

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: P637268

Luminaire Tested: **IFLD-S-SA3E-722-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637268  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-722-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19162.9 lumens  
Efficiency: N/A  
Efficacy: 82.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

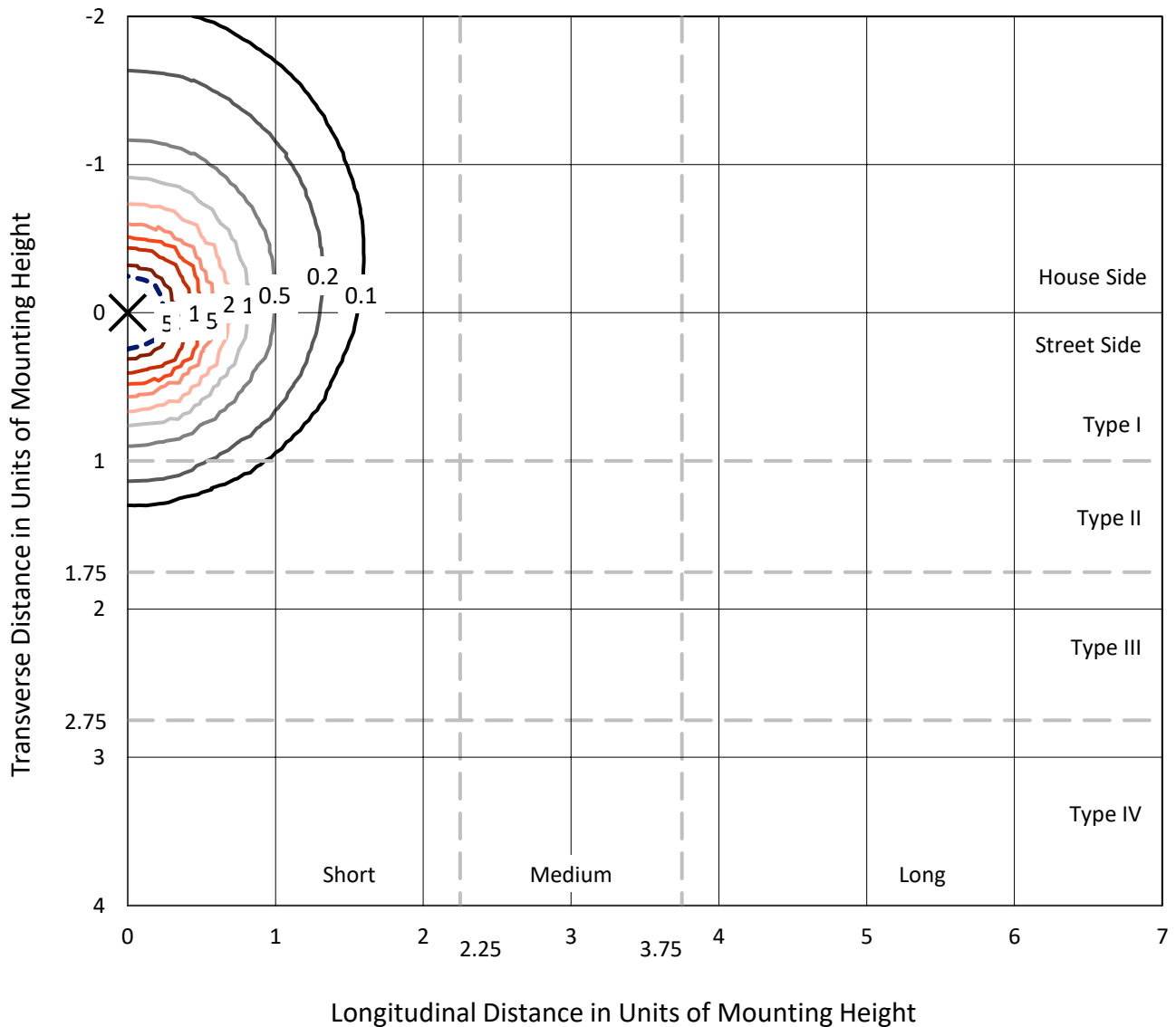
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

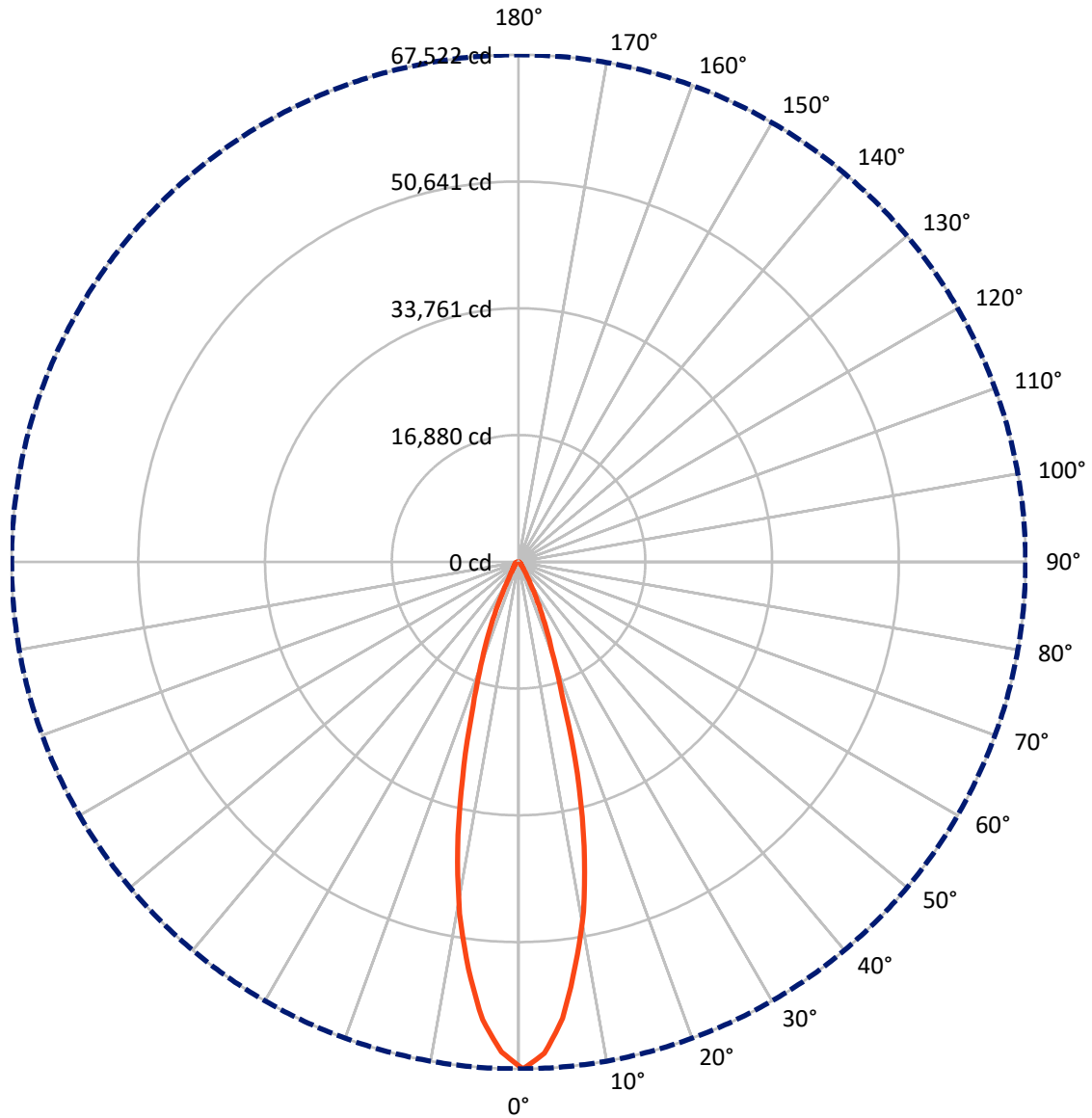
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 168.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 0-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10104.0	0.0	10104.0
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	9058.9	0.0	9058.9
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	19162.9	0.0	19162.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5449.6	28.4
10°-20°	8253.4	43.1
20°-30°	3483.0	18.2
30°-40°	908.4	4.7
40°-50°	459.5	2.4
50°-60°	300.3	1.6
60°-70°	179.9	0.9
70°-80°	94.7	0.5
80°-90°	34.2	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°	19162.9	100.0
0°-180°	19162.9	100.0

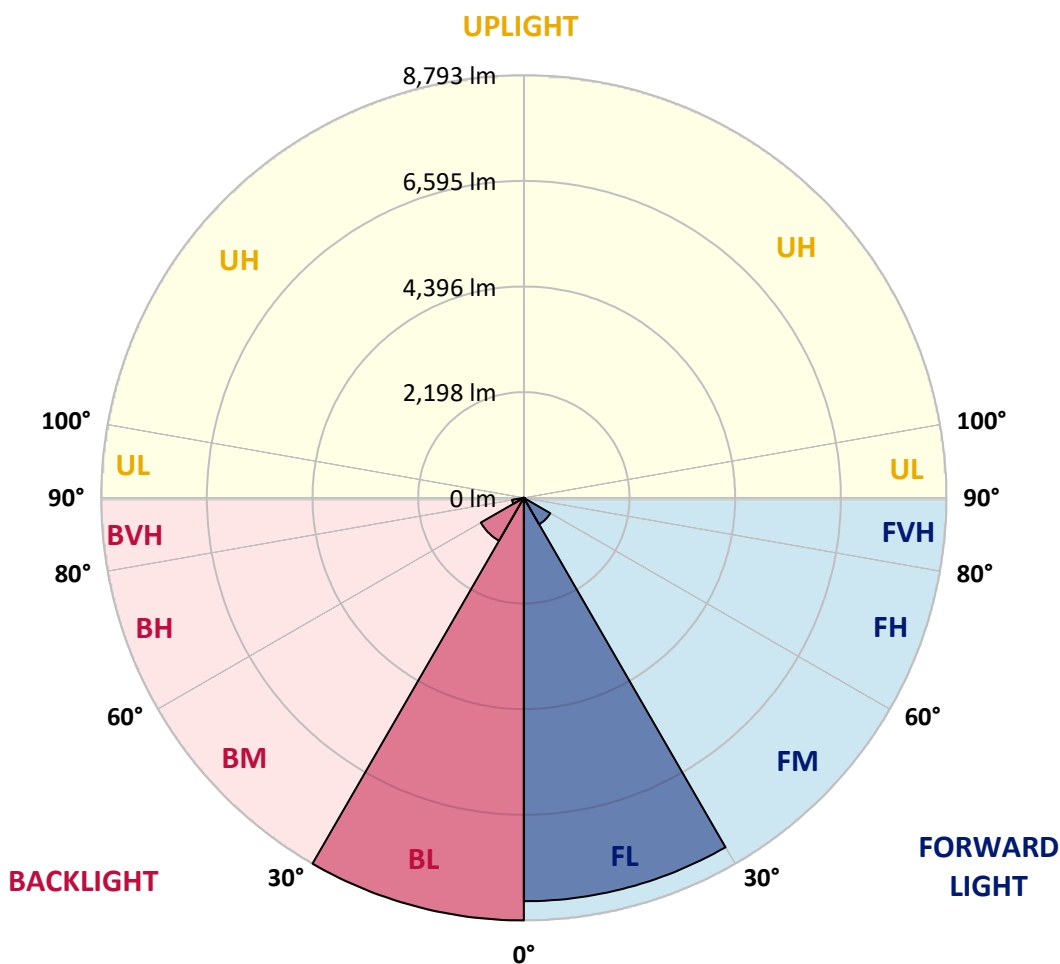


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8393.2	43.8			
FM (30°-60°)	635.6	3.3			
FH (60°-80°)	25.9	0.1			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	8792.7	45.9	B5		
BM (30°-60°)	1032.5	5.4	B2/2500		
BH (60°-80°)	248.7	1.3	B1/500		G0/660
BVH (80°-90°)	30.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	67521.8	67521.8	67521.8	67521.8	67521.8	67521.8	67521.8	67521.8	67521.8	67521.8
2.5°	65554.8	65591.4	65455.8	65748.5	65520.4	66131.6	65828.1	66301.6	66142.3	66407.0
5°	61078.6	61018.4	60979.6	61433.7	61302.4	61958.8	61539.1	61401.4	61827.5	61750.0
7.5°	54319.1	54478.4	54388.0	54506.3	54573.1	55322.0	55558.7	55373.6	55380.1	55487.7
10°	47389.6	47155.0	46821.5	47043.1	47512.3	47839.4	47708.1	47979.3	47919.0	48175.1
12.5°	38863.3	39048.4	38861.2	38663.2	39483.1	39392.7	39620.8	39769.3	39397.0	40225.5
15°	29273.9	29370.8	29598.9	29583.8	30214.4	30341.3	30311.2	30468.3	30177.8	30315.5
17.5°	18806.5	19133.6	19746.9	20784.2	21950.6	22086.2	22051.7	21922.6	21782.7	21627.8
20°	12632.4	12597.9	12819.6	13123.0	15537.6	16176.7	16157.4	15752.8	15167.4	15055.5
22.5°	8849.1	8913.7	8883.5	9184.8	9684.1	11446.6	11229.2	10818.2	10626.7	10501.9
25°	5821.2	5797.5	5948.2	6038.6	6466.8	6682.0	7443.8	7291.0	6996.2	7028.5
27.5°	3548.7	3578.8	3634.8	3712.2	4015.7	3946.8	4381.5	4439.6	4344.9	4243.8
30°	2177.8	2199.4	2244.6	2300.5	2406.0	2330.6	2451.1	2659.9	2625.5	2554.4
32.5°	1478.4	1480.6	1512.9	1534.4	1521.5	1450.5	1489.2	1687.2	1691.5	1685.0
35°	1063.1	1063.1	1093.2	1110.4	1073.9	1015.8	1022.2	1144.9	1198.7	1209.4
37.5°	733.8	736.0	787.6	839.3	798.4	783.3	757.5	839.3	925.4	938.3
40°	557.4	555.2	581.0	619.8	624.1	596.1	604.7	656.4	744.6	755.4
42.5°	451.9	454.1	467.0	462.7	464.8	501.4	514.3	538.0	619.8	639.1
45°	380.9	383.1	389.5	368.0	359.4	415.3	432.6	445.5	514.3	538.0
47.5°	314.2	318.5	325.0	301.3	297.0	333.6	363.7	376.6	436.9	462.7
50°	226.0	230.3	253.9	241.0	253.9	262.5	303.4	322.8	363.7	398.1
52.5°	163.6	167.9	174.3	176.5	208.7	213.0	243.2	273.3	292.7	331.4
55°	129.1	133.4	129.1	124.8	152.8	176.5	187.2	219.5	234.6	279.8
57.5°	73.2	77.5	83.9	96.8	101.1	135.6	146.3	174.3	187.2	230.3
60°	12.9	15.1	23.7	58.1	71.0	86.1	109.8	133.4	150.6	180.8
62.5°	2.2	2.2	4.3	12.9	40.9	60.3	79.6	94.7	109.8	137.7
65°	0.0	0.0	2.2	4.3	10.8	34.4	43.0	56.0	75.3	99.0
67.5°	0.0	0.0	2.2	4.3	6.5	12.9	19.4	34.4	43.0	66.7
70°	0.0	0.0	2.2	4.3	6.5	8.6	10.8	15.1	25.8	40.9
72.5°	0.0	0.0	2.2	4.3	6.5	8.6	10.8	12.9	12.9	25.8
75°	0.0	0.0	2.2	4.3	6.5	10.8	12.9	12.9	10.8	10.8
77.5°	0.0	0.0	2.2	4.3	8.6	12.9	15.1	12.9	8.6	8.6
80°	0.0	0.0	4.3	6.5	10.8	15.1	19.4	15.1	8.6	4.3
82.5°	0.0	0.0	4.3	8.6	10.8	17.2	23.7	19.4	8.6	4.3
85°	0.0	0.0	2.2	6.5	12.9	17.2	23.7	17.2	8.6	2.2
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	12.9	10.8	4.3	2.2
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°
67521.8	0°	67521.8	67521.8	67521.8	67521.8	67521.8	67521.8	67521.8	67521.8	67521.8
65905.6	2.5°	66284.3	66628.7	66699.7	66605.0	66742.7	66495.2	66305.9	65815.2	65520.4
61726.4	5°	62124.5	62072.8	62432.2	62550.6	62535.5	62346.1	62081.5	61784.5	61496.1
55278.9	7.5°	55623.2	55690.0	56017.1	56225.8	56120.4	55883.6	55700.7	55476.9	55283.2
48267.6	10°	48708.8	48250.4	48657.2	48657.2	48939.1	48269.8	48332.2	47768.4	47794.2
40210.5	12.5°	40348.2	40513.9	40580.6	40772.2	40442.9	40087.8	39653.1	39567.0	39298.0
30052.9	15°	30485.5	30958.9	30552.2	31247.3	30911.6	30541.5	30474.7	29807.6	30018.5
21797.8	17.5°	21690.2	22213.1	22376.7	22774.8	22469.2	22249.7	21972.1	21769.8	21754.8
15260.0	20°	15380.5	15905.6	16026.1	16503.8	16469.4	16400.5	16166.0	15909.9	15632.3
10387.8	22.5°	10544.9	10973.1	11373.4	12016.9	12006.1	11803.8	11780.2	11418.6	11425.1
7017.7	25°	7090.9	7402.9	7497.6	8156.2	8229.3	8207.8	8085.1	7749.4	7876.4
4286.8	27.5°	4291.1	4564.4	4885.1	5117.5	5337.0	5302.6	5179.9	4992.7	4910.9
2576.0	30°	2644.8	2767.5	2885.9	3165.6	3296.9	3365.8	3307.7	3133.3	3146.3
1695.8	32.5°	1732.4	1835.7	1921.8	2098.2	2167.1	2294.1	2270.4	2233.8	2190.8
1220.2	35°	1263.2	1338.6	1396.7	1478.4	1566.7	1674.3	1691.5	1676.4	1659.2
942.6	37.5°	964.1	1041.6	1108.3	1142.7	1211.6	1295.5	1342.9	1340.7	1327.8
768.3	40°	783.3	841.4	901.7	946.9	994.2	1056.6	1114.7	1121.2	1121.2
645.6	42.5°	654.2	703.7	764.0	811.3	845.7	903.8	964.1	968.4	964.1
546.6	45°	559.5	602.6	660.7	716.6	744.6	787.6	845.7	858.7	850.0
469.1	47.5°	486.4	525.1	574.6	634.8	665.0	703.7	757.5	772.6	770.4
404.6	50°	417.5	462.7	512.2	561.7	600.4	637.0	688.6	705.9	699.4
344.3	52.5°	368.0	408.9	451.9	505.7	550.9	583.2	624.1	654.2	645.6
290.5	55°	307.7	357.2	402.4	447.6	503.6	538.0	576.7	613.3	604.7
245.3	57.5°	266.9	307.7	359.4	400.3	456.2	497.1	535.9	574.6	572.4
200.1	60°	223.8	266.9	316.3	359.4	411.0	456.2	495.0	538.0	542.3
150.6	62.5°	176.5	228.1	271.2	320.7	372.3	421.8	456.2	499.3	505.7
114.1	65°	133.4	187.2	234.6	281.9	333.6	387.4	417.5	454.1	460.5
83.9	67.5°	99.0	144.2	200.1	243.2	297.0	348.6	376.6	406.7	417.5
51.6	70°	75.3	109.8	167.9	208.7	264.7	305.6	335.7	361.5	370.1
34.4	72.5°	47.3	86.1	135.6	178.6	228.1	264.7	286.2	301.3	314.2
19.4	75°	32.3	66.7	109.8	152.8	189.4	217.4	236.7	249.6	260.4
8.6	77.5°	19.4	51.6	90.4	127.0	150.6	172.2	191.5	200.1	206.6
6.5	80°	10.8	38.7	75.3	103.3	118.4	133.4	148.5	159.2	163.6
4.3	82.5°	6.5	30.1	60.3	79.6	86.1	101.1	116.2	122.7	122.7
2.2	85°	4.3	21.5	40.9	58.1	62.4	73.2	77.5	81.8	86.1
2.2	87.5°	4.3	12.9	25.8	32.3	34.4	38.7	40.9	45.2	49.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
67521.8  
65303.0  
61173.3  
54626.9  
47542.4  
39052.7  
29807.6  
21354.5  
15511.8  
11300.3  
7676.3  
4839.9  
3090.3  
2175.7  
1652.8  
1321.3  
1108.3  
959.8  
850.0  
766.1  
695.1  
643.5  
609.0  
574.6  
544.5  
510.0  
467.0  
421.8  
374.5  
312.0  
258.2  
204.4  
159.2  
120.5  
83.9  
47.3  
0.0

(END OF REPORT)