

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: P637819

Luminaire Tested: **IFLD-S-SA3E-727-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637819
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-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19021 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

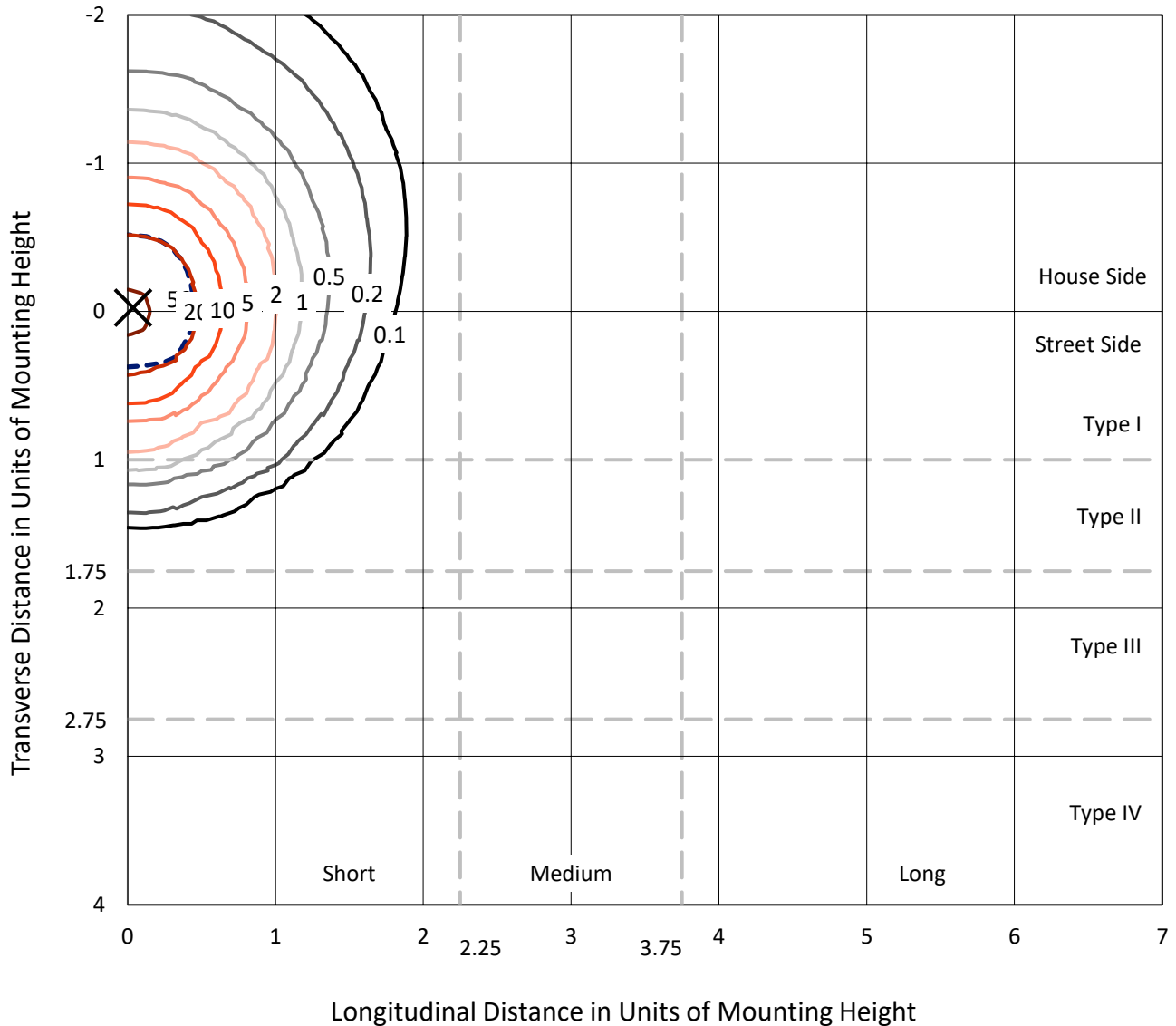
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

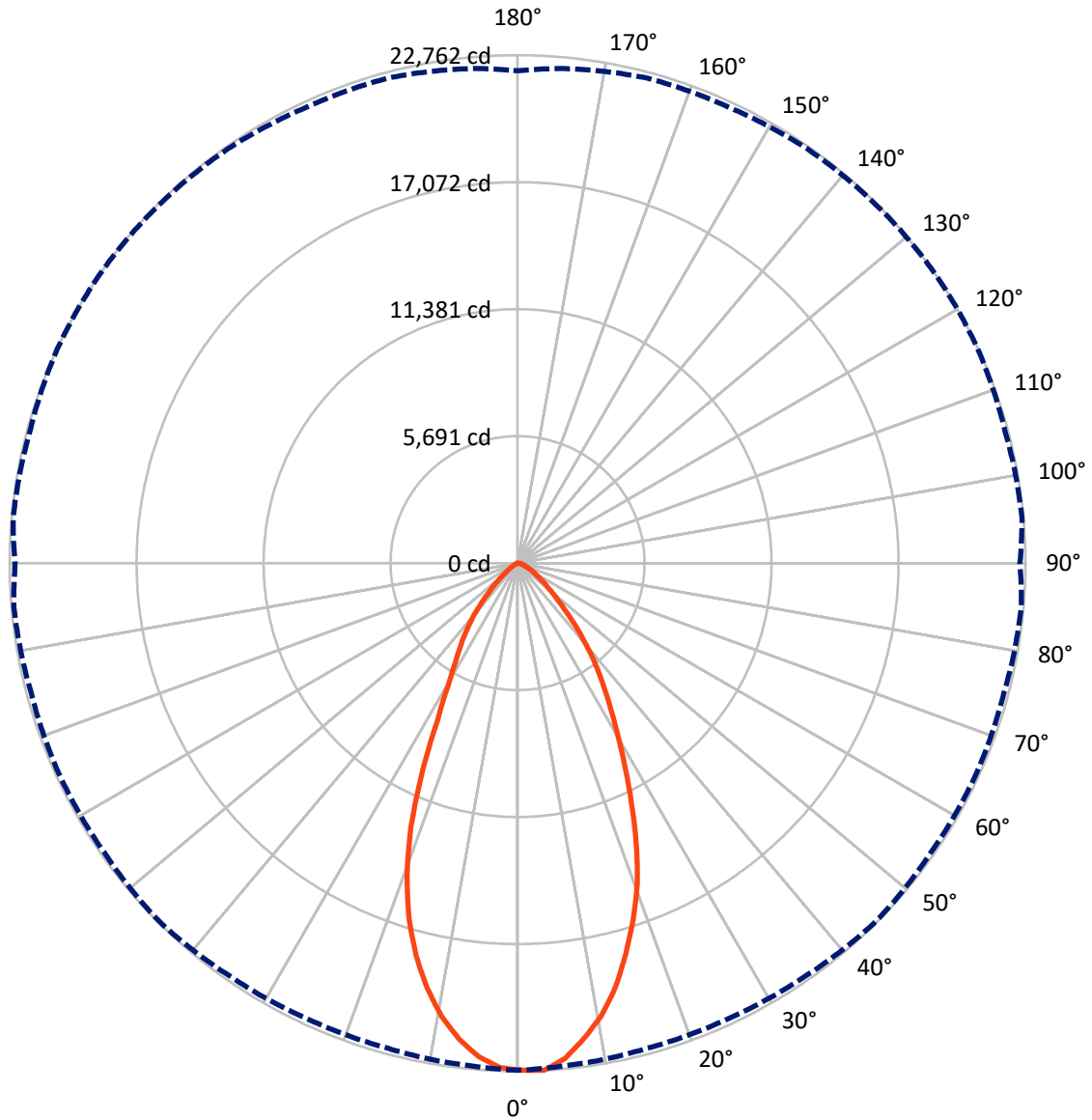
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 56.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10793.3	0.0	10793.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8227.7	0.0	8227.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	19021.0	0.0	19021.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2063.6	10.8
10°-20°	4919.1	25.9
20°-30°	5010.0	26.3
30°-40°	3735.9	19.6
40°-50°	1951.7	10.3
50°-60°	820.9	4.3
60°-70°	335.3	1.8
70°-80°	141.1	0.7
80°-90°	43.5	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°	19021.0	100.0
0°-180°	19021.0	100.0



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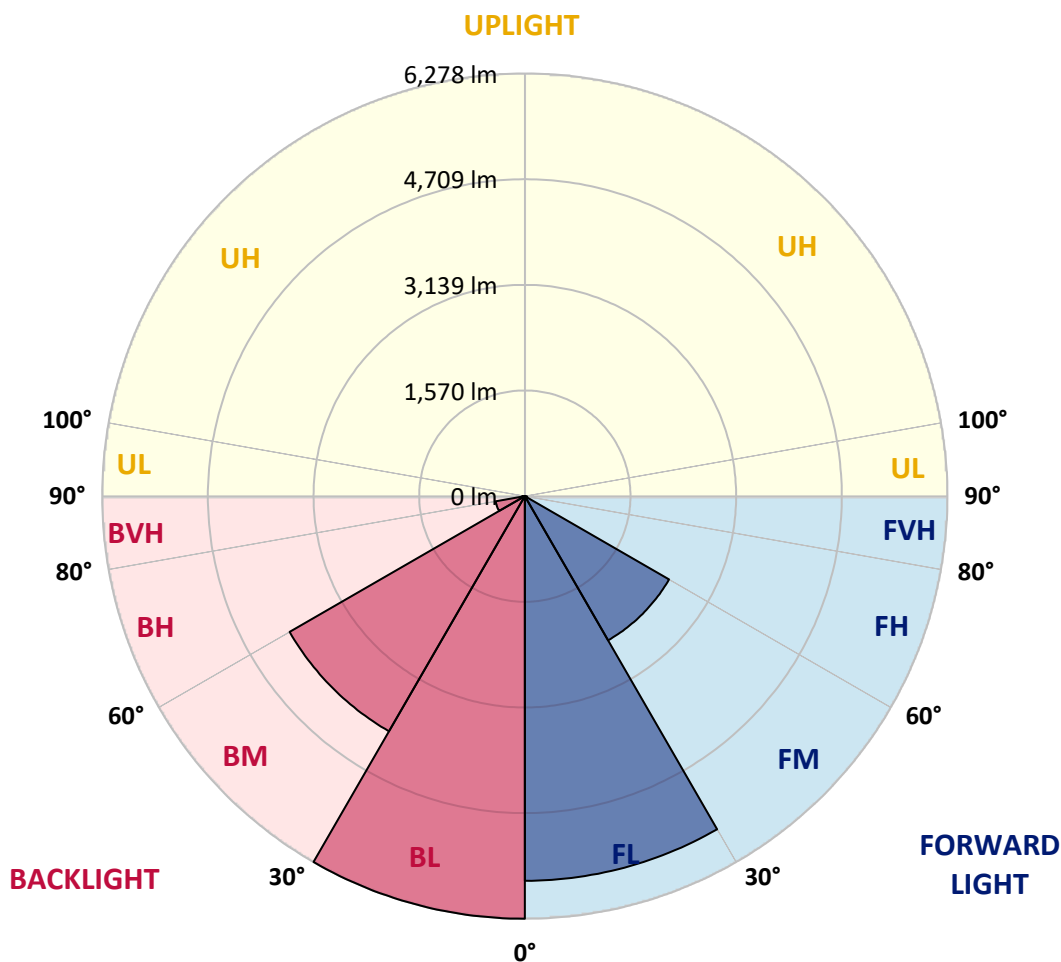
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5714.2	30.0			
FM (30°-60°)	2473.8	13.0			
FH (60°-80°)	35.8	0.2			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	6278.5	33.0	B5		
BM (30°-60°)	4034.8	21.2	B3/5000		
BH (60°-80°)	440.6	2.3	B1/500		G1/500
BVH (80°-90°)	39.4	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	22725.5	22725.5	22725.5	22725.5	22725.5	22725.5	22725.5	22725.5	22725.5	22725.5
2.5°	22728.0	22635.1	22503.2	22491.0	22559.4	22708.4	22613.1	22618.0	22559.4	22659.5
5°	22371.2	22283.3	22192.9	22073.1	22173.3	22236.8	22188.0	22134.2	22058.5	22156.2
7.5°	21696.9	21648.0	21513.6	21459.9	21520.9	21591.8	21486.7	21472.1	21367.0	21494.1
10°	20665.8	20646.2	20514.3	20482.5	20536.3	20643.8	20597.4	20587.6	20521.6	20509.4
12.5°	19595.6	19519.9	19356.1	19346.4	19427.0	19588.3	19463.7	19343.9	19380.6	19412.3
15°	16839.5	16758.9	17164.5	17802.2	18136.9	18124.7	18161.4	18017.2	17973.2	17987.9
17.5°	13387.1	13250.2	13396.8	14383.9	15974.6	16898.1	16644.0	16333.7	16167.6	16057.6
20°	11554.6	11561.9	11535.0	11789.1	12781.1	14887.3	14826.2	14227.6	14010.1	13919.7
22.5°	10440.4	10398.9	10340.2	10420.9	10687.2	11923.5	12751.8	12202.0	12126.3	12026.1
25°	9348.2	9348.2	9277.4	9358.0	9433.7	9450.8	10281.6	10506.4	10359.8	10359.8
27.5°	8402.7	8353.8	8322.0	8358.7	8258.5	7777.2	7882.2	9033.0	8932.9	8871.8
30°	7464.4	7449.7	7396.0	7444.9	7073.5	6531.1	6311.2	7623.2	7728.3	7706.3
32.5°	6162.1	6220.7	6460.2	6535.9	5900.7	5463.3	5253.2	6328.3	6748.5	6731.4
35°	4187.9	4236.8	4510.4	5414.4	4891.6	4578.8	4517.7	5033.3	5724.7	5790.7
37.5°	3335.2	3327.8	3406.0	3567.3	3931.3	3855.6	3838.5	3972.9	4669.2	4698.5
40°	2748.8	2739.0	2736.5	2604.6	2514.2	3205.7	3159.2	3078.6	3682.1	3740.8
42.5°	2216.1	2225.9	2233.2	1944.9	1813.0	2472.7	2445.8	2362.7	2888.0	2956.4
45°	1739.7	1737.2	1751.9	1448.9	1412.3	1580.8	1827.6	1761.6	2179.5	2252.8
47.5°	901.6	933.4	1131.3	1121.5	1138.6	1121.5	1382.9	1365.8	1639.5	1756.8
50°	605.9	615.7	632.8	635.3	896.7	825.8	938.2	1062.9	1148.4	1329.2
52.5°	469.1	476.5	432.5	405.6	549.8	610.8	615.7	735.4	801.4	984.7
55°	261.4	293.2	315.2	317.6	303.0	452.0	449.6	544.9	596.2	718.3
57.5°	34.2	41.5	63.5	205.2	202.8	251.7	315.2	395.8	425.1	525.3
60°	2.4	4.9	7.3	31.8	134.4	146.6	215.0	246.8	295.6	368.9
62.5°	0.0	0.0	2.4	7.3	26.9	85.5	112.4	129.5	173.5	241.9
65°	0.0	0.0	2.4	4.9	9.8	31.8	44.0	70.9	102.6	149.0
67.5°	0.0	0.0	2.4	4.9	7.3	12.2	19.5	31.8	53.8	90.4
70°	0.0	0.0	2.4	4.9	7.3	9.8	14.7	19.5	29.3	48.9
72.5°	0.0	0.0	2.4	2.4	4.9	12.2	12.2	14.7	19.5	26.9
75°	0.0	0.0	2.4	4.9	7.3	12.2	12.2	12.2	14.7	17.1
77.5°	0.0	0.0	2.4	4.9	7.3	12.2	9.8	12.2	12.2	12.2
80°	0.0	0.0	2.4	4.9	7.3	12.2	14.7	12.2	9.8	9.8
82.5°	0.0	0.0	2.4	7.3	7.3	17.1	17.1	17.1	7.3	7.3
85°	0.0	0.0	4.9	7.3	12.2	19.5	19.5	14.7	7.3	4.9
87.5°	0.0	0.0	2.4	4.9	4.9	9.8	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°
22725.5	0°	22725.5	22725.5	22725.5	22725.5	22725.5	22725.5	22725.5	22725.5	22725.5
22512.9	2.5°	22693.8	22632.7	22747.5	22762.2	22713.3	22652.2	22510.5	22498.3	22251.5
22014.5	5°	22263.7	22163.5	22236.8	22285.7	22268.6	22202.6	22144.0	22090.2	21867.9
21205.8	7.5°	21462.3	21425.7	21459.9	21496.5	21567.4	21496.5	21472.1	21415.9	21196.0
20409.2	10°	20572.9	20504.5	20634.0	20616.9	20597.4	20577.8	20475.2	20485.0	20226.0
19324.4	12.5°	19480.8	19365.9	19490.5	19505.2	19490.5	19422.1	19307.3	19356.1	19119.1
17858.4	15°	18012.3	18000.1	18090.5	18149.1	18190.7	18117.4	18078.3	18102.7	17961.0
15972.1	17.5°	16209.1	16367.9	16663.6	16763.8	16766.2	16842.0	16820.0	16790.6	16685.6
13883.1	20°	14088.3	14393.7	14848.2	15314.9	15449.2	15385.7	15356.4	15410.2	15253.8
11921.1	22.5°	12131.2	12392.6	12920.4	13602.1	13995.5	14034.6	14027.2	13980.8	13919.7
10350.0	25°	10469.7	10701.8	11207.6	11830.7	12585.7	12698.0	12702.9	12688.3	12634.5
8925.5	27.5°	9067.2	9348.2	9626.8	10183.8	10987.7	11451.9	11393.3	11376.2	11356.6
7723.4	30°	7796.7	8151.0	8412.4	8759.4	9480.2	10108.1	10169.2	10139.9	10093.4
6729.0	32.5°	6790.0	7000.2	7332.5	7567.0	8085.0	8796.0	9030.6	9008.6	8967.1
5832.3	35°	5915.3	5998.4	6259.8	6521.3	6865.8	7554.8	7901.8	7852.9	7845.6
4752.3	37.5°	4872.0	5150.6	5294.7	5558.6	5800.5	6335.6	6814.5	6792.5	6794.9
3821.4	40°	3933.8	4095.0	4380.9	4603.3	4825.6	5216.5	5749.2	5763.8	5759.0
2958.9	42.5°	3020.0	3176.3	3476.9	3718.8	3916.7	4158.6	4666.8	4683.9	4705.9
2304.1	45°	2357.8	2458.0	2677.9	2929.6	3139.7	3286.3	3672.3	3782.3	3784.7
1786.1	47.5°	1830.1	1944.9	2101.3	2343.2	2548.4	2653.5	2934.5	3083.5	3076.2
1370.7	50°	1436.7	1541.7	1668.8	1859.4	2081.7	2164.8	2372.5	2519.1	2511.8
1033.5	52.5°	1099.5	1233.9	1346.3	1492.9	1710.3	1781.2	1930.2	2098.8	2074.4
757.4	55°	833.2	970.0	1075.1	1197.2	1395.1	1485.6	1588.2	1722.6	1727.4
586.4	57.5°	627.9	769.7	864.9	989.6	1138.6	1238.8	1317.0	1461.1	1458.7
400.7	60°	449.6	571.7	686.6	816.1	930.9	1045.8	1099.5	1236.3	1241.2
283.4	62.5°	325.0	439.8	549.8	662.1	764.8	877.2	926.0	1033.5	1048.2
185.7	65°	227.2	307.9	434.9	520.4	635.3	718.3	781.9	874.7	891.8
110.0	67.5°	146.6	222.3	344.5	420.3	525.3	596.2	662.1	735.4	757.4
70.9	70°	88.0	168.6	256.6	337.2	432.5	496.0	559.5	623.1	635.3
34.2	72.5°	56.2	117.3	185.7	273.7	347.0	415.4	471.6	518.0	481.3
22.0	75°	31.8	80.6	146.6	215.0	281.0	347.0	393.4	417.8	334.7
14.7	77.5°	19.5	58.6	119.7	173.5	217.5	278.5	307.9	322.5	239.4
9.8	80°	12.2	44.0	100.2	141.7	141.7	205.2	239.4	251.7	173.5
7.3	82.5°	9.8	31.8	78.2	107.5	95.3	153.9	188.1	190.6	122.2
4.9	85°	7.3	24.4	48.9	70.9	66.0	107.5	110.0	122.2	80.6
4.9	87.5°	4.9	14.7	29.3	41.5	36.7	51.3	58.6	66.0	44.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
22725.5
22058.5
21689.5
21149.6
20138.0
19050.7
17790.0
16529.2
15141.4
13802.4
12453.7
11241.8
10034.8
8857.1
7764.9
6716.7
5673.4
4632.6
3721.2
3049.3
2511.8
2076.8
1727.4
1453.8
1229.0
1043.3
886.9
755.0
625.5
447.1
317.6
224.8
161.3
112.4
73.3
39.1
0.0

(END OF REPORT)