

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: P637354

Luminaire Tested: **IFLD-S-SA3D-735-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637354  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-735-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22171.2 lumens  
Efficiency: N/A  
Efficacy: 120.4 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

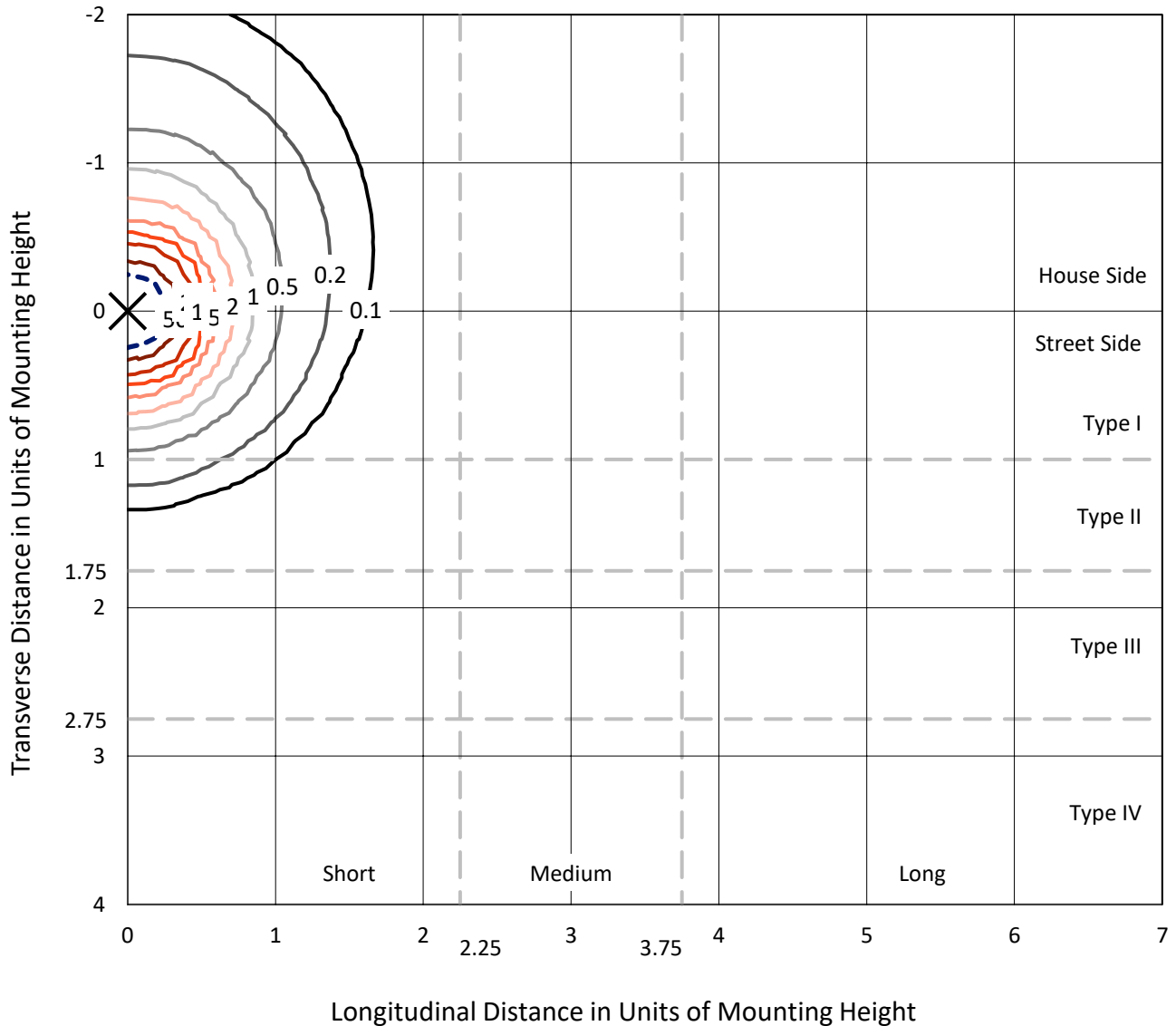
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

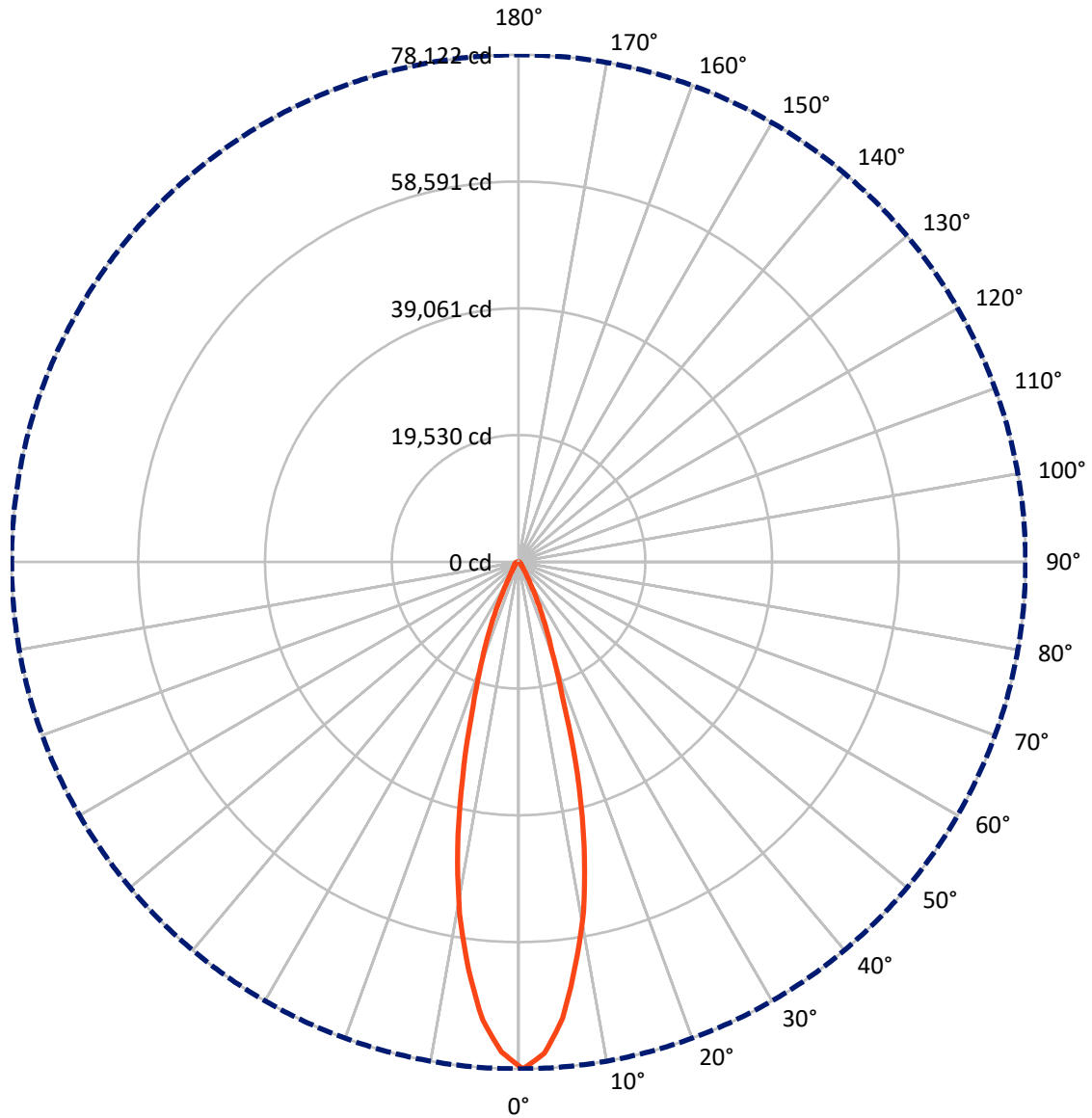
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 195.3 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	11690.2	0.0	11690.2
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	10481.1	0.0	10481.1
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	22171.2	0.0	22171.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6305.1	28.4
10°-20°	9549.1	43.1
20°-30°	4029.8	18.2
30°-40°	1051.0	4.7
40°-50°	531.6	2.4
50°-60°	347.5	1.6
60°-70°	208.2	0.9
70°-80°	109.5	0.5
80°-90°	39.6	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°	22171.2	100.0
0°-180°	22171.2	100.0

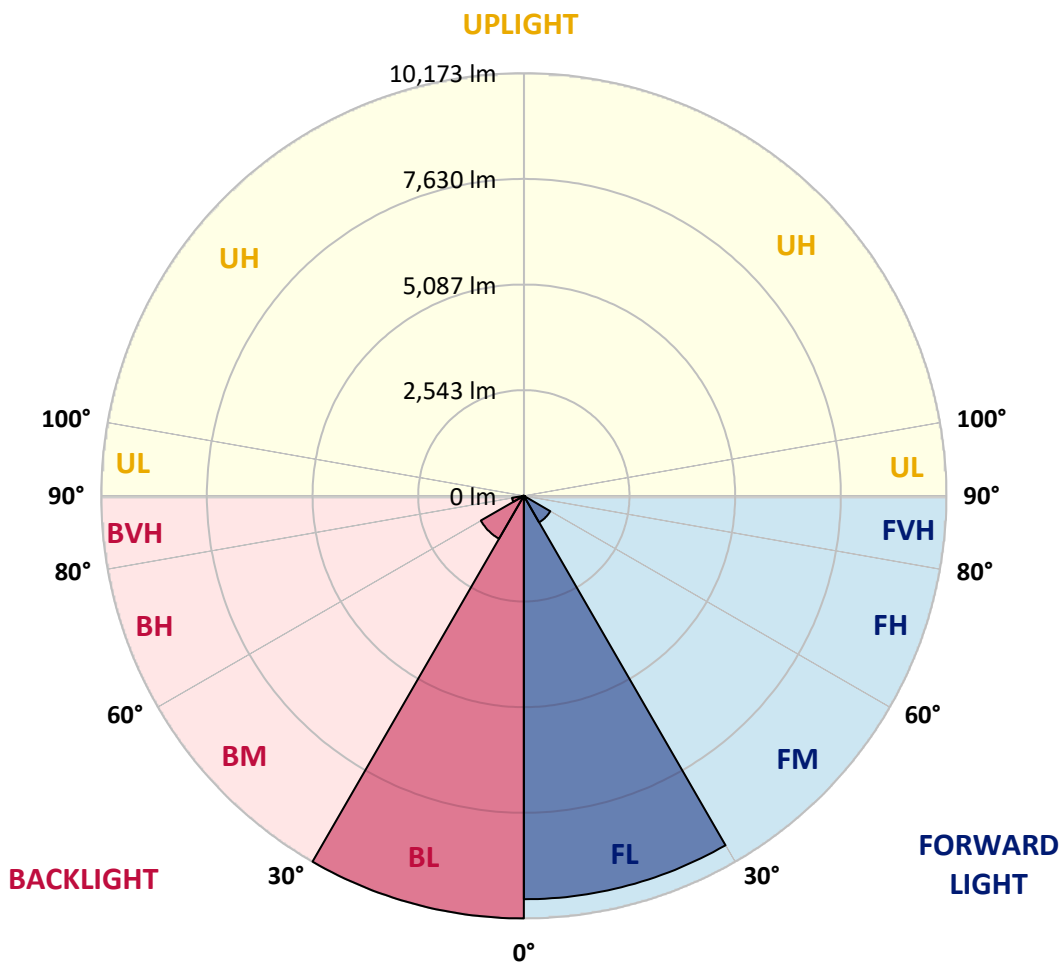


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9710.9	43.8			
FM (30°-60°)	735.4	3.3			
FH (60°-80°)	30.0	0.1			G0/660
FVH (80°-90°)	4.8	0.0			G0/10
BL (0°-30°)	10173.1	45.9	B5		
BM (30°-60°)	1194.6	5.4	B2/2500		
BH (60°-80°)	287.7	1.3	B1/500		G0/660
BVH (80°-90°)	34.7	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°	78121.9	78121.9	78121.9	78121.9	78121.9	78121.9	78121.9	78121.9	78121.9	78121.9
2.5°	75846.2	75888.5	75731.6	76070.2	75806.3	76513.4	76162.4	76710.1	76525.9	76832.1
5°	70667.2	70597.5	70552.7	71078.1	70926.2	71685.6	71200.1	71040.7	71533.7	71444.1
7.5°	62846.6	63030.8	62926.3	63063.2	63140.4	64006.9	64280.8	64066.6	64074.1	64198.6
10°	54829.2	54557.8	54171.9	54428.4	54971.2	55349.6	55197.7	55511.5	55441.7	55738.0
12.5°	44964.4	45178.5	44961.9	44732.9	45681.5	45576.9	45840.8	46012.6	45581.9	46540.5
15°	33869.6	33981.6	34245.6	34228.1	34957.7	35104.6	35069.7	35251.5	34915.3	35074.7
17.5°	21758.9	22137.4	22847.0	24047.1	25396.6	25553.4	25513.6	25364.2	25202.4	25023.1
20°	14615.5	14575.6	14832.1	15183.2	17976.8	18716.3	18693.9	18225.8	17548.5	17419.1
22.5°	10238.3	10313.0	10278.1	10626.7	11204.4	13243.6	12992.1	12516.5	12294.9	12150.5
25°	6735.1	6707.7	6882.0	6986.6	7482.0	7731.0	8612.4	8435.7	8094.5	8131.9
27.5°	4105.8	4140.6	4205.4	4295.0	4646.1	4566.4	5069.4	5136.6	5027.0	4910.0
30°	2519.7	2544.6	2596.9	2661.7	2783.7	2696.5	2836.0	3077.5	3037.6	2955.5
32.5°	1710.5	1713.0	1750.4	1775.3	1760.3	1678.2	1723.0	1952.1	1957.0	1949.6
35°	1230.0	1230.0	1264.8	1284.8	1242.4	1175.2	1182.7	1324.6	1386.9	1399.3
37.5°	849.0	851.5	911.3	971.0	923.7	906.3	876.4	971.0	1070.6	1085.6
40°	644.9	642.4	672.3	717.1	722.1	689.7	699.7	759.4	861.5	873.9
42.5°	522.9	525.4	540.3	535.3	537.8	580.1	595.1	622.5	717.1	739.5
45°	440.7	443.2	450.7	425.8	415.8	480.5	500.5	515.4	595.1	622.5
47.5°	363.5	368.5	376.0	348.6	343.6	385.9	420.8	435.7	505.4	535.3
50°	261.4	266.4	293.8	278.9	293.8	303.8	351.1	373.5	420.8	460.6
52.5°	189.2	194.2	201.7	204.2	241.5	246.5	281.4	316.2	338.6	383.4
55°	149.4	154.4	149.4	144.4	176.8	204.2	216.6	254.0	271.4	323.7
57.5°	84.7	89.6	97.1	112.0	117.0	156.9	169.3	201.7	216.6	266.4
60°	14.9	17.4	27.4	67.2	82.2	99.6	127.0	154.4	174.3	209.1
62.5°	2.5	2.5	5.0	14.9	47.3	69.7	92.1	109.6	127.0	159.4
65°	0.0	0.0	2.5	5.0	12.4	39.8	49.8	64.7	87.1	114.5
67.5°	0.0	0.0	2.5	5.0	7.5	14.9	22.4	39.8	49.8	77.2
70°	0.0	0.0	2.5	5.0	7.5	10.0	12.4	17.4	29.9	47.3
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.4	14.9	14.9	29.9
75°	0.0	0.0	2.5	5.0	7.5	12.4	14.9	14.9	12.4	12.4
77.5°	0.0	0.0	2.5	5.0	10.0	14.9	17.4	14.9	10.0	10.0
80°	0.0	0.0	5.0	7.5	12.4	17.4	22.4	17.4	10.0	5.0
82.5°	0.0	0.0	5.0	10.0	12.4	19.9	27.4	22.4	10.0	5.0
85°	0.0	0.0	2.5	7.5	14.9	19.9	27.4	19.9	10.0	2.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	14.9	12.4	5.0	2.5
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°
78121.9	0°	78121.9	78121.9	78121.9	78121.9	78121.9	78121.9	78121.9	78121.9	78121.9
76252.0	2.5°	76690.2	77088.6	77170.8	77061.2	77220.6	76934.2	76715.1	76147.4	75806.3
71416.7	5°	71877.3	71817.6	72233.4	72370.3	72352.9	72133.8	71827.5	71483.9	71150.3
63957.1	7.5°	64355.5	64432.6	64811.1	65052.6	64930.6	64656.7	64445.1	64186.1	63962.1
55845.1	10°	56355.5	55825.2	56295.8	56295.8	56621.9	55847.6	55919.8	55267.5	55297.3
46523.1	12.5°	46682.4	46874.1	46951.3	47172.9	46792.0	46381.1	45878.2	45778.6	45467.4
34770.9	15°	35271.4	35819.1	35348.6	36152.8	35764.4	35336.1	35258.9	34487.1	34731.1
25219.8	17.5°	25095.3	25700.4	25889.6	26350.2	25996.6	25742.7	25421.5	25187.4	25170.0
17655.6	20°	17795.0	18402.6	18542.0	19094.7	19054.9	18975.2	18703.8	18407.5	18086.4
12018.6	22.5°	12200.3	12695.8	13158.9	13903.4	13890.9	13656.9	13629.5	13211.2	13218.7
8119.4	25°	8204.1	8565.1	8674.7	9436.6	9521.2	9496.3	9354.4	8966.0	9112.9
4959.8	27.5°	4964.8	5281.0	5652.0	5920.9	6174.9	6135.0	5993.1	5776.5	5681.9
2980.4	30°	3060.0	3202.0	3338.9	3662.6	3814.5	3894.1	3826.9	3625.2	3640.2
1962.0	32.5°	2004.3	2123.9	2223.4	2427.6	2507.3	2654.2	2626.8	2584.5	2534.7
1411.8	35°	1461.5	1548.7	1615.9	1710.5	1812.6	1937.1	1957.0	1939.6	1919.7
1090.6	37.5°	1115.5	1205.1	1282.3	1322.1	1401.8	1498.9	1553.7	1551.2	1536.2
888.9	40°	906.3	973.5	1043.3	1095.5	1150.3	1222.5	1289.7	1297.2	1297.2
747.0	42.5°	756.9	814.2	883.9	938.7	978.5	1045.7	1115.5	1120.4	1115.5
632.4	45°	647.4	697.2	764.4	829.1	861.5	911.3	978.5	993.5	983.5
542.8	47.5°	562.7	607.5	664.8	734.5	769.4	814.2	876.4	893.9	891.4
468.1	50°	483.0	535.3	592.6	649.9	694.7	737.0	796.8	816.7	809.2
398.4	52.5°	425.8	473.1	522.9	585.1	637.4	674.8	722.1	756.9	747.0
336.1	55°	356.1	413.3	465.6	517.9	582.6	622.5	667.3	709.6	699.7
283.8	57.5°	308.7	356.1	415.8	463.1	527.9	575.2	620.0	664.8	662.3
231.6	60°	258.9	308.7	366.0	415.8	475.6	527.9	572.7	622.5	627.4
174.3	62.5°	204.2	263.9	313.7	371.0	430.7	488.0	527.9	577.6	585.1
132.0	65°	154.4	216.6	271.4	326.2	385.9	448.2	483.0	525.4	532.8
97.1	67.5°	114.5	166.8	231.6	281.4	343.6	403.4	435.7	470.6	483.0
59.8	70°	87.1	127.0	194.2	241.5	306.3	353.6	388.4	418.3	428.3
39.8	72.5°	54.8	99.6	156.9	206.7	263.9	306.3	331.2	348.6	363.5
22.4	75°	37.3	77.2	127.0	176.8	219.1	251.5	273.9	288.8	301.3
10.0	77.5°	22.4	59.8	104.6	146.9	174.3	199.2	221.6	231.6	239.0
7.5	80°	12.4	44.8	87.1	119.5	136.9	154.4	171.8	184.2	189.2
5.0	82.5°	7.5	34.9	69.7	92.1	99.6	117.0	134.5	141.9	141.9
2.5	85°	5.0	24.9	47.3	67.2	72.2	84.7	89.6	94.6	99.6
2.5	87.5°	5.0	14.9	29.9	37.3	39.8	44.8	47.3	52.3	57.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
78121.9  
75554.8  
70776.8  
63202.6  
55006.0  
45183.5  
34487.1  
24706.9  
17946.9  
13074.3  
8881.3  
5599.7  
3575.4  
2517.2  
1912.2  
1528.8  
1282.3  
1110.5  
983.5  
886.4  
804.2  
744.5  
704.6  
664.8  
629.9  
590.1  
540.3  
488.0  
433.2  
361.0  
298.8  
236.5  
184.2  
139.4  
97.1  
54.8  
0.0

(END OF REPORT)