

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: P637293

Luminaire Tested: **IFLD-S-SA3A-727-U-44-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P637293  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-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: 11097.6 lumens  
Efficiency: N/A  
Efficacy: 117.1 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

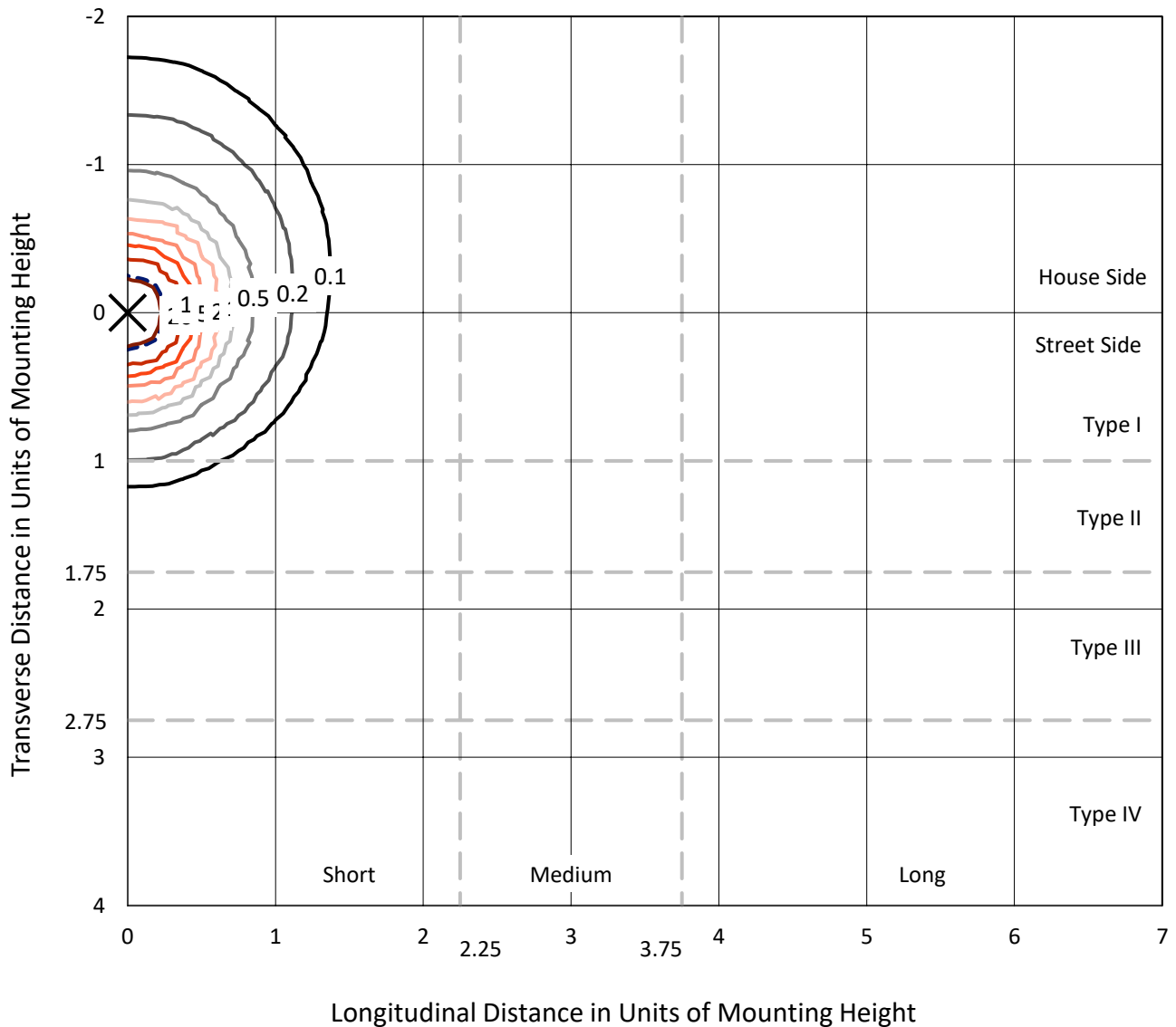
Input Watts (W): 94.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

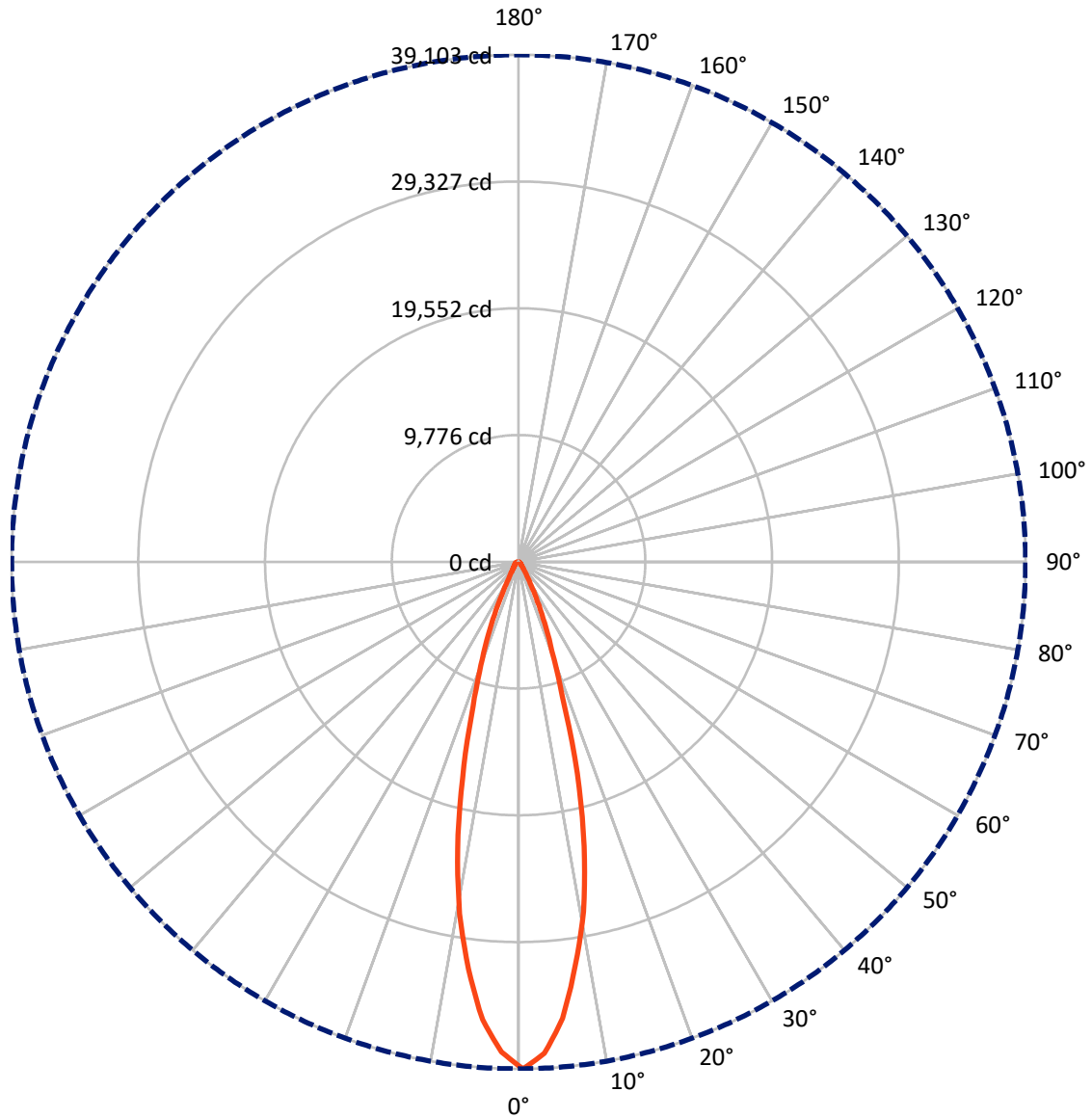
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 97.8 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	5851.4	0.0	5851.4
	% Fixture	52.7	0.0	52.7
<b>Street Side</b>	Lumens	5246.2	0.0	5246.2
	% Fixture	47.3	0.0	47.3
<b>Total</b>	Lumens	11097.6	0.0	11097.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3156.0	28.4
10°-20°	4779.7	43.1
20°-30°	2017.1	18.2
30°-40°	526.1	4.7
40°-50°	266.1	2.4
50°-60°	173.9	1.6
60°-70°	104.2	0.9
70°-80°	54.8	0.5
80°-90°	19.8	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°	11097.6	100.0
0°-180°	11097.6	100.0

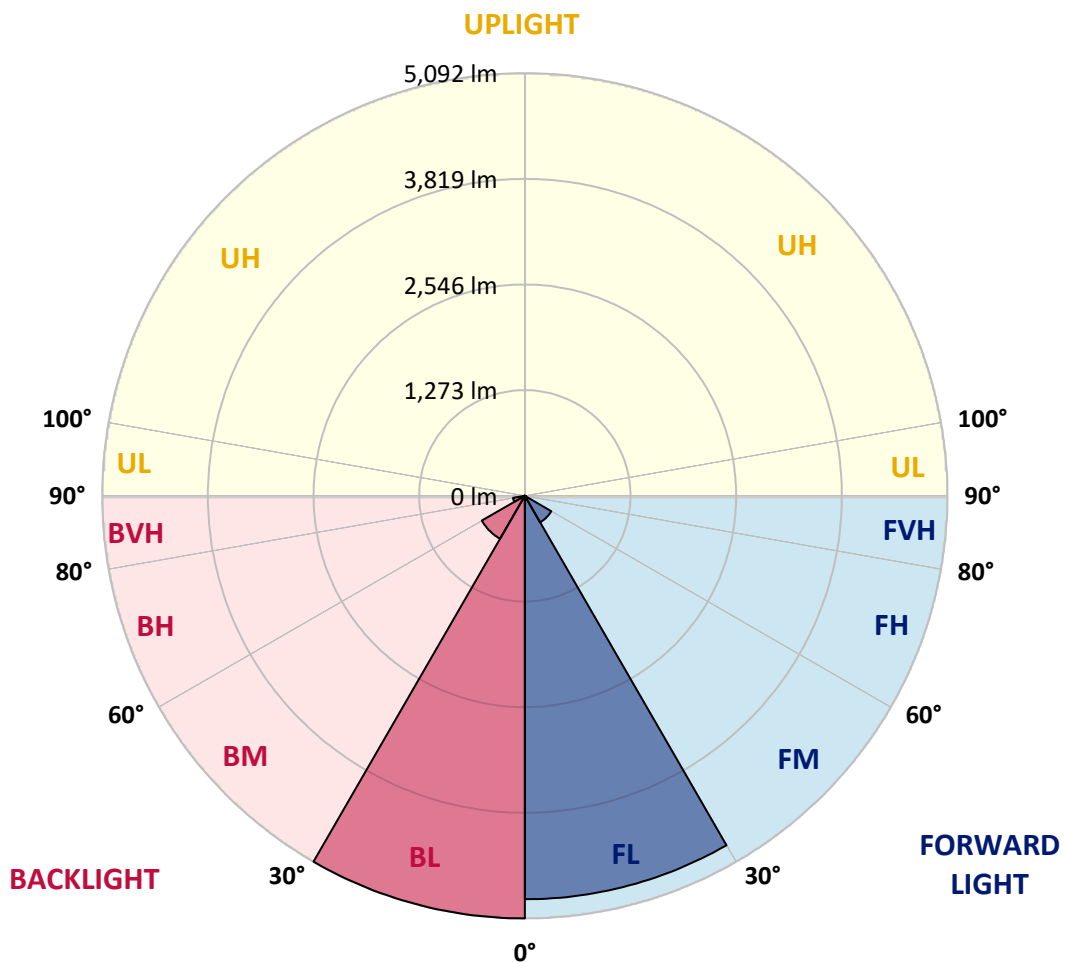


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4860.7	43.8			
FM (30°-60°)	368.1	3.3			
FH (60°-80°)	15.0	0.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	5092.0	45.9	B5		
BM (30°-60°)	597.9	5.4	B1/1000		
BH (60°-80°)	144.0	1.3	B1/500		G0/660
BVH (80°-90°)	17.4	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°	39103.1	39103.1	39103.1	39103.1	39103.1	39103.1	39103.1	39103.1	39103.1	39103.1
2.5°	37964.0	37985.2	37906.7	38076.2	37944.1	38298.0	38122.3	38396.5	38304.2	38457.5
5°	35371.8	35336.9	35314.4	35577.4	35501.4	35881.5	35638.5	35558.7	35805.5	35760.6
7.5°	31457.2	31549.4	31497.1	31565.6	31604.3	32038.0	32175.1	32067.9	32071.6	32133.9
10°	27444.2	27308.4	27115.2	27243.6	27515.2	27704.7	27628.7	27785.7	27750.8	27899.1
12.5°	22506.5	22613.6	22505.2	22390.6	22865.4	22813.0	22945.2	23031.1	22815.5	23295.4
15°	16953.1	17009.1	17141.3	17132.5	17497.7	17571.2	17553.8	17644.7	17476.5	17556.3
17.5°	10891.2	11080.6	11435.8	12036.5	12712.0	12790.5	12770.6	12695.8	12614.8	12525.1
20°	7315.6	7295.7	7424.1	7599.8	8998.1	9368.2	9357.0	9122.7	8783.7	8718.9
22.5°	5124.7	5162.1	5144.6	5319.1	5608.2	6628.9	6503.1	6265.0	6154.1	6081.8
25°	3371.2	3357.5	3444.7	3497.0	3745.1	3869.7	4310.9	4222.4	4051.6	4070.3
27.5°	2055.1	2072.6	2105.0	2149.8	2325.5	2285.7	2537.4	2571.1	2516.2	2457.7
30°	1261.2	1273.7	1299.9	1332.3	1393.3	1349.7	1419.5	1540.4	1520.5	1479.3
32.5°	856.2	857.4	876.1	888.6	881.1	840.0	862.4	977.1	979.6	975.8
35°	615.7	615.7	633.1	643.1	621.9	588.2	592.0	663.0	694.2	700.4
37.5°	425.0	426.2	456.1	486.0	462.4	453.6	438.7	486.0	535.9	543.4
40°	322.8	321.5	336.5	358.9	361.4	345.2	350.2	380.1	431.2	437.4
42.5°	261.7	263.0	270.4	267.9	269.2	290.4	297.9	311.6	358.9	370.1
45°	220.6	221.8	225.6	213.1	208.1	240.5	250.5	258.0	297.9	311.6
47.5°	182.0	184.4	188.2	174.5	172.0	193.2	210.6	218.1	253.0	267.9
50°	130.9	133.4	147.1	139.6	147.1	152.0	175.7	186.9	210.6	230.6
52.5°	94.7	97.2	100.9	102.2	120.9	123.4	140.8	158.3	169.5	191.9
55°	74.8	77.3	74.8	72.3	88.5	102.2	108.4	127.1	135.8	162.0
57.5°	42.4	44.9	48.6	56.1	58.6	78.5	84.7	100.9	108.4	133.4
60°	7.5	8.7	13.7	33.6	41.1	49.9	63.6	77.3	87.2	104.7
62.5°	1.2	1.2	2.5	7.5	23.7	34.9	46.1	54.8	63.6	79.8
65°	0.0	0.0	1.2	2.5	6.2	19.9	24.9	32.4	43.6	57.3
67.5°	0.0	0.0	1.2	2.5	3.7	7.5	11.2	19.9	24.9	38.6
70°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	8.7	15.0	23.7
72.5°	0.0	0.0	1.2	2.5	3.7	5.0	6.2	7.5	7.5	15.0
75°	0.0	0.0	1.2	2.5	3.7	6.2	7.5	7.5	6.2	6.2
77.5°	0.0	0.0	1.2	2.5	5.0	7.5	8.7	7.5	5.0	5.0
80°	0.0	0.0	2.5	3.7	6.2	8.7	11.2	8.7	5.0	2.5
82.5°	0.0	0.0	2.5	5.0	6.2	10.0	13.7	11.2	5.0	2.5
85°	0.0	0.0	1.2	3.7	7.5	10.0	13.7	10.0	5.0	1.2
87.5°	0.0	0.0	1.2	1.2	2.5	3.7	7.5	6.2	2.5	1.2
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°
<b>39103.1</b>	0°	<b>39103.1</b>	<b>39103.1</b>	<b>39103.1</b>	<b>39103.1</b>	<b>39103.1</b>	<b>39103.1</b>	<b>39103.1</b>	<b>39103.1</b>	<b>39103.1</b>
38167.1	2.5°	38386.5	38585.9	38627.0	38572.2	38651.9	38508.6	38399.0	38114.8	37944.1
35746.9	5°	35977.4	35947.5	36155.7	36224.2	36215.5	36105.8	35952.5	35780.5	35613.5
32013.0	7.5°	32212.4	32251.1	32440.5	32561.4	32500.3	32363.2	32257.3	32127.7	32015.5
27952.7	10°	28208.2	27942.7	28178.3	28178.3	28341.5	27953.9	27990.1	27663.5	27678.5
23286.6	12.5°	23366.4	23462.4	23501.0	23611.9	23421.2	23215.6	22963.8	22914.0	22758.2
17404.2	15°	17654.7	17928.9	17693.4	18095.9	17901.5	17687.1	17648.5	17262.1	17384.3
12623.5	17.5°	12561.2	12864.0	12958.8	13189.3	13012.3	12885.2	12724.5	12607.3	12598.6
8837.3	20°	8907.1	9211.2	9281.0	9557.7	9537.7	9497.9	9362.0	9213.7	9052.9
6015.8	22.5°	6106.7	6354.8	6586.6	6959.2	6953.0	6835.8	6822.1	6612.7	6616.5
4064.1	25°	4106.5	4287.2	4342.0	4723.4	4765.8	4753.3	4682.3	4487.8	4561.4
2482.6	27.5°	2485.1	2643.3	2829.0	2963.6	3090.8	3070.8	2999.8	2891.4	2844.0
1491.8	30°	1531.7	1602.7	1671.3	1833.3	1909.3	1949.2	1915.5	1814.6	1822.1
982.1	32.5°	1003.3	1063.1	1112.9	1215.1	1255.0	1328.5	1314.8	1293.6	1268.7
706.6	35°	731.6	775.2	808.8	856.2	907.3	969.6	979.6	970.8	960.9
545.9	37.5°	558.3	603.2	641.8	661.8	701.7	750.3	777.7	776.4	769.0
444.9	40°	453.6	487.3	522.2	548.4	575.8	611.9	645.6	649.3	649.3
373.9	42.5°	378.9	407.5	442.4	469.8	489.8	523.4	558.3	560.8	558.3
316.6	45°	324.0	349.0	382.6	415.0	431.2	456.1	489.8	497.3	492.3
271.7	47.5°	281.7	304.1	332.8	367.7	385.1	407.5	438.7	447.4	446.2
234.3	50°	241.8	267.9	296.6	325.3	347.7	368.9	398.8	408.8	405.0
199.4	52.5°	213.1	236.8	261.7	292.9	319.0	337.7	361.4	378.9	373.9
168.2	55°	178.2	206.9	233.1	259.2	291.6	311.6	334.0	355.2	350.2
142.1	57.5°	154.5	178.2	208.1	231.8	264.2	287.9	310.3	332.8	331.5
115.9	60°	129.6	154.5	183.2	208.1	238.0	264.2	286.6	311.6	314.1
87.2	62.5°	102.2	132.1	157.0	185.7	215.6	244.3	264.2	289.1	292.9
66.1	65°	77.3	108.4	135.8	163.3	193.2	224.3	241.8	263.0	266.7
48.6	67.5°	57.3	83.5	115.9	140.8	172.0	201.9	218.1	235.5	241.8
29.9	70°	43.6	63.6	97.2	120.9	153.3	177.0	194.4	209.4	214.4
19.9	72.5°	27.4	49.9	78.5	103.4	132.1	153.3	165.8	174.5	182.0
11.2	75°	18.7	38.6	63.6	88.5	109.7	125.9	137.1	144.6	150.8
5.0	77.5°	11.2	29.9	52.3	73.5	87.2	99.7	110.9	115.9	119.6
3.7	80°	6.2	22.4	43.6	59.8	68.5	77.3	86.0	92.2	94.7
2.5	82.5°	3.7	17.4	34.9	46.1	49.9	58.6	67.3	71.0	71.0
1.2	85°	2.5	12.5	23.7	33.6	36.1	42.4	44.9	47.4	49.9
1.2	87.5°	2.5	7.5	15.0	18.7	19.9	22.4	23.7	26.2	28.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
39103.1  
37818.2  
35426.6  
31635.4  
27532.7  
22616.1  
17262.1  
12366.8  
8983.1  
6544.2  
4445.5  
2802.9  
1789.6  
1260.0  
957.1  
765.2  
641.8  
555.8  
492.3  
443.7  
402.5  
372.6  
352.7  
332.8  
315.3  
295.4  
270.4  
244.3  
216.9  
180.7  
149.6  
118.4  
92.2  
69.8  
48.6  
27.4  
0.0

(END OF REPORT)