

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: P637799

Luminaire Tested: **IFLD-M-SA4D-722-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637799
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19430.8 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

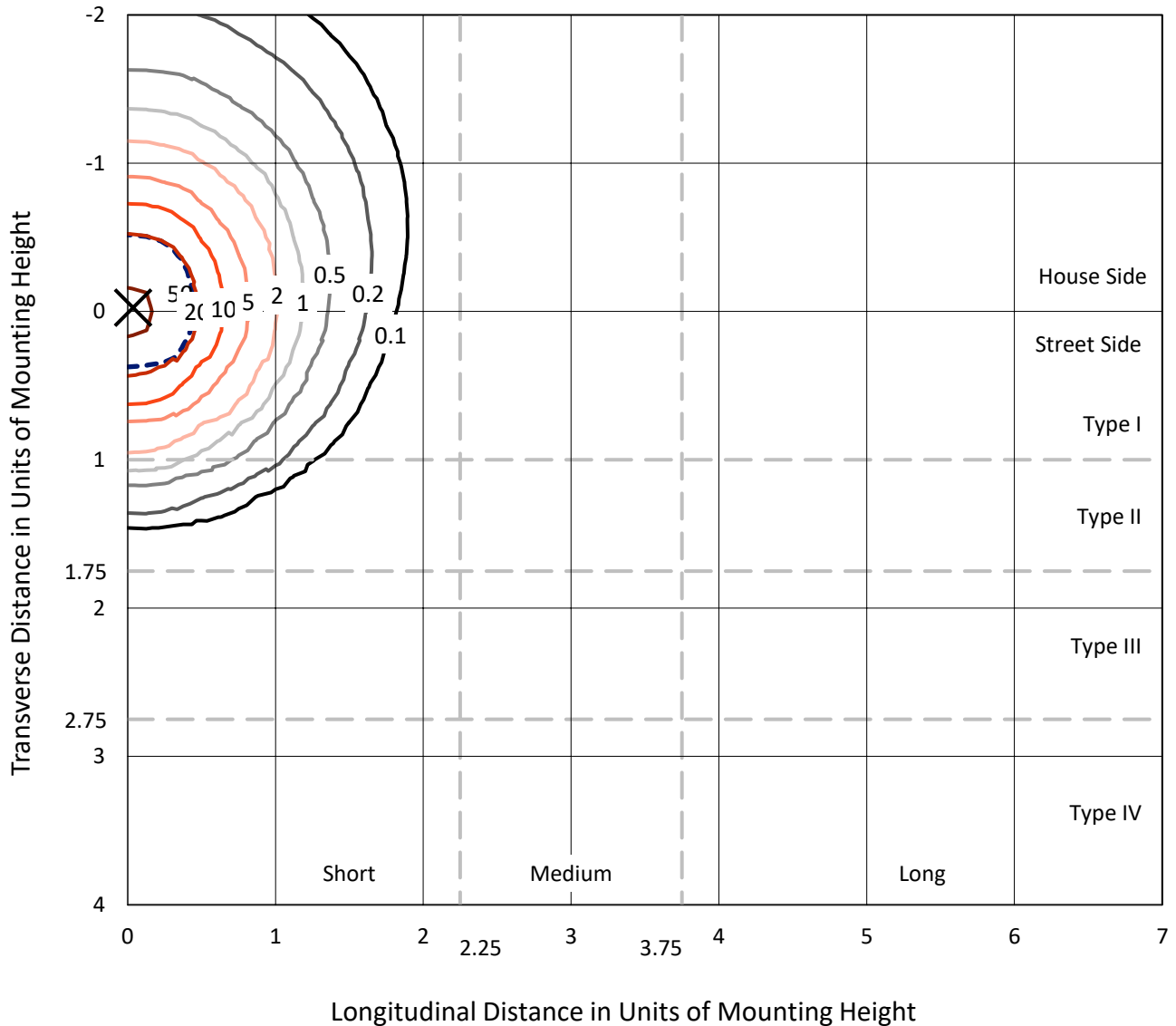
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

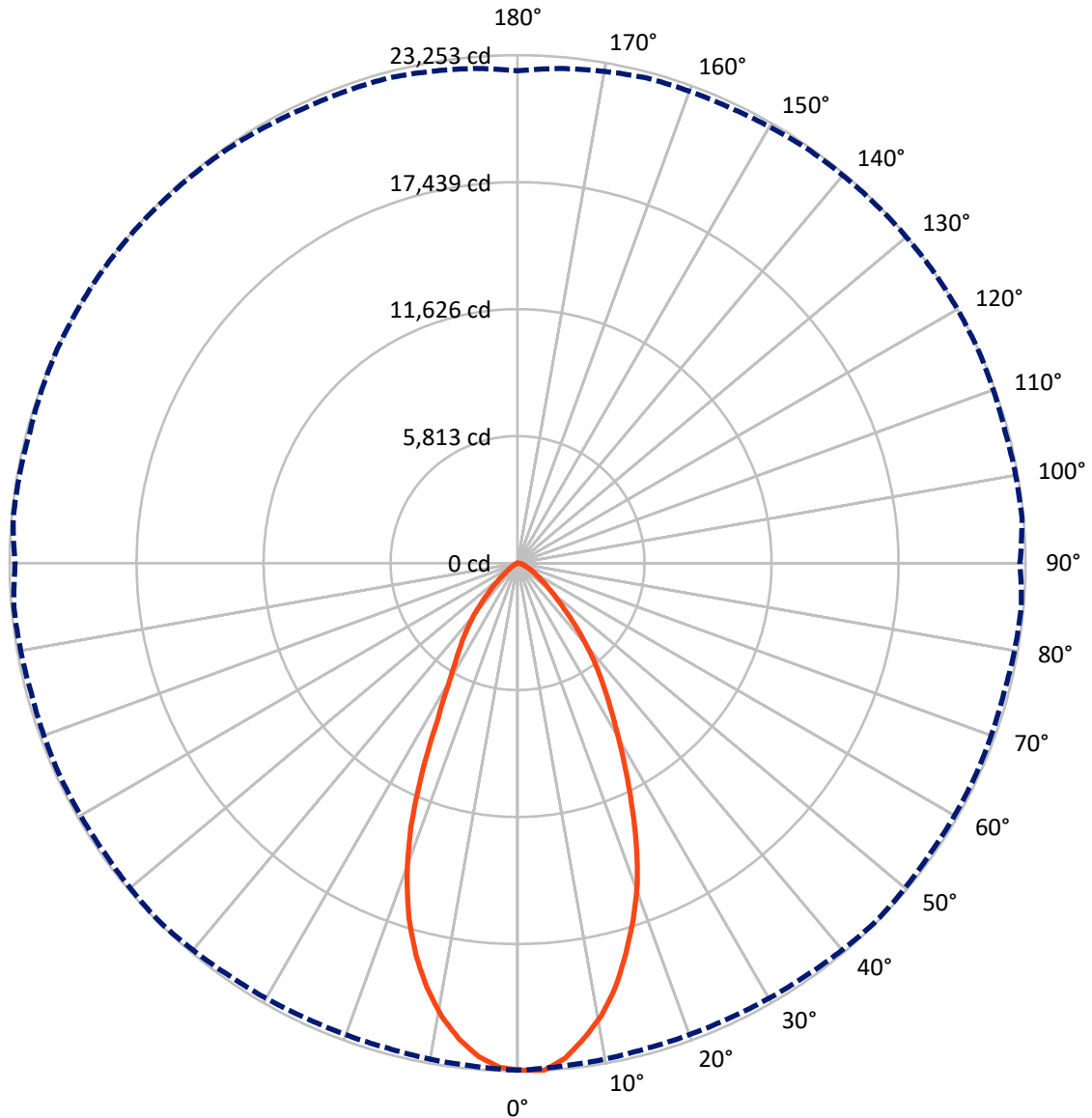
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 58 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	11025.8	0.0	11025.8
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	8405.0	0.0	8405.0
	% Fixture	43.3	0.0	43.3
Total	Lumens	19430.8	0.0	19430.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2108.0	10.8
10°-20°	5025.0	25.9
20°-30°	5117.9	26.3
30°-40°	3816.4	19.6
40°-50°	1993.8	10.3
50°-60°	838.6	4.3
60°-70°	342.5	1.8
70°-80°	144.1	0.7
80°-90°	44.4	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°	19430.8	100.0
0°-180°	19430.8	100.0



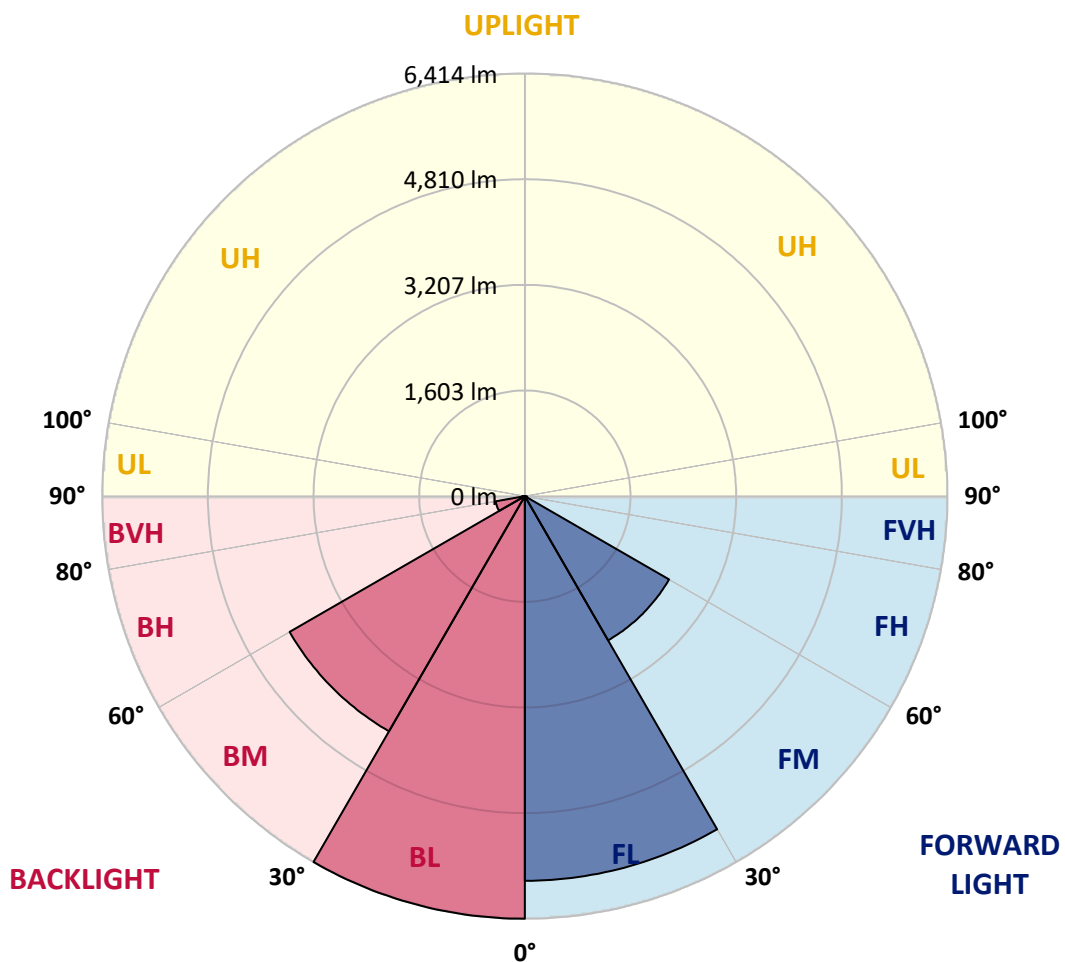
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5837.2	30.0			
FM (30°-60°)	2527.0	13.0			
FH (60°-80°)	36.6	0.2			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	6413.7	33.0	B5		
BM (30°-60°)	4121.7	21.2	B3/5000		
BH (60°-80°)	450.1	2.3	B1/500		G1/500
BVH (80°-90°)	40.3	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°	23215.1	23215.1	23215.1	23215.1	23215.1	23215.1	23215.1	23215.1	23215.1	23215.1
2.5°	23217.6	23122.7	22987.9	22975.4	23045.3	23197.6	23100.2	23105.2	23045.3	23147.7
5°	22853.1	22763.3	22670.9	22548.6	22651.0	22715.9	22665.9	22611.0	22533.7	22633.5
7.5°	22164.3	22114.3	21977.1	21922.1	21984.5	22056.9	21949.6	21934.6	21827.3	21957.1
10°	21111.0	21091.0	20956.2	20923.8	20978.7	21088.5	21041.1	21031.1	20963.7	20951.2
12.5°	20017.7	19940.3	19773.1	19763.1	19845.5	20010.2	19882.9	19760.6	19798.1	19830.5
15°	17202.3	17119.9	17534.2	18185.7	18527.6	18515.1	18552.6	18405.3	18360.4	18375.4
17.5°	13675.4	13535.7	13685.4	14693.8	16318.7	17262.2	17002.6	16685.6	16515.9	16403.5
20°	11803.5	11811.0	11783.5	12043.1	13056.4	15208.0	15145.6	14534.1	14311.9	14219.6
22.5°	10665.3	10622.9	10563.0	10645.3	10917.4	12180.4	13026.5	12464.9	12387.5	12285.2
25°	9549.6	9549.6	9477.2	9559.6	9637.0	9654.4	10503.1	10732.7	10582.9	10582.9
27.5°	8583.7	8533.7	8501.3	8538.7	8436.4	7944.7	8052.0	9227.6	9125.3	9062.9
30°	7625.2	7610.2	7555.3	7605.2	7225.8	6671.7	6447.1	7787.4	7894.8	7872.3
32.5°	6294.8	6354.8	6599.4	6676.7	6027.8	5581.0	5366.3	6464.6	6893.9	6876.4
35°	4278.1	4328.0	4607.6	5531.1	4996.9	4677.5	4615.1	5141.7	5848.1	5915.5
37.5°	3407.0	3399.5	3479.4	3644.1	4016.0	3938.6	3921.2	4058.5	4769.8	4799.8
40°	2808.0	2798.0	2795.5	2660.7	2568.4	3274.7	3227.3	3144.9	3761.4	3821.3
42.5°	2263.8	2273.8	2281.3	1986.8	1852.0	2525.9	2498.5	2413.6	2950.2	3020.1
45°	1777.1	1774.6	1789.6	1480.1	1442.7	1614.9	1867.0	1799.6	2226.4	2301.3
47.5°	921.0	953.5	1155.6	1145.7	1163.1	1145.7	1412.7	1395.2	1674.8	1794.6
50°	619.0	629.0	646.5	649.0	916.0	843.6	958.5	1085.7	1173.1	1357.8
52.5°	479.2	486.7	441.8	414.3	561.6	624.0	629.0	751.3	818.7	1005.9
55°	267.1	299.5	322.0	324.5	309.5	461.8	459.3	556.6	609.0	733.8
57.5°	34.9	42.4	64.9	209.7	207.2	257.1	322.0	404.3	434.3	536.6
60°	2.5	5.0	7.5	32.4	137.3	149.8	219.6	252.1	302.0	376.9
62.5°	0.0	0.0	2.5	7.5	27.5	87.4	114.8	132.3	177.2	247.1
65°	0.0	0.0	2.5	5.0	10.0	32.4	44.9	72.4	104.8	152.3
67.5°	0.0	0.0	2.5	5.0	7.5	12.5	20.0	32.4	54.9	92.4
70°	0.0	0.0	2.5	5.0	7.5	10.0	15.0	20.0	30.0	49.9
72.5°	0.0	0.0	2.5	2.5	5.0	12.5	12.5	15.0	20.0	27.5
75°	0.0	0.0	2.5	5.0	7.5	12.5	12.5	12.5	15.0	17.5
77.5°	0.0	0.0	2.5	5.0	7.5	12.5	10.0	12.5	12.5	12.5
80°	0.0	0.0	2.5	5.0	7.5	12.5	15.0	12.5	10.0	10.0
82.5°	0.0	0.0	2.5	7.5	7.5	17.5	17.5	17.5	7.5	7.5
85°	0.0	0.0	5.0	7.5	12.5	20.0	20.0	15.0	7.5	5.0
87.5°	0.0	0.0	2.5	5.0	5.0	10.0	15.0	12.5	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°
23215.1	0°	23215.1	23215.1	23215.1	23215.1	23215.1	23215.1	23215.1	23215.1	23215.1
22997.9	2.5°	23182.6	23120.2	23237.5	23252.5	23202.6	23140.2	22995.4	22982.9	22730.8
22488.7	5°	22743.3	22641.0	22715.9	22765.8	22748.3	22680.9	22621.0	22566.1	22339.0
21662.6	7.5°	21924.6	21887.2	21922.1	21959.6	22032.0	21959.6	21934.6	21877.2	21652.6
20848.9	10°	21016.1	20946.2	21078.5	21061.0	21041.1	21021.1	20916.3	20926.3	20661.7
19740.7	12.5°	19900.4	19783.1	19910.4	19925.4	19910.4	19840.5	19723.2	19773.1	19531.0
18243.1	15°	18400.3	18387.8	18480.2	18540.1	18582.5	18507.7	18467.7	18492.7	18347.9
16316.2	17.5°	16558.3	16720.5	17022.5	17124.9	17127.4	17204.8	17182.3	17152.3	17045.0
14182.1	20°	14391.8	14703.8	15168.0	15644.8	15782.0	15717.2	15687.2	15742.1	15582.4
12177.9	22.5°	12392.5	12659.6	13198.7	13895.1	14296.9	14336.9	14329.4	14282.0	14219.6
10572.9	25°	10695.3	10932.4	11449.0	12085.5	12856.8	12971.6	12976.6	12961.6	12906.7
9117.8	27.5°	9262.6	9549.6	9834.1	10403.2	11224.4	11698.6	11638.7	11621.3	11601.3
7889.8	30°	7964.7	8326.6	8593.6	8948.1	9684.4	10325.8	10388.2	10358.3	10310.9
6873.9	32.5°	6936.3	7151.0	7490.4	7730.0	8259.2	8985.5	9225.1	9202.7	9160.2
5957.9	35°	6042.8	6127.6	6394.7	6661.8	7013.7	7717.6	8072.0	8022.1	8014.6
4854.7	37.5°	4977.0	5261.5	5408.8	5678.3	5925.4	6472.1	6961.3	6938.8	6941.3
3903.7	40°	4018.5	4183.3	4475.3	4702.4	4929.6	5328.9	5873.0	5888.0	5883.0
3022.6	42.5°	3085.0	3244.8	3551.8	3798.9	4001.0	4248.1	4767.3	4784.8	4807.2
2353.7	45°	2408.6	2511.0	2735.6	2992.7	3207.3	3357.1	3751.5	3863.8	3866.3
1824.6	47.5°	1869.5	1986.8	2146.5	2393.6	2603.3	2710.6	2997.7	3149.9	3142.4
1400.2	50°	1467.6	1575.0	1704.8	1899.4	2126.6	2211.4	2423.6	2573.3	2565.9
1055.8	52.5°	1123.2	1260.5	1375.3	1525.0	1747.2	1819.6	1971.8	2144.0	2119.1
773.8	55°	851.1	990.9	1098.2	1223.0	1425.2	1517.6	1622.4	1759.7	1764.7
599.0	57.5°	641.5	786.2	883.6	1010.9	1163.1	1265.5	1345.3	1492.6	1490.1
409.3	60°	459.3	584.1	701.4	833.7	951.0	1068.3	1123.2	1263.0	1268.0
289.5	62.5°	332.0	449.3	561.6	676.4	781.2	896.1	946.0	1055.8	1070.8
189.7	65°	232.1	314.5	444.3	531.6	649.0	733.8	798.7	893.6	911.0
112.3	67.5°	149.8	227.1	351.9	429.3	536.6	609.0	676.4	751.3	773.8
72.4	70°	89.9	172.2	262.1	344.4	441.8	506.7	571.6	636.5	649.0
34.9	72.5°	57.4	119.8	189.7	279.5	354.4	424.3	481.7	529.1	491.7
22.5	75°	32.4	82.4	149.8	219.6	287.0	354.4	401.9	426.8	341.9
15.0	77.5°	20.0	59.9	122.3	177.2	222.1	284.5	314.5	329.5	244.6
10.0	80°	12.5	44.9	102.3	144.8	144.8	209.7	244.6	257.1	177.2
7.5	82.5°	10.0	32.4	79.9	109.8	97.3	157.2	192.2	194.7	124.8
5.0	85°	7.5	25.0	49.9	72.4	67.4	109.8	112.3	124.8	82.4
5.0	87.5°	5.0	15.0	30.0	42.4	37.4	52.4	59.9	67.4	44.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
23215.1
22533.7
22156.8
21605.2
20571.8
19461.1
18173.2
16885.3
15467.6
14099.8
12722.0
11484.0
10251.0
9047.9
7932.2
6861.4
5795.7
4732.4
3801.4
3115.0
2565.9
2121.6
1764.7
1485.1
1255.5
1065.8
906.0
771.3
639.0
456.8
324.5
229.6
164.7
114.8
74.9
39.9
0.0

(END OF REPORT)