

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: P637297

Luminaire Tested: **IFLD-S-SA3E-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637297  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-727-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21756.6 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

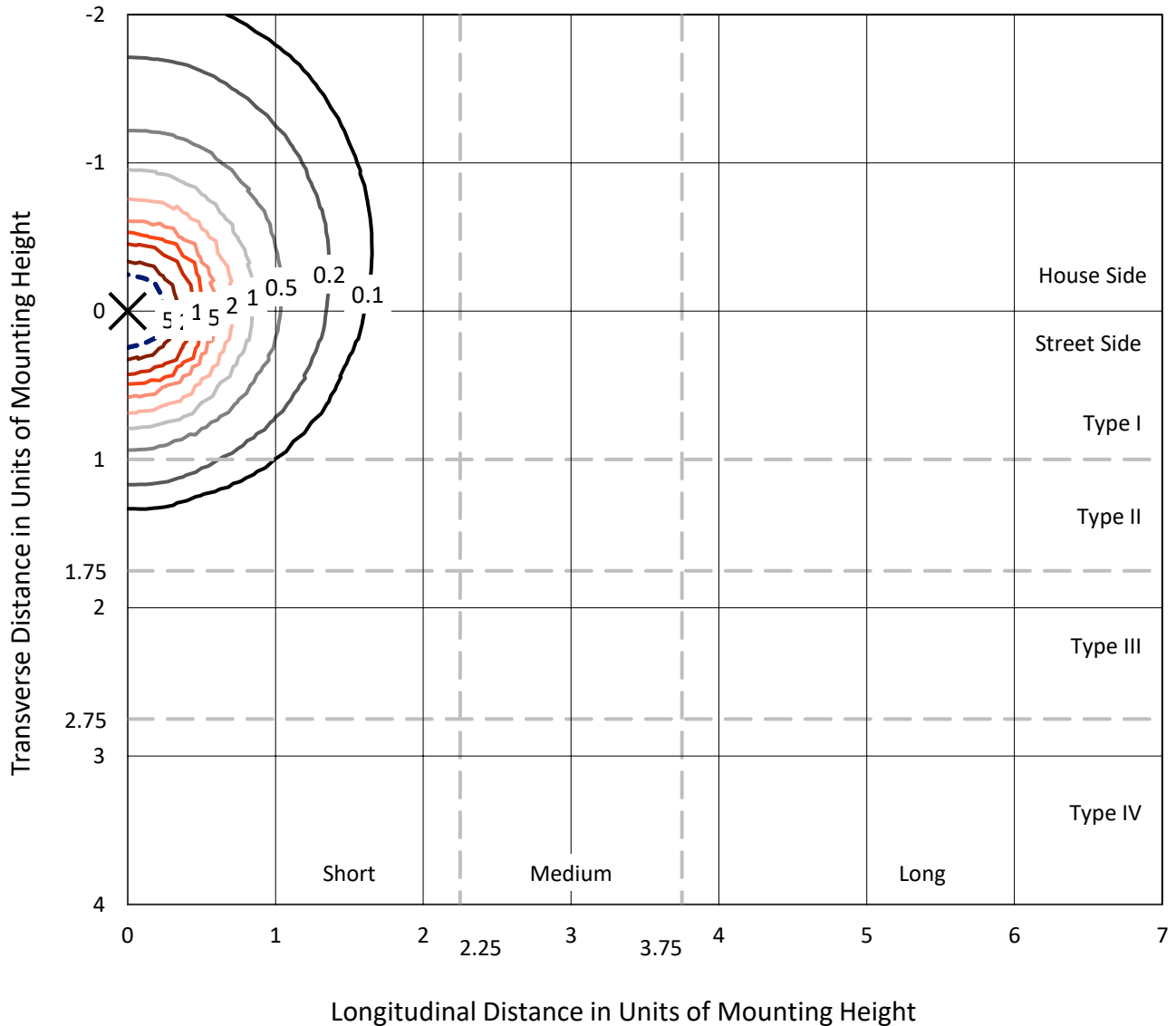
Input Watts (W): 232.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

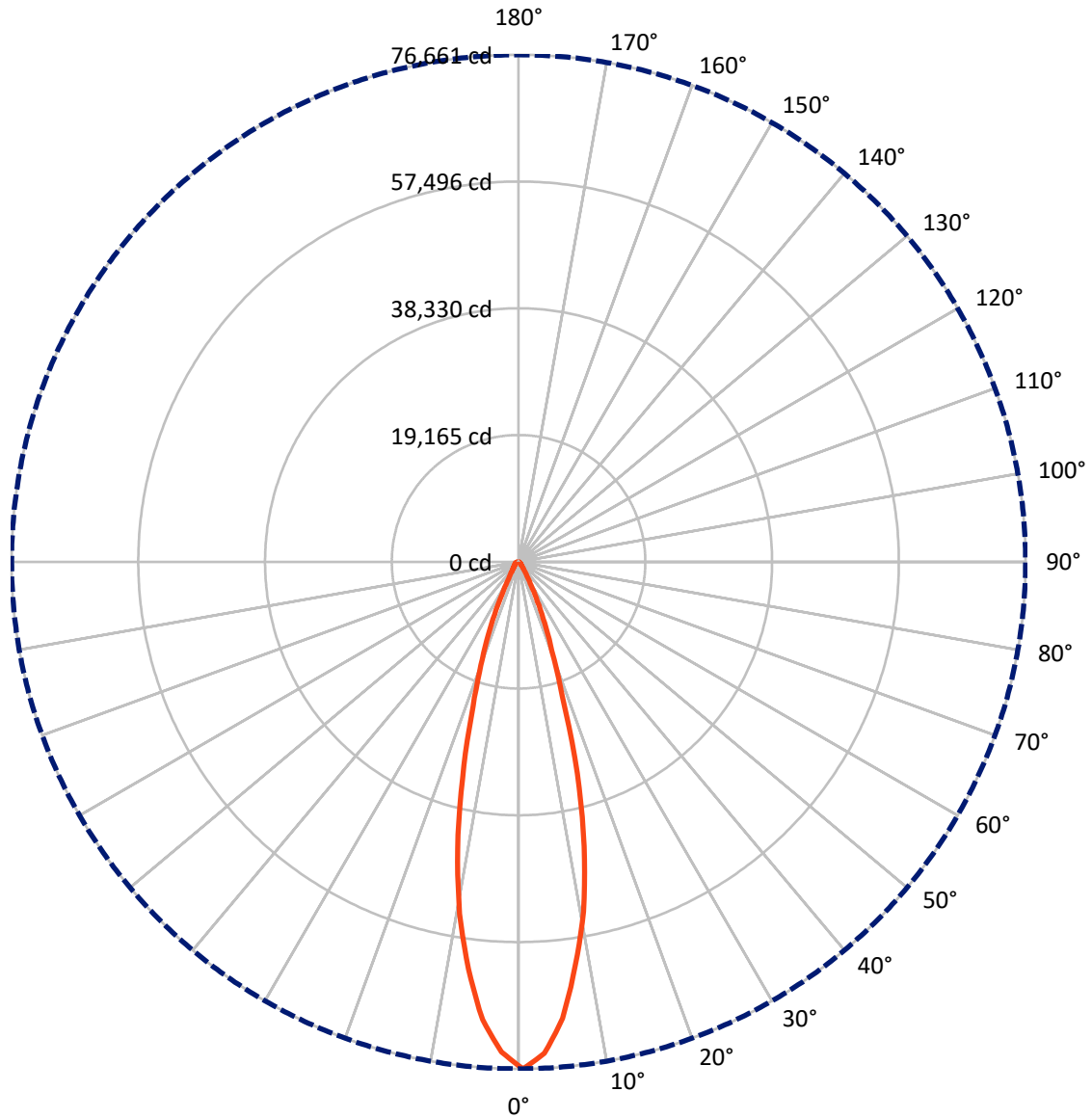
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 191.7 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	11471.6	0.0	11471.6
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	10285.1	0.0	10285.1
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	21756.6	0.0	21756.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6187.2	28.4
10°-20°	9370.5	43.1
20°-30°	3954.4	18.2
30°-40°	1031.3	4.7
40°-50°	521.6	2.4
50°-60°	341.0	1.6
60°-70°	204.3	0.9
70°-80°	107.5	0.5
80°-90°	38.8	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°	21756.6	100.0
0°-180°	21756.6	100.0

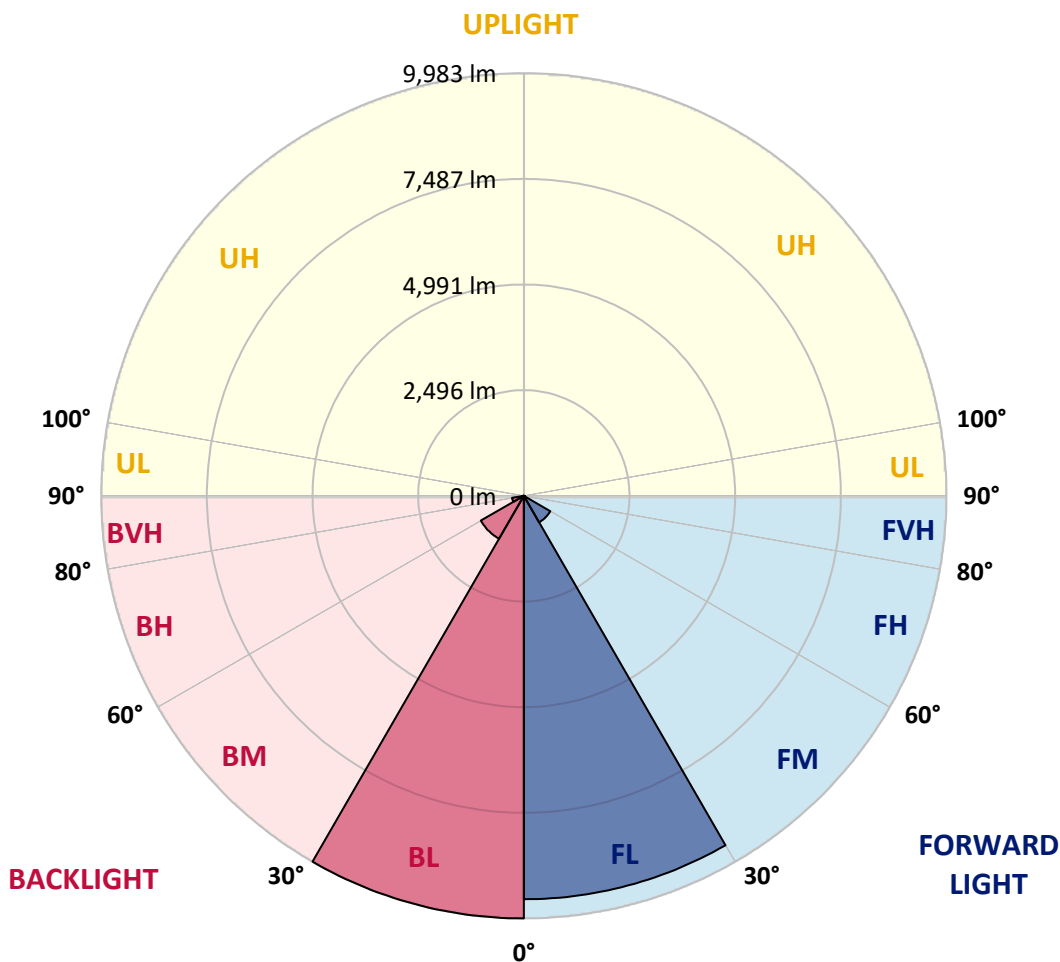


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9529.3	43.8			
FM (30°-60°)	721.7	3.3			
FH (60°-80°)	29.4	0.1			G0/660
FVH (80°-90°)	4.7	0.0			G0/10
BL (0°-30°)	9982.9	45.9	B5		
BM (30°-60°)	1172.3	5.4	B2/2500		
BH (60°-80°)	282.3	1.3	B1/500		G0/660
BVH (80°-90°)	34.1	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°	76660.9	76660.9	76660.9	76660.9	76660.9	76660.9	76660.9	76660.9	76660.9	76660.9
2.5°	74427.8	74469.3	74315.4	74647.7	74388.7	75082.6	74738.1	75275.6	75094.8	75395.3
5°	69345.7	69277.3	69233.3	69748.8	69599.8	70345.0	69868.6	69712.2	70196.0	70108.0
7.5°	61671.3	61852.1	61749.5	61883.9	61959.6	62809.9	63078.6	62868.5	62875.8	62998.0
10°	53803.9	53537.6	53158.8	53410.5	53943.1	54314.5	54165.5	54473.3	54404.9	54695.7
12.5°	44123.5	44333.7	44121.1	43896.3	44827.2	44724.6	44983.6	45152.2	44729.5	45670.1
15°	33236.2	33346.1	33605.1	33588.0	34303.9	34448.1	34413.9	34592.2	34262.4	34418.7
17.5°	21352.0	21723.4	22419.7	23597.4	24921.6	25075.6	25036.5	24889.9	24731.1	24555.2
20°	14342.2	14303.1	14554.7	14899.2	17640.6	18366.3	18344.3	17884.9	17220.4	17093.3
22.5°	10046.8	10120.1	10085.9	10428.0	10994.8	12995.9	12749.1	12282.5	12065.0	11923.3
25°	6609.1	6582.2	6753.3	6855.9	7342.1	7586.4	8451.4	8277.9	7943.2	7979.8
27.5°	4029.0	4063.2	4126.7	4214.7	4559.2	4481.0	4974.6	5040.5	4933.0	4818.2
30°	2472.6	2497.1	2548.4	2611.9	2731.6	2646.1	2782.9	3019.9	2980.8	2900.2
32.5°	1678.5	1681.0	1717.6	1742.1	1727.4	1646.8	1690.8	1915.5	1920.4	1913.1
35°	1207.0	1207.0	1241.2	1260.7	1219.2	1153.2	1160.6	1299.8	1360.9	1373.1
37.5°	833.2	835.6	894.2	952.9	906.5	889.4	860.0	952.9	1050.6	1065.3
40°	632.8	630.4	659.7	703.7	708.6	676.8	686.6	745.2	845.4	857.6
42.5°	513.1	515.5	530.2	525.3	527.8	569.3	583.9	610.8	703.7	725.7
45°	432.5	434.9	442.2	417.8	408.0	471.6	491.1	505.8	583.9	610.8
47.5°	356.7	361.6	368.9	342.1	337.2	378.7	412.9	427.6	496.0	525.3
50°	256.5	261.4	288.3	273.6	288.3	298.1	344.5	366.5	412.9	452.0
52.5°	185.7	190.6	197.9	200.4	237.0	241.9	276.1	310.3	332.3	376.3
55°	146.6	151.5	146.6	141.7	173.5	200.4	212.6	249.2	266.3	317.6
57.5°	83.1	88.0	95.3	109.9	114.8	153.9	166.1	197.9	212.6	261.4
60°	14.7	17.1	26.9	66.0	80.6	97.7	124.6	151.5	171.0	205.2
62.5°	2.4	2.4	4.9	14.7	46.4	68.4	90.4	107.5	124.6	156.4
65°	0.0	0.0	2.4	4.9	12.2	39.1	48.9	63.5	85.5	112.4
67.5°	0.0	0.0	2.4	4.9	7.3	14.7	22.0	39.1	48.9	75.7
70°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	17.1	29.3	46.4
72.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	14.7	14.7	29.3
75°	0.0	0.0	2.4	4.9	7.3	12.2	14.7	14.7	12.2	12.2
77.5°	0.0	0.0	2.4	4.9	9.8	14.7	17.1	14.7	9.8	9.8
80°	0.0	0.0	4.9	7.3	12.2	17.1	22.0	17.1	9.8	4.9
82.5°	0.0	0.0	4.9	9.8	12.2	19.5	26.9	22.0	9.8	4.9
85°	0.0	0.0	2.4	7.3	14.7	19.5	26.9	19.5	9.8	2.4
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	14.7	12.2	4.9	2.4
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°
76660.9	0°	76660.9	76660.9	76660.9	76660.9	76660.9	76660.9	76660.9	76660.9	76660.9
74826.0	2.5°	75256.0	75647.0	75727.6	75620.1	75776.5	75495.5	75280.5	74723.4	74388.7
70081.1	5°	70533.1	70474.5	70882.5	71016.9	70999.8	70784.8	70484.3	70147.1	69819.7
62761.0	7.5°	63151.9	63227.7	63599.1	63836.1	63716.3	63447.6	63239.9	62985.8	62765.9
54800.7	10°	55301.6	54781.2	55243.0	55243.0	55563.1	54803.2	54874.0	54233.9	54263.2
45653.0	12.5°	45809.4	45997.5	46073.3	46290.7	45916.9	45513.8	45020.2	44922.5	44617.1
34120.7	15°	34611.8	35149.3	34687.5	35476.7	35095.5	34675.3	34599.6	33842.1	34081.6
24748.2	17.5°	24626.0	25219.7	25405.4	25857.4	25510.5	25261.3	24946.1	24716.4	24699.3
17325.4	20°	17462.3	18058.4	18195.2	18737.7	18698.6	18620.4	18354.1	18063.3	17748.1
11793.8	22.5°	11972.2	12458.4	12912.8	13643.4	13631.2	13401.5	13374.6	12964.1	12971.5
7967.6	25°	8050.7	8404.9	8512.5	9260.1	9343.2	9318.7	9179.5	8798.3	8942.5
4867.1	27.5°	4871.9	5182.2	5546.3	5810.2	6059.4	6020.3	5881.0	5668.5	5575.6
2924.6	30°	3002.8	3142.1	3276.5	3594.1	3743.1	3821.3	3755.3	3557.4	3572.1
1925.3	32.5°	1966.9	2084.1	2181.9	2382.2	2460.4	2604.6	2577.7	2536.1	2487.3
1385.4	35°	1434.2	1519.7	1585.7	1678.5	1778.7	1900.9	1920.4	1903.3	1883.8
1070.2	37.5°	1094.6	1182.6	1258.3	1297.4	1375.6	1470.9	1524.6	1522.2	1507.5
872.3	40°	889.4	955.3	1023.7	1075.1	1128.8	1199.7	1265.6	1273.0	1273.0
733.0	42.5°	742.8	799.0	867.4	921.1	960.2	1026.2	1094.6	1099.5	1094.6
620.6	45°	635.3	684.1	750.1	813.6	845.4	894.2	960.2	974.9	965.1
532.6	47.5°	552.2	596.2	652.4	720.8	755.0	799.0	860.0	877.1	874.7
459.3	50°	474.0	525.3	581.5	637.7	681.7	723.2	781.9	801.4	794.1
390.9	52.5°	417.8	464.2	513.1	574.2	625.5	662.1	708.6	742.8	733.0
329.8	55°	349.4	405.6	456.9	508.2	571.7	610.8	654.8	696.3	686.6
278.5	57.5°	303.0	349.4	408.0	454.5	518.0	564.4	608.4	652.4	649.9
227.2	60°	254.1	303.0	359.2	408.0	466.7	518.0	562.0	610.8	615.7
171.0	62.5°	200.4	259.0	307.9	364.1	422.7	478.9	518.0	566.8	574.2
129.5	65°	151.5	212.6	266.3	320.1	378.7	439.8	474.0	515.5	522.9
95.3	67.5°	112.4	163.7	227.2	276.1	337.2	395.8	427.6	461.8	474.0
58.6	70°	85.5	124.6	190.6	237.0	300.5	346.9	381.2	410.5	420.2
39.1	72.5°	53.8	97.7	153.9	202.8	259.0	300.5	325.0	342.1	356.7
22.0	75°	36.6	75.7	124.6	173.5	215.0	246.8	268.8	283.4	295.6
9.8	77.5°	22.0	58.6	102.6	144.2	171.0	195.5	217.5	227.2	234.6
7.3	80°	12.2	44.0	85.5	117.3	134.4	151.5	168.6	180.8	185.7
4.9	82.5°	7.3	34.2	68.4	90.4	97.7	114.8	131.9	139.3	139.3
2.4	85°	4.9	24.4	46.4	66.0	70.9	83.1	88.0	92.8	97.7
2.4	87.5°	4.9	14.7	29.3	36.6	39.1	44.0	46.4	51.3	56.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
76660.9  
74141.9  
69453.2  
62020.7  
53977.4  
44338.5  
33842.1  
24244.9  
17611.3  
12829.8  
8715.2  
5495.0  
3508.6  
2470.2  
1876.5  
1500.2  
1258.3  
1089.7  
965.1  
869.8  
789.2  
730.5  
691.5  
652.4  
618.2  
579.1  
530.2  
478.9  
425.1  
354.3  
293.2  
232.1  
180.8  
136.8  
95.3  
53.8  
0.0

(END OF REPORT)