

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: P637407

Luminaire Tested: **IFLD-S-SA2D-750-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637407  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-750-U-44-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor  
Light Source: (32) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15429.5 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

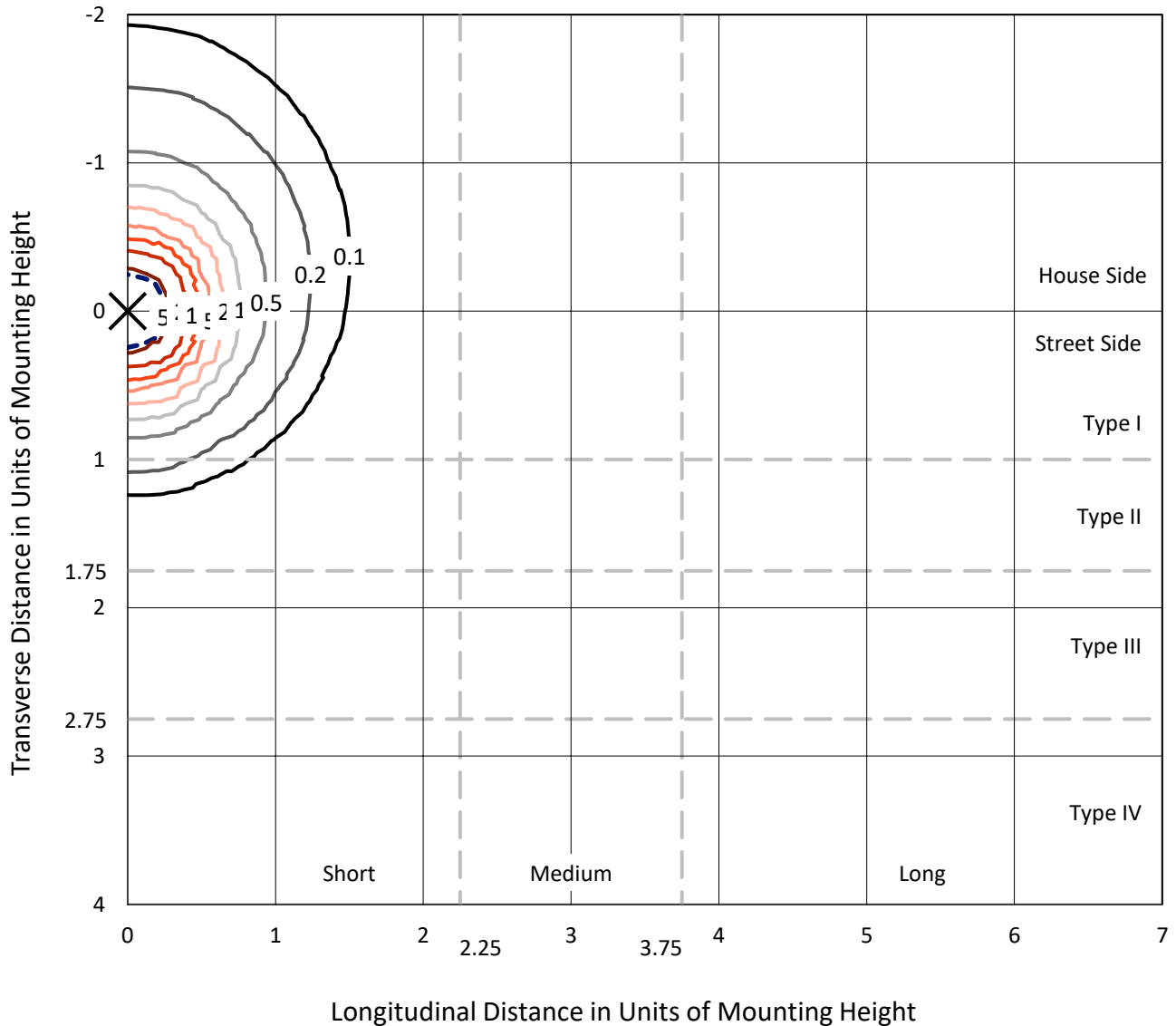
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

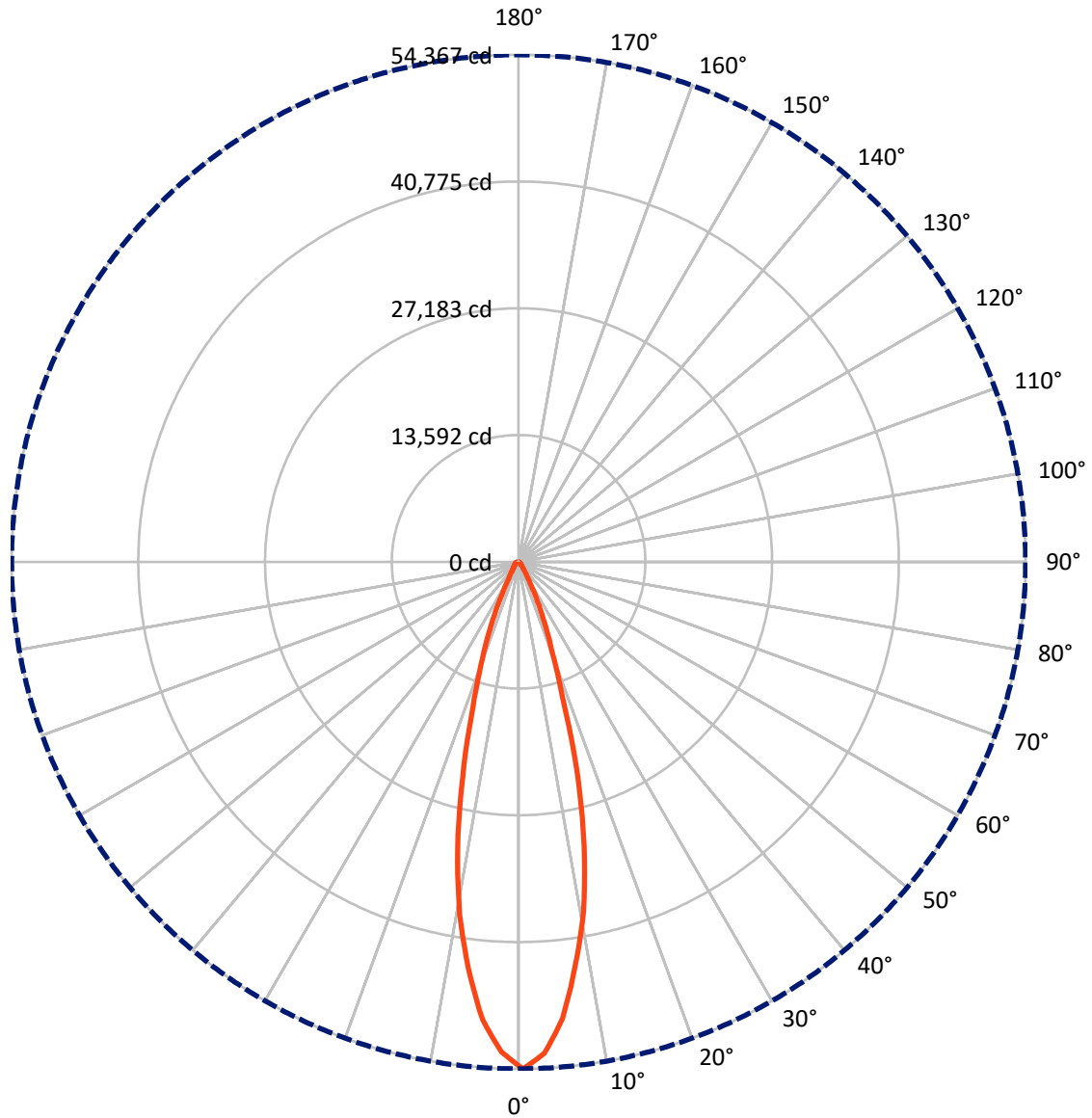
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 135.9 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	8135.5	0.0	8135.5
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	7294.0	0.0	7294.0
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	15429.5	0.0	15429.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4387.9	28.4
10°-20°	6645.4	43.1
20°-30°	2804.4	18.2
30°-40°	731.4	4.7
40°-50°	369.9	2.4
50°-60°	241.8	1.6
60°-70°	144.9	0.9
70°-80°	76.2	0.5
80°-90°	27.5	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°	15429.5	100.0
0°-180°	15429.5	100.0

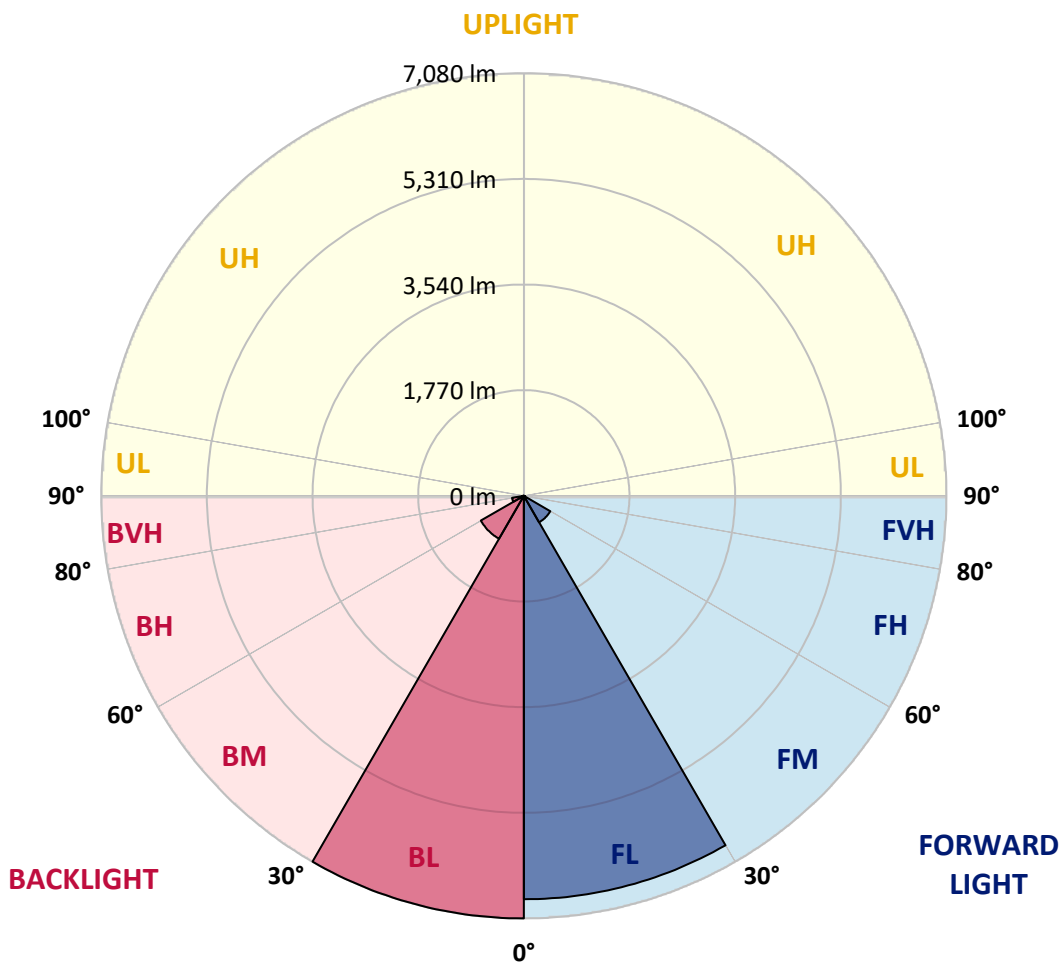


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6758.0	43.8			
FM (30°-60°)	511.8	3.3			
FH (60°-80°)	20.9	0.1			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	7079.7	45.9	B5		
BM (30°-60°)	831.4	5.4	B1/1000		
BH (60°-80°)	200.2	1.3	B1/500		G0/660
BVH (80°-90°)	24.2	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°	54366.8	54366.8	54366.8	54366.8	54366.8	54366.8	54366.8	54366.8	54366.8	54366.8
2.5°	52783.1	52812.5	52703.4	52939.0	52755.4	53247.5	53003.1	53384.3	53256.1	53469.2
5°	49179.0	49130.4	49099.2	49464.9	49359.2	49887.7	49549.8	49438.9	49782.0	49719.6
7.5°	43736.4	43864.6	43791.8	43887.1	43940.8	44543.8	44734.4	44585.4	44590.6	44677.3
10°	38156.9	37968.1	37699.5	37877.9	38255.7	38519.1	38413.4	38631.7	38583.2	38789.4
12.5°	31291.8	31440.8	31290.0	31130.6	31790.8	31718.0	31901.7	32021.2	31721.5	32388.6
15°	23570.6	23648.6	23832.3	23820.1	24327.8	24430.1	24405.8	24532.3	24298.4	24409.3
17.5°	15142.5	15405.9	15899.7	16734.9	17674.1	17783.2	17755.5	17651.5	17538.9	17414.2
20°	10171.3	10143.5	10322.0	10566.3	12510.5	13025.1	13009.5	12683.7	12212.4	12122.3
22.5°	7125.1	7177.1	7152.8	7395.4	7797.4	9216.5	9041.5	8710.5	8556.3	8455.8
25°	4687.1	4668.0	4789.3	4862.1	5206.9	5380.2	5993.6	5870.6	5633.2	5659.2
27.5°	2857.3	2881.6	2926.6	2989.0	3233.3	3177.9	3527.9	3574.7	3498.4	3417.0
30°	1753.5	1770.9	1807.3	1852.3	1937.2	1876.6	1973.6	2141.7	2114.0	2056.8
32.5°	1190.4	1192.1	1218.1	1235.5	1225.1	1167.9	1199.1	1358.5	1361.9	1356.7
35°	856.0	856.0	880.2	894.1	864.6	817.9	823.1	921.8	965.1	973.8
37.5°	590.9	592.6	634.2	675.8	642.9	630.7	609.9	675.8	745.1	755.5
40°	448.8	447.0	467.8	499.0	502.5	480.0	486.9	528.5	599.5	608.2
42.5°	363.9	365.6	376.0	372.5	374.3	403.7	414.1	433.2	499.0	514.6
45°	306.7	308.4	313.6	296.3	289.4	334.4	348.3	358.7	414.1	433.2
47.5°	253.0	256.4	261.6	242.6	239.1	268.6	292.8	303.2	351.7	372.5
50°	181.9	185.4	204.5	194.1	204.5	211.4	244.3	259.9	292.8	320.6
52.5°	131.7	135.2	140.4	142.1	168.1	171.5	195.8	220.1	235.7	266.8
55°	104.0	107.4	104.0	100.5	123.0	142.1	150.7	176.7	188.9	225.3
57.5°	58.9	62.4	67.6	78.0	81.4	109.2	117.8	140.4	150.7	185.4
60°	10.4	12.1	19.1	46.8	57.2	69.3	88.4	107.4	121.3	145.6
62.5°	1.7	1.7	3.5	10.4	32.9	48.5	64.1	76.2	88.4	110.9
65°	0.0	0.0	1.7	3.5	8.7	27.7	34.7	45.1	60.6	79.7
67.5°	0.0	0.0	1.7	3.5	5.2	10.4	15.6	27.7	34.7	53.7
70°	0.0	0.0	1.7	3.5	5.2	6.9	8.7	12.1	20.8	32.9
72.5°	0.0	0.0	1.7	3.5	5.2	6.9	8.7	10.4	10.4	20.8
75°	0.0	0.0	1.7	3.5	5.2	8.7	10.4	10.4	8.7	8.7
77.5°	0.0	0.0	1.7	3.5	6.9	10.4	12.1	10.4	6.9	6.9
80°	0.0	0.0	3.5	5.2	8.7	12.1	15.6	12.1	6.9	3.5
82.5°	0.0	0.0	3.5	6.9	8.7	13.9	19.1	15.6	6.9	3.5
85°	0.0	0.0	1.7	5.2	10.4	13.9	19.1	13.9	6.9	1.7
87.5°	0.0	0.0	1.7	1.7	3.5	5.2	10.4	8.7	3.5	1.7
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°
54366.8	0°	54366.8	54366.8	54366.8	54366.8	54366.8	54366.8	54366.8	54366.8	54366.8
53065.5	2.5°	53370.5	53647.7	53704.9	53628.7	53739.6	53540.3	53387.8	52992.7	52755.4
49700.5	5°	50021.1	49979.5	50268.9	50364.2	50352.0	50199.5	49986.4	49747.3	49515.1
44509.2	7.5°	44786.4	44840.1	45103.5	45271.6	45186.7	44996.1	44848.8	44668.6	44512.7
38863.9	10°	39219.1	38850.0	39177.5	39177.5	39404.5	38865.6	38915.9	38461.9	38482.7
32376.5	12.5°	32487.4	32620.8	32674.5	32828.7	32563.6	32277.7	31927.7	31858.4	31641.8
24197.9	15°	24546.2	24927.4	24599.9	25159.6	24889.2	24591.2	24537.5	24000.3	24170.2
17551.0	17.5°	17464.4	17885.5	18017.2	18337.7	18091.7	17914.9	17691.4	17528.5	17516.4
12286.9	20°	12384.0	12806.8	12903.8	13288.5	13260.7	13205.3	13016.4	12810.2	12586.7
8364.0	22.5°	8490.5	8835.3	9157.6	9675.7	9667.0	9504.1	9485.1	9194.0	9199.2
5650.5	25°	5709.4	5960.7	6036.9	6567.1	6626.0	6608.7	6509.9	6239.6	6341.9
3451.6	27.5°	3455.1	3675.2	3933.3	4120.5	4297.2	4269.5	4170.7	4020.0	3954.1
2074.1	30°	2129.6	2228.3	2323.6	2548.9	2654.6	2710.0	2663.2	2522.9	2533.3
1365.4	32.5°	1394.9	1478.0	1547.3	1689.4	1744.9	1847.1	1828.1	1798.6	1763.9
982.5	35°	1017.1	1077.8	1124.6	1190.4	1261.4	1348.1	1361.9	1349.8	1336.0
758.9	37.5°	776.3	838.7	892.4	920.1	975.5	1043.1	1081.2	1079.5	1069.1
618.6	40°	630.7	677.5	726.0	762.4	800.5	850.8	897.6	902.8	902.8
519.8	42.5°	526.8	566.6	615.1	653.2	681.0	727.8	776.3	779.7	776.3
440.1	45°	450.5	485.2	532.0	577.0	599.5	634.2	681.0	691.4	684.4
377.7	47.5°	391.6	422.8	462.6	511.2	535.4	566.6	609.9	622.1	620.3
325.8	50°	336.2	372.5	412.4	452.2	483.4	512.9	554.5	568.3	563.1
277.2	52.5°	296.3	329.2	363.9	407.2	443.6	469.6	502.5	526.8	519.8
233.9	55°	247.8	287.6	324.0	360.4	405.5	433.2	464.4	493.8	486.9
197.5	57.5°	214.9	247.8	289.4	322.3	367.3	400.3	431.5	462.6	460.9
161.1	60°	180.2	214.9	254.7	289.4	331.0	367.3	398.5	433.2	436.7
121.3	62.5°	142.1	183.7	218.3	258.2	299.8	339.6	367.3	402.0	407.2
91.8	65°	107.4	150.7	188.9	227.0	268.6	311.9	336.2	365.6	370.8
67.6	67.5°	79.7	116.1	161.1	195.8	239.1	280.7	303.2	327.5	336.2
41.6	70°	60.6	88.4	135.2	168.1	213.1	246.1	270.3	291.1	298.0
27.7	72.5°	38.1	69.3	109.2	143.8	183.7	213.1	230.5	242.6	253.0
15.6	75°	26.0	53.7	88.4	123.0	152.5	175.0	190.6	201.0	209.7
6.9	77.5°	15.6	41.6	72.8	102.2	121.3	138.6	154.2	161.1	166.3
5.2	80°	8.7	31.2	60.6	83.2	95.3	107.4	119.6	128.2	131.7
3.5	82.5°	5.2	24.3	48.5	64.1	69.3	81.4	93.6	98.8	98.8
1.7	85°	3.5	17.3	32.9	46.8	50.2	58.9	62.4	65.8	69.3
1.7	87.5°	3.5	10.4	20.8	26.0	27.7	31.2	32.9	36.4	39.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
<u>54366.8</u>
52580.3
49255.2
43984.2
38279.9
31444.2
24000.3
17194.1
12489.7
9098.7
6180.7
3897.0
2488.2
1751.8
1330.8
1063.9
892.4
772.8
684.4
616.9
559.7
518.1
490.4
462.6
438.4
410.7
376.0
339.6
301.5
251.2
207.9
164.6
128.2
97.0
67.6
38.1
0.0

(END OF REPORT)