2842.1	2846.6	2711.4	4386.9	3756.4	4022.1	5103.1	5215.7	6008.4
52.5°	2666.4	2661.9	2387.1	2121.4	2756.5	3306.0	2918.6	3693.3	3878.0	5089.6
55°	1972.8	2116.9	1882.7	1995.3	1725.0	2648.4	2634.9	3333.0	3396.0	4080.7
57.5°	18.0	22.5	54.0	1517.9	1193.6	1324.2	1819.6	2274.5	2387.1	3179.9
60°	4.5	9.0	22.5	45.0	774.7	815.2	1216.1	1315.2	1481.8	1896.2
62.5°	0.0	0.0	9.0	22.5	40.5	333.3	387.3	423.4	653.1	968.4
65°	0.0	0.0	4.5	13.5	22.5	54.0	94.6	198.2	283.8	351.3
67.5°	0.0	0.0	4.5	9.0	18.0	27.0	54.0	76.6	121.6	207.2
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.0	54.0	72.1	103.6
72.5°	0.0	0.0	4.5	9.0	9.0	27.0	27.0	40.5	54.0	67.6
75°	0.0	0.0	4.5	4.5	9.0	18.0	27.0	31.5	36.0	54.0
77.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	36.0	31.5	31.5
80°	0.0	0.0	4.5	13.5	13.5	22.5	27.0	36.0	22.5	22.5
82.5°	0.0	0.0	4.5	18.0	13.5	45.0	45.0	49.5	18.0	18.0
85°	0.0	0.0	13.5	9.0	27.0	45.0	40.5	27.0	22.5	13.5
87.5°	0.0	0.0	4.5	4.5	9.0	13.5	31.5	27.0	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638327

CATALOG NUMBER: IFLD-L-SA7E-722-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13223.9	0°	13223.9	13223.9	13223.9	13223.9	13223.9	13223.9	13223.9	13223.9	13223.9
13142.8	2.5°	13323.0	13264.4	13386.0	13372.5	13314.0	13286.9	13255.4	13228.4	13030.2
13151.8	5°	13327.5	13237.4	13386.0	13359.0	13350.0	13304.9	13277.9	13318.5	13138.3
13187.8	7.5°	13327.5	13237.4	13399.5	13408.5	13395.0	13359.0	13354.5	13381.5	13232.9
13250.9	10°	13417.5	13381.5	13516.6	13530.1	13512.1	13503.1	13480.6	13462.6	13304.9
13467.1	12.5°	13606.7	13534.7	13687.8	13728.3	13714.8	13737.3	13683.3	13710.3	13548.2
13687.8	15°	13836.4	13840.9	13958.0	14048.1	14039.1	14111.2	14030.1	14102.2	13985.1
13940.0	17.5°	14187.7	14237.3	14403.9	14539.1	14588.6	14642.6	14588.6	14611.1	14444.5
13660.8	20°	13818.4	14003.1	14804.8	15052.5	15156.1	15205.7	15115.6	15142.6	14975.9
13318.5	22.5°	13485.1	13723.8	14435.5	15210.2	15529.9	15629.0	15597.5	15593.0	15529.9
12642.9	25°	12994.2	13476.1	13795.9	14615.6	15620.0	15800.2	15818.2	15813.7	15719.1
12228.5	27.5°	12390.6	12498.7	13327.5	13827.4	14989.5	15674.1	15647.0	15516.4	15390.3
11368.2	30°	11620.4	12111.4	12485.2	13282.4	14174.2	15286.7	15286.7	15187.6	15057.0
11061.9	32.5°	11228.6	11863.7	12210.5	12498.7	13259.9	14854.3	15034.5	14930.9	14827.3
10823.2	35°	11021.4	11116.0	11926.7	12187.9	12832.0	14021.1	14750.7	14647.2	14570.6
10188.1	37.5°	10566.5	10787.2	11165.5	11863.7	12061.8	13341.0	14372.4	14318.4	14228.3
9363.9	40°	9553.1	10143.1	10724.1	11386.2	11593.4	12467.2	13913.0	13935.5	13813.9
8485.6	42.5°	8954.0	9354.9	10264.7	10710.6	11269.1	11904.2	13467.1	13503.1	13417.5
8039.7	45°	8251.4	8697.3	9336.9	10147.6	10908.8	11129.5	12678.9	13057.2	12985.2
7152.4	47.5°	7607.3	7967.7	8751.4	9571.1	10413.3	10381.8	11773.6	12485.2	12386.1
6472.3	50°	6693.0	7323.6	7692.9	8445.1	9701.7	9787.3	10809.7	11814.1	11733.0
5499.4	52.5°	5643.6	6436.3	7143.4	7832.5	8981.1	9183.7	9913.4	11129.5	11075.4
4202.3	55°	4931.9	5508.4	6305.7	6859.7	8107.3	8647.8	9242.3	10476.4	10449.4
3454.6	57.5°	3508.7	4621.1	5278.7	6053.4	6711.0	7688.4	8129.8	9147.7	8895.5
1914.2	60°	2378.1	2900.6	3702.3	4535.6	4977.0	5954.3	6364.2	7179.4	7111.9
1144.0	62.5°	1256.6	1738.6	2310.6	2729.5	3049.2	3999.6	4170.7	5049.0	5026.5
459.4	65°	554.0	734.2	1252.1	1468.3	1797.1	2238.5	2387.1	2702.4	2625.9
225.2	67.5°	288.3	436.9	707.1	869.3	1094.5	1261.1	1382.7	1481.8	1544.9
148.6	70°	175.7	319.8	436.9	603.5	752.2	887.3	981.9	1117.0	1198.1
76.6	72.5°	130.6	202.7	301.8	463.9	545.0	702.6	797.2	896.3	968.4
63.1	75°	72.1	135.1	243.2	364.8	436.9	572.0	657.6	725.2	747.7
36.0	77.5°	45.0	103.6	202.7	283.8	342.3	463.9	441.4	504.5	558.5
27.0	80°	31.5	76.6	157.6	234.2	238.7	297.3	351.3	405.4	441.4
18.0	82.5°	22.5	63.1	117.1	180.2	157.6	229.7	274.7	315.3	229.7
13.5	85°	18.0	45.0	58.6	108.1	90.1	162.1	139.6	135.1	90.1
9.0	87.5°	13.5	22.5	40.5	49.5	36.0	36.0	45.0	54.0	45.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
13223.9  
12895.1  
12985.2  
13061.7  
13174.3  
13404.0  
13791.4  
14300.3  
14858.8  
15327.3  
*15575.0*  
15291.2  
15007.5  
14741.7  
14462.5  
14138.2  
13786.9  
13408.5  
12994.2  
12458.2  
11746.5  
11111.5  
10480.9  
8868.5  
7116.4  
5031.0  
2594.3  
1544.9  
1202.6  
981.9  
734.2  
567.5  
445.9  
166.6  
90.1  
45.0  
0.0

(END OF REPORT)