

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: P637353

Luminaire Tested: **IFLD-S-SA3C-735-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637353  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-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: 20149.8 lumens  
Efficiency: N/A  
Efficacy: 125.3 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

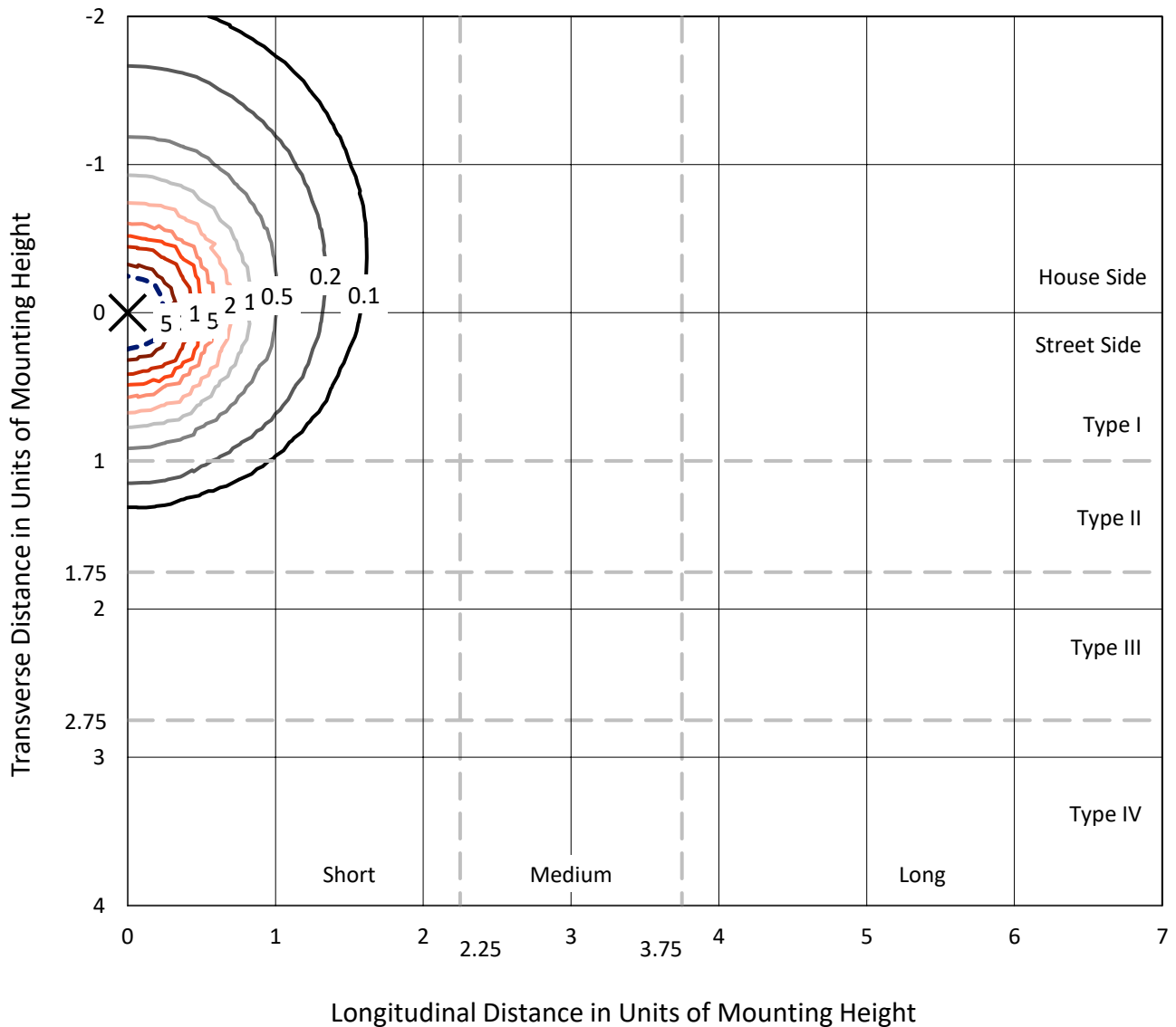
Input Watts (W): 160.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

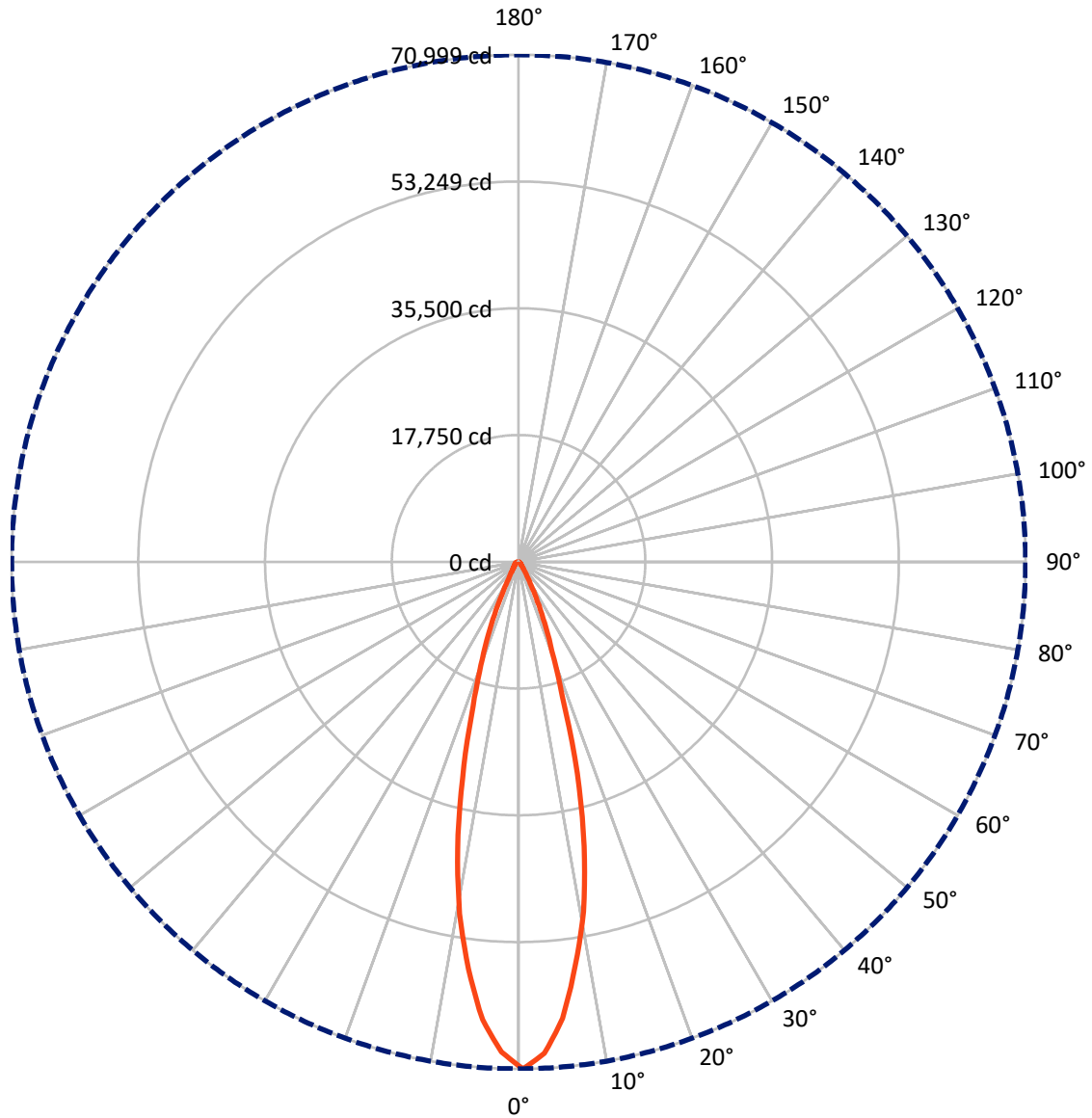
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 177.5 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	10624.3	0.0	10624.3
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	9525.5	0.0	9525.5
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	20149.8	0.0	20149.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5730.3	28.4
10°-20°	8678.4	43.1
20°-30°	3662.3	18.2
30°-40°	955.2	4.7
40°-50°	483.1	2.4
50°-60°	315.8	1.6
60°-70°	189.2	0.9
70°-80°	99.5	0.5
80°-90°	36.0	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°	20149.8	100.0
0°-180°	20149.8	100.0

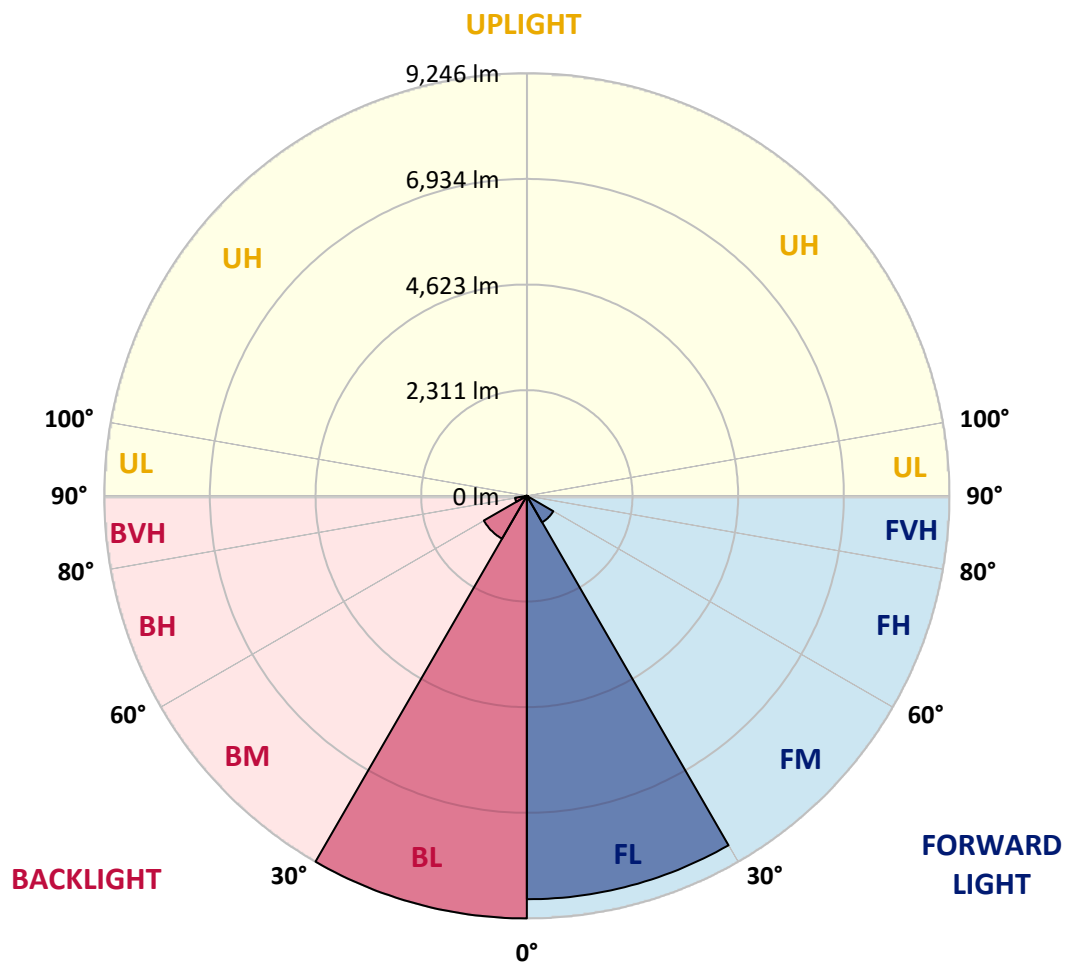


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8825.5	43.8			
FM (30°-60°)	668.4	3.3			
FH (60°-80°)	27.2	0.1			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	9245.6	45.9	B5		
BM (30°-60°)	1085.7	5.4	B2/2500		
BH (60°-80°)	261.5	1.3	B1/500		G0/660
BVH (80°-90°)	31.6	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°	70999.1	70999.1	70999.1	70999.1	70999.1	70999.1	70999.1	70999.1	70999.1	70999.1
2.5°	68930.8	68969.3	68826.8	69134.5	68894.6	69537.3	69218.2	69716.0	69548.6	69826.9
5°	64224.1	64160.8	64120.0	64597.5	64459.5	65149.6	64708.4	64563.5	65011.6	64930.1
7.5°	57116.5	57284.0	57188.9	57313.4	57383.5	58171.0	58419.9	58225.3	58232.1	58345.2
10°	49830.2	49583.5	49232.8	49465.8	49959.1	50303.1	50165.1	50450.2	50386.8	50656.1
12.5°	40864.8	41059.4	40862.5	40654.3	41516.5	41421.4	41661.3	41817.4	41425.9	42297.1
15°	30781.5	30883.3	31123.2	31107.4	31770.4	31903.9	31872.2	32037.4	31731.9	31876.7
17.5°	19775.0	20119.0	20763.9	21854.6	23081.0	23223.6	23187.4	23051.6	22904.5	22741.6
20°	13282.9	13246.7	13479.8	13798.8	16337.8	17009.8	16989.5	16564.0	15948.5	15830.9
22.5°	9304.8	9372.7	9341.0	9657.8	10182.8	12036.1	11807.5	11375.3	11173.9	11042.7
25°	6121.0	6096.1	6254.5	6349.5	6799.9	7026.1	7827.2	7666.5	7356.5	7390.5
27.5°	3731.4	3763.1	3821.9	3903.4	4222.5	4150.1	4607.2	4668.3	4568.7	4462.3
30°	2290.0	2312.6	2360.1	2419.0	2529.9	2450.7	2577.4	2796.9	2760.7	2686.0
32.5°	1554.6	1556.8	1590.8	1613.4	1599.8	1525.2	1565.9	1774.1	1778.6	1771.8
35°	1117.8	1117.8	1149.5	1167.6	1129.2	1068.1	1074.9	1203.8	1260.4	1271.7
37.5°	771.6	773.9	828.2	882.5	839.5	823.7	796.5	882.5	973.0	986.6
40°	586.1	583.8	611.0	651.7	656.2	626.8	635.9	690.2	782.9	794.3
42.5°	475.2	477.5	491.0	486.5	488.8	527.2	540.8	565.7	651.7	672.1
45°	400.5	402.8	409.6	386.9	377.9	436.7	454.8	468.4	540.8	565.7
47.5°	330.4	334.9	341.7	316.8	312.3	350.7	382.4	396.0	459.4	486.5
50°	237.6	242.1	267.0	253.4	267.0	276.1	319.1	339.4	382.4	418.6
52.5°	172.0	176.5	183.3	185.6	219.5	224.0	255.7	287.4	307.7	348.5
55°	135.8	140.3	135.8	131.2	160.7	185.6	196.9	230.8	246.7	294.2
57.5°	76.9	81.5	88.3	101.8	106.4	142.6	153.9	183.3	196.9	242.1
60°	13.6	15.8	24.9	61.1	74.7	90.5	115.4	140.3	158.4	190.1
62.5°	2.3	2.3	4.5	13.6	43.0	63.4	83.7	99.6	115.4	144.8
65°	0.0	0.0	2.3	4.5	11.3	36.2	45.3	58.8	79.2	104.1
67.5°	0.0	0.0	2.3	4.5	6.8	13.6	20.4	36.2	45.3	70.1
70°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	15.8	27.2	43.0
72.5°	0.0	0.0	2.3	4.5	6.8	9.1	11.3	13.6	13.6	27.2
75°	0.0	0.0	2.3	4.5	6.8	11.3	13.6	13.6	11.3	11.3
77.5°	0.0	0.0	2.3	4.5	9.1	13.6	15.8	13.6	9.1	9.1
80°	0.0	0.0	4.5	6.8	11.3	15.8	20.4	15.8	9.1	4.5
82.5°	0.0	0.0	4.5	9.1	11.3	18.1	24.9	20.4	9.1	4.5
85°	0.0	0.0	2.3	6.8	13.6	18.1	24.9	18.1	9.1	2.3
87.5°	0.0	0.0	2.3	2.3	4.5	6.8	13.6	11.3	4.5	2.3
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°
70999.1	0°	70999.1	70999.1	70999.1	70999.1	70999.1	70999.1	70999.1	70999.1	70999.1
69299.7	2.5°	69697.9	70060.0	70134.7	70035.1	70179.9	69919.7	69720.6	69204.6	68894.6
64905.2	5°	65323.9	65269.6	65647.5	65771.9	65756.1	65556.9	65278.6	64966.3	64663.1
58125.7	7.5°	58487.8	58558.0	58901.9	59121.4	59010.5	58761.6	58569.3	58333.9	58130.3
50753.4	10°	51217.3	50735.3	51163.0	51163.0	51459.4	50755.7	50821.3	50228.4	50255.6
42281.3	12.5°	42426.1	42600.4	42670.5	42871.9	42525.7	42152.3	41695.2	41604.7	41321.8
31600.7	15°	32055.5	32553.3	32125.6	32856.5	32503.5	32114.3	32044.2	31342.7	31564.5
22920.4	17.5°	22807.2	23357.1	23529.1	23947.7	23626.4	23395.6	23103.7	22891.0	22875.1
16045.8	20°	16172.6	16724.7	16851.4	17353.8	17317.6	17245.2	16998.5	16729.2	16437.3
10922.8	22.5°	11087.9	11538.3	11959.1	12635.7	12624.4	12411.7	12386.8	12006.7	12013.5
7379.1	25°	7456.1	7784.2	7883.8	8576.2	8653.1	8630.5	8501.5	8148.5	8282.0
4507.6	27.5°	4512.1	4799.5	5136.7	5381.0	5611.9	5575.7	5446.7	5249.8	5163.8
2708.6	30°	2781.0	2910.0	3034.5	3328.6	3466.7	3539.1	3478.0	3294.7	3308.3
1783.1	32.5°	1821.6	1930.2	2020.7	2206.3	2278.7	2412.2	2387.3	2348.8	2303.6
1283.0	35°	1328.3	1407.5	1468.6	1554.6	1647.4	1760.5	1778.6	1762.8	1744.7
991.1	37.5°	1013.8	1095.2	1165.4	1201.6	1274.0	1362.2	1412.0	1409.8	1396.2
807.8	40°	823.7	884.8	948.1	995.7	1045.4	1111.1	1172.2	1178.9	1178.9
678.9	42.5°	687.9	740.0	803.3	853.1	889.3	950.4	1013.8	1018.3	1013.8
574.8	45°	588.3	633.6	694.7	753.5	782.9	828.2	889.3	902.9	893.8
493.3	47.5°	511.4	552.1	604.2	667.5	699.2	740.0	796.5	812.4	810.1
425.4	50°	439.0	486.5	538.6	590.6	631.3	669.8	724.1	742.2	735.4
362.1	52.5°	386.9	429.9	475.2	531.8	579.3	613.2	656.2	687.9	678.9
305.5	55°	323.6	375.6	423.2	470.7	529.5	565.7	606.4	644.9	635.9
258.0	57.5°	280.6	323.6	377.9	420.9	479.7	522.7	563.4	604.2	601.9
210.4	60°	235.3	280.6	332.6	377.9	432.2	479.7	520.5	565.7	570.2
158.4	62.5°	185.6	239.9	285.1	337.2	391.5	443.5	479.7	525.0	531.8
119.9	65°	140.3	196.9	246.7	296.4	350.7	407.3	439.0	477.5	484.2
88.3	67.5°	104.1	151.6	210.4	255.7	312.3	366.6	396.0	427.7	439.0
54.3	70°	79.2	115.4	176.5	219.5	278.3	321.3	353.0	380.2	389.2
36.2	72.5°	49.8	90.5	142.6	187.8	239.9	278.3	301.0	316.8	330.4
20.4	75°	33.9	70.1	115.4	160.7	199.1	228.5	248.9	262.5	273.8
9.1	77.5°	20.4	54.3	95.0	133.5	158.4	181.0	201.4	210.4	217.2
6.8	80°	11.3	40.7	79.2	108.6	124.5	140.3	156.1	167.5	172.0
4.5	82.5°	6.8	31.7	63.4	83.7	90.5	106.4	122.2	129.0	129.0
2.3	85°	4.5	22.6	43.0	61.1	65.6	76.9	81.5	86.0	90.5
2.3	87.5°	4.5	13.6	27.2	33.9	36.2	40.7	43.0	47.5	52.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
70999.1  
68666.1  
64323.7  
57440.1  
49990.8  
41063.9  
31342.7  
22454.2  
16310.6  
11882.2  
8071.6  
5089.1  
3249.4  
2287.7  
1737.9  
1389.4  
1165.4  
1009.2  
893.8  
805.6  
730.9  
676.6  
640.4  
604.2  
572.5  
536.3  
491.0  
443.5  
393.7  
328.1  
271.5  
215.0  
167.5  
126.7  
88.3  
49.8  
0.0

(END OF REPORT)