

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: P638519

Luminaire Tested: **IFLD-S-SA6D-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638519  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6D-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (96) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24771.9 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

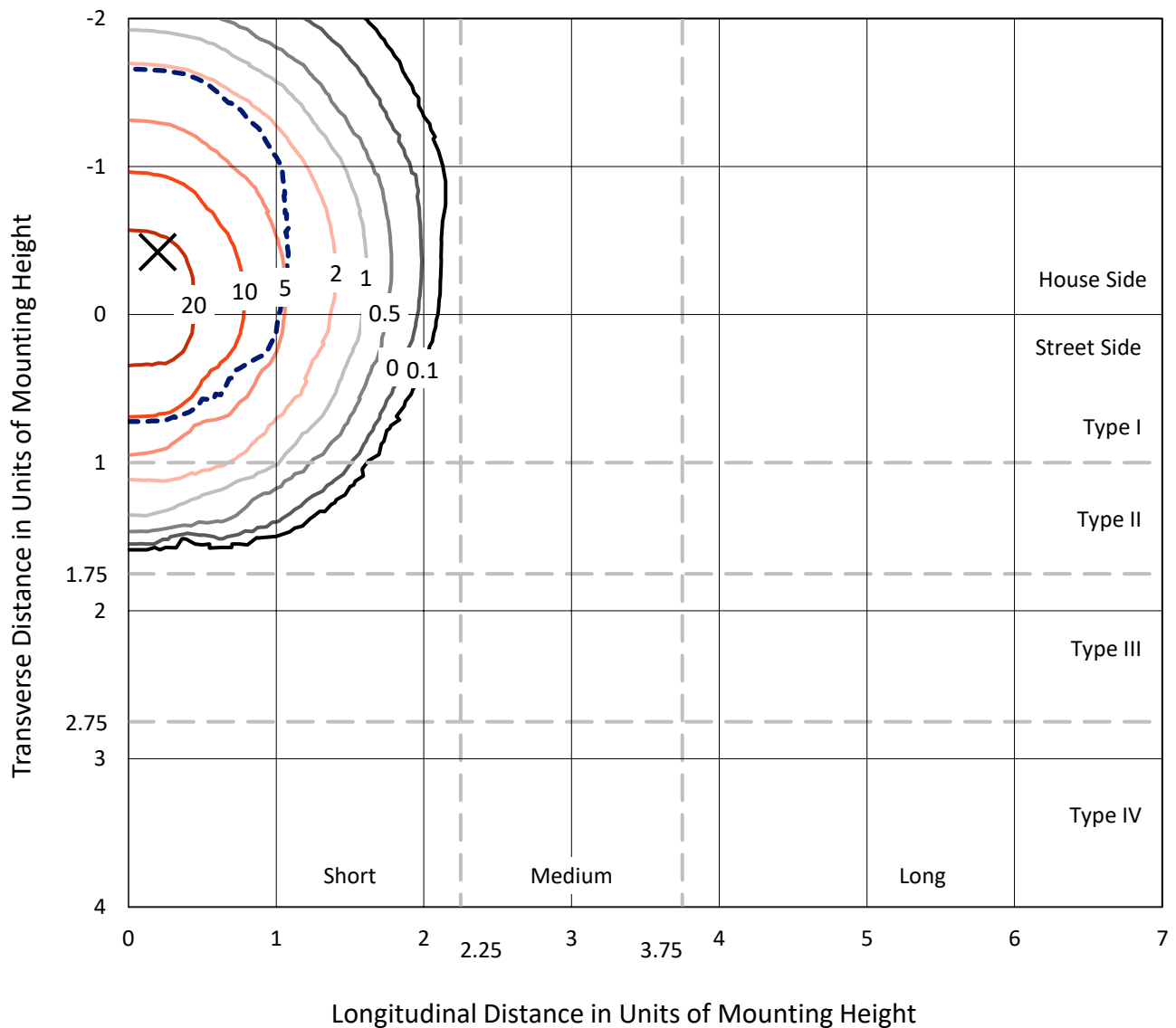
Input Watts (W): 368.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

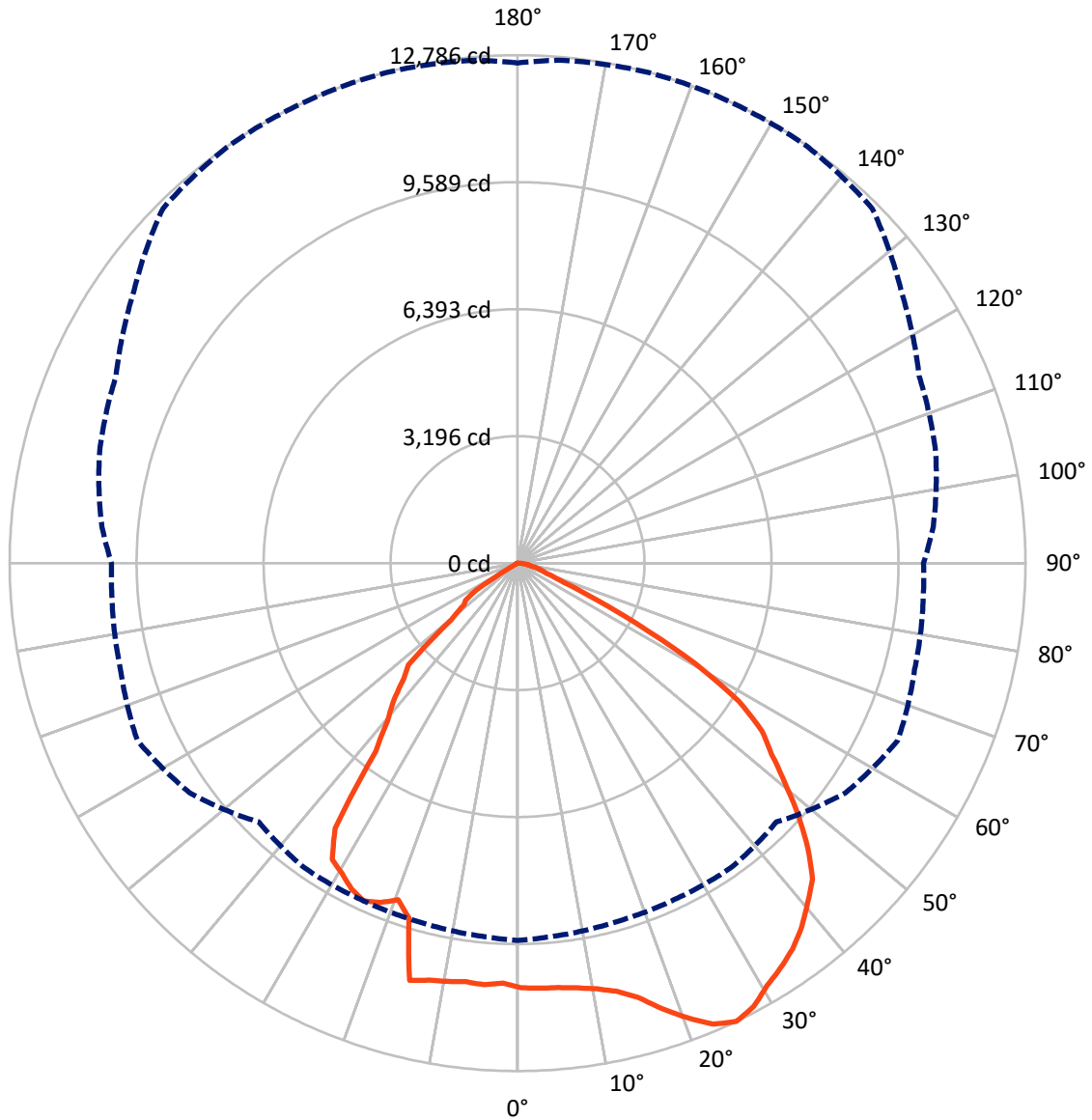
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.7 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	15336.3	0.0	15336.3
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	9435.5	0.0	9435.5
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	24771.9	0.0	24771.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1025.4	4.1
10°-20°	3131.1	12.6
20°-30°	4950.1	20.0
30°-40°	5591.6	22.6
40°-50°	5236.6	21.1
50°-60°	3610.3	14.6
60°-70°	970.0	3.9
70°-80°	202.1	0.8
80°-90°	54.7	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°	24771.9	100.0
0°-180°	24771.9	100.0



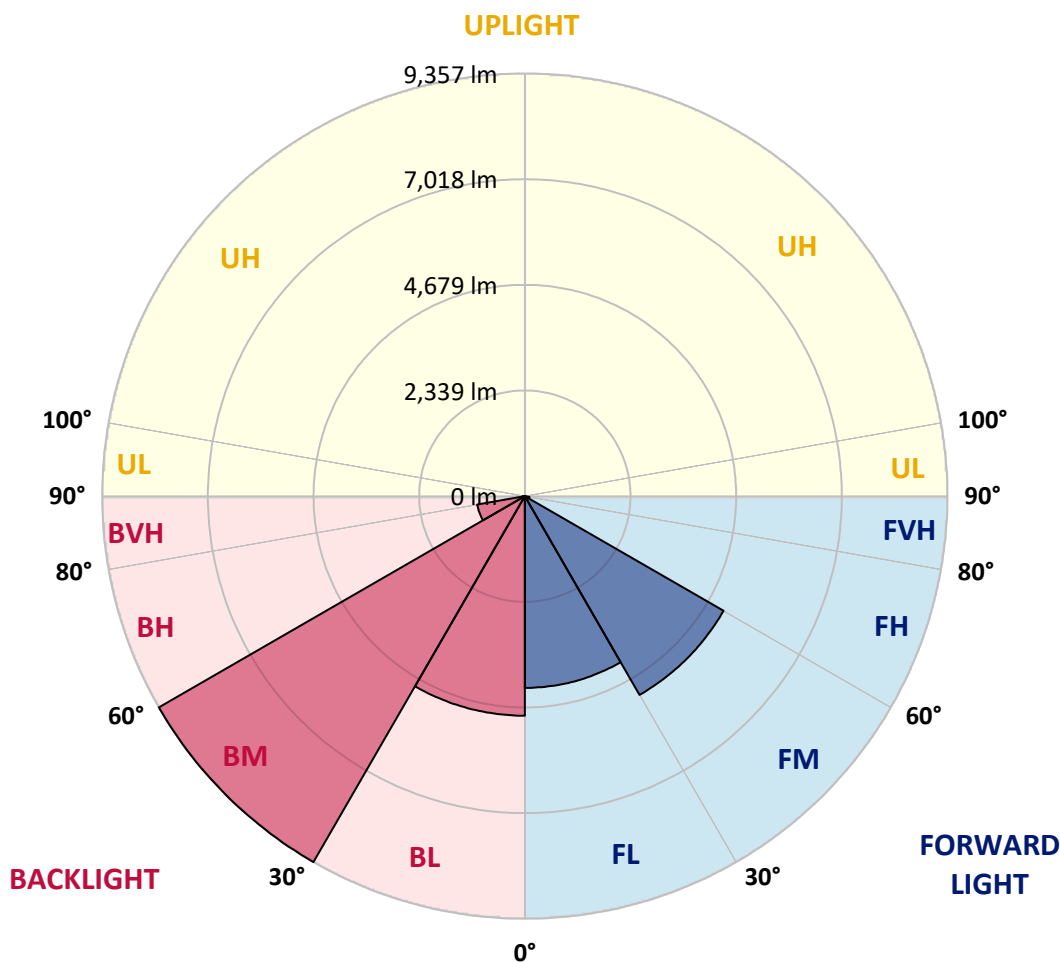
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4245.1	17.1			
FM (30°-60°)	5081.3	20.5			
FH (60°-80°)	101.8	0.4			G0/660
FVH (80°-90°)	7.3	0.0			G0/10
BL (0°-30°)	4861.5	19.6	B4/5000		
BM (30°-60°)	9357.2	37.8	B5		
BH (60°-80°)	1070.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	47.3	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°	10688.6	10688.6	10688.6	10688.6	10688.6	10688.6	10688.6	10688.6	10688.6	10688.6
2.5°	10736.0	10666.8	10601.3	10579.4	10670.4	10768.7	10706.8	10710.5	10688.6	10728.7
5°	10816.0	10721.4	10677.7	10644.9	10659.5	10761.4	10674.1	10706.8	10670.4	10717.8
7.5°	10786.9	10721.4	10677.7	10615.8	10663.1	10783.3	10699.6	10703.2	10685.0	10728.7
10°	10768.7	10721.4	10666.8	10674.1	10728.7	10830.6	10765.1	10801.5	10776.0	10801.5
12.5°	10812.4	10761.4	10732.3	10732.3	10779.6	10896.1	10863.4	10896.1	10885.2	10907.1
15°	10401.0	10448.4	10725.0	10848.8	10943.5	11060.0	11045.4	11078.2	11085.4	11118.2
17.5°	8773.7	8726.4	8704.5	9341.6	11034.5	11394.9	11384.0	11380.3	11343.9	11318.4
20°	8988.5	8970.3	8944.8	8992.1	9181.4	11569.6	11642.5	11194.7	11063.6	11052.7
22.5°	9330.7	9301.6	9206.9	9210.6	9268.8	10058.8	11282.0	10874.3	10830.6	10805.1
25°	9498.2	9439.9	9363.5	9341.6	9359.8	9214.2	10077.0	10561.2	10346.4	10248.1
27.5°	9203.3	9206.9	9145.0	9203.3	9134.1	8478.8	8111.1	9949.6	9942.3	9898.6
30°	8981.2	8970.3	8897.5	8970.3	8493.4	7761.6	7605.1	9279.7	9203.3	9145.0
32.5°	8300.4	8307.7	8518.9	8802.8	8020.1	7441.3	6968.0	8289.5	9014.0	8981.2
35°	5937.7	5952.3	6702.2	8103.8	7302.9	6804.2	6767.8	7164.6	8715.5	8730.0
37.5°	5715.7	5715.7	5697.4	5926.8	6738.6	6545.7	6618.5	6578.5	7983.7	8020.1
40°	5555.5	5522.7	5497.2	5136.8	4685.4	6363.7	6414.6	6232.6	7546.8	7554.1
42.5°	5362.5	5326.1	5333.4	4667.2	4193.9	5912.2	5770.3	5526.3	6818.7	6826.0
45°	5009.4	5071.3	5115.0	4084.7	4048.3	4223.0	5322.5	5169.6	6327.3	6462.0
47.5°	2548.4	2603.0	3993.7	3757.0	3840.8	3753.4	4496.1	4499.7	5264.2	5712.0
50°	2311.7	2297.2	2300.8	2191.6	3545.9	3036.2	3251.0	4124.7	4215.7	4856.5
52.5°	2155.2	2151.6	1929.5	1714.7	2228.0	2672.2	2359.1	2985.2	3134.5	4113.8
55°	1594.6	1711.1	1521.7	1612.8	1394.3	2140.6	2129.7	2694.0	2745.0	3298.3
57.5°	14.6	18.2	43.7	1226.9	964.7	1070.3	1470.8	1838.5	1929.5	2570.2
60°	3.6	7.3	18.2	36.4	626.2	658.9	982.9	1063.0	1197.7	1532.7
62.5°	0.0	0.0	7.3	18.2	32.8	269.4	313.1	342.2	527.9	782.7
65°	0.0	0.0	3.6	10.9	18.2	43.7	76.5	160.2	229.4	284.0
67.5°	0.0	0.0	3.6	7.3	14.6	21.8	43.7	61.9	98.3	167.5
70°	0.0	0.0	3.6	7.3	10.9	18.2	29.1	43.7	58.2	83.7
72.5°	0.0	0.0	3.6	7.3	7.3	21.8	21.8	32.8	43.7	54.6
75°	0.0	0.0	3.6	3.6	7.3	14.6	21.8	25.5	29.1	43.7
77.5°	0.0	0.0	3.6	7.3	10.9	14.6	18.2	29.1	25.5	25.5
80°	0.0	0.0	3.6	10.9	10.9	18.2	21.8	29.1	18.2	18.2
82.5°	0.0	0.0	3.6	14.6	10.9	36.4	36.4	40.0	14.6	14.6
85°	0.0	0.0	10.9	7.3	21.8	36.4	32.8	21.8	18.2	10.9
87.5°	0.0	0.0	3.6	3.6	7.3	10.9	25.5	21.8	7.3	7.3
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°
10688.6	0°	10688.6	10688.6	10688.6	10688.6	10688.6	10688.6	10688.6	10688.6	10688.6
10623.1	2.5°	10768.7	10721.4	10819.7	10808.8	10761.4	10739.6	10714.1	10692.3	10532.1
10630.4	5°	10772.4	10699.6	10819.7	10797.8	10790.6	10754.2	10732.3	10765.1	10619.5
10659.5	7.5°	10772.4	10699.6	10830.6	10837.9	10827.0	10797.8	10794.2	10816.0	10695.9
10710.5	10°	10845.2	10816.0	10925.3	10936.2	10921.6	10914.3	10896.1	10881.6	10754.2
10885.2	12.5°	10998.1	10939.8	11063.6	11096.4	11085.4	11103.7	11060.0	11081.8	10950.7
11063.6	15°	11183.7	11187.4	11282.0	11354.8	11347.6	11405.8	11340.3	11398.5	11303.9
11267.5	17.5°	11467.7	11507.8	11642.5	11751.7	11791.7	11835.4	11791.7	11809.9	11675.2
11041.8	20°	11169.2	11318.4	11966.5	12166.7	12250.4	12290.5	12217.7	12239.5	12104.8
10765.1	22.5°	10899.8	11092.7	11667.9	12294.1	12552.6	12632.7	12607.2	12603.6	12552.6
10219.0	25°	10503.0	10892.5	11151.0	11813.6	12625.4	12771.0	12785.6	12781.9	12705.5
9884.1	27.5°	10015.1	10102.5	10772.4	11176.5	12115.7	12669.1	12647.2	12541.7	12439.7
9188.7	30°	9392.6	9789.4	10091.6	10736.0	11456.8	12356.0	12356.0	12275.9	12170.3
8941.2	32.5°	9075.9	9589.2	9869.5	10102.5	10717.8	12006.5	12152.1	12068.4	11984.7
8748.2	35°	8908.4	8984.9	9640.2	9851.3	10371.9	11333.0	11922.8	11839.0	11777.2
8234.9	37.5°	8540.7	8719.1	9024.9	9589.2	9749.4	10783.3	11617.0	11573.3	11500.5
7568.7	40°	7721.6	8198.5	8668.1	9203.3	9370.8	10077.0	11245.6	11263.8	11165.5
6858.8	42.5°	7237.4	7561.4	8296.8	8657.2	9108.6	9622.0	10885.2	10914.3	10845.2
6498.4	45°	6669.5	7029.9	7546.8	8202.1	8817.4	8995.8	10248.1	10553.9	10495.7
5781.2	47.5°	6148.9	6440.1	7073.6	7736.2	8416.9	8391.4	9516.4	10091.6	10011.5
5231.5	50°	5409.8	5919.5	6218.0	6826.0	7841.7	7910.9	8737.3	9549.1	9483.6
4445.1	52.5°	4561.6	5202.3	5773.9	6330.9	7259.2	7423.1	8012.8	8995.8	8952.1
3396.6	55°	3986.4	4452.4	5096.8	5544.5	6553.0	6989.8	7470.4	8467.9	8446.1
2792.3	57.5°	2836.0	3735.2	4266.7	4892.9	5424.4	6214.4	6571.2	7393.9	7190.1
1547.2	60°	1922.2	2344.5	2992.5	3666.0	4022.8	4812.8	5144.1	5803.0	5748.4
924.7	62.5°	1015.7	1405.2	1867.6	2206.2	2464.6	3232.8	3371.1	4081.0	4062.8
371.3	65°	447.8	593.4	1012.1	1186.8	1452.6	1809.3	1929.5	2184.3	2122.4
182.0	67.5°	233.0	353.1	571.6	702.6	884.7	1019.4	1117.6	1197.7	1248.7
120.1	70°	142.0	258.5	353.1	487.8	608.0	717.2	793.6	902.9	968.4
61.9	72.5°	105.6	163.8	243.9	375.0	440.5	567.9	644.4	724.5	782.7
51.0	75°	58.2	109.2	196.6	294.9	353.1	462.3	531.5	586.1	604.3
29.1	77.5°	36.4	83.7	163.8	229.4	276.7	375.0	356.8	407.7	451.4
21.8	80°	25.5	61.9	127.4	189.3	192.9	240.3	284.0	327.6	356.8
14.6	82.5°	18.2	51.0	94.7	145.6	127.4	185.7	222.1	254.8	185.7
10.9	85°	14.6	36.4	47.3	87.4	72.8	131.1	112.9	109.2	72.8
7.3	87.5°	10.9	18.2	32.8	40.0	29.1	29.1	36.4	43.7	36.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
10688.6  
10422.9  
10495.7  
10557.6  
10648.6  
10834.3  
11147.3  
11558.7  
12010.1  
12388.8  
*12589.0*  
12359.6  
12130.3  
11915.5  
11689.8  
11427.7  
11143.7  
10837.9  
10503.0  
10069.7  
9494.5  
8981.2  
8471.5  
7168.2  
5752.1  
4066.5  
2097.0  
1248.7  
972.0  
793.6  
593.4  
458.7  
360.4  
134.7  
72.8  
36.4  
0.0

(END OF REPORT)