

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: P637334

Luminaire Tested: **IFLD-M-SA4C-730-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637334
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24970.3 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

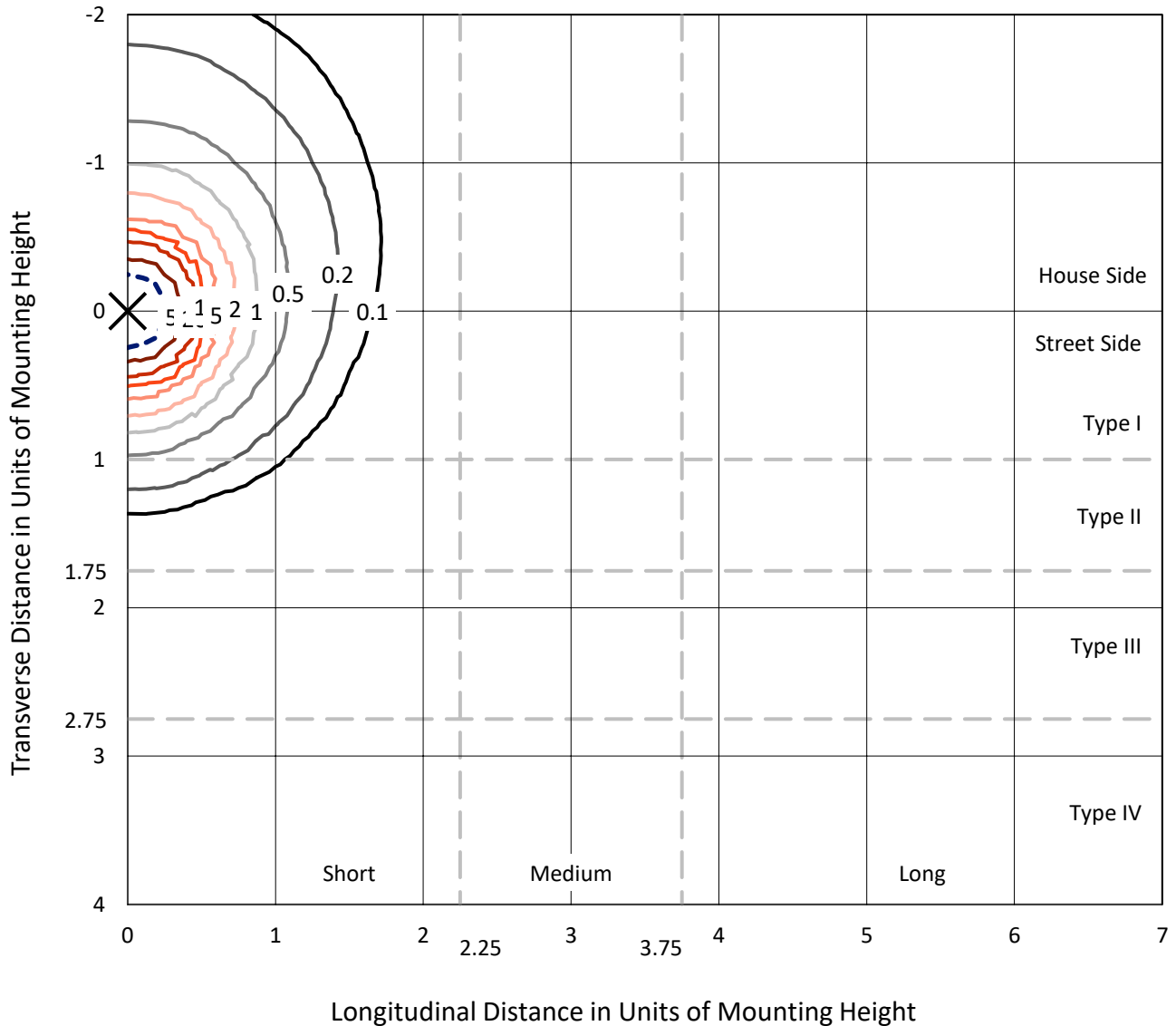
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

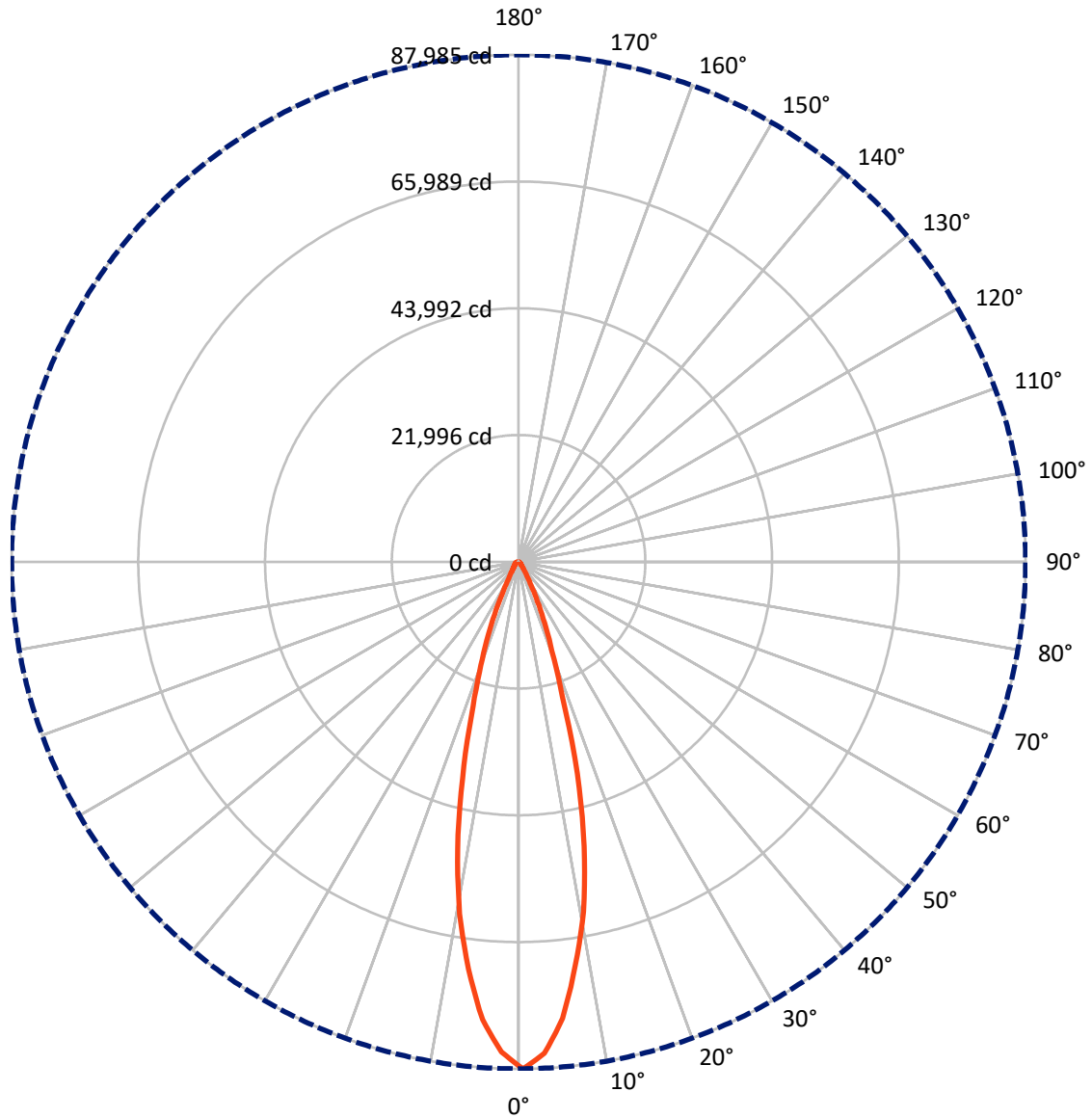
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 220 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
House Side	Lumens	13166.1	0.0	13166.1
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	11804.3	0.0	11804.3
	% Fixture	47.3	0.0	47.3
Total	Lumens	24970.3	0.0	24970.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7101.2	28.4
10°-20°	10754.6	43.1
20°-30°	4538.5	18.2
30°-40°	1183.7	4.7
40°-50°	598.7	2.4
50°-60°	391.3	1.6
60°-70°	234.5	0.9
70°-80°	123.3	0.5
80°-90°	44.5	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°	24970.3	100.0
0°-180°	24970.3	100.0

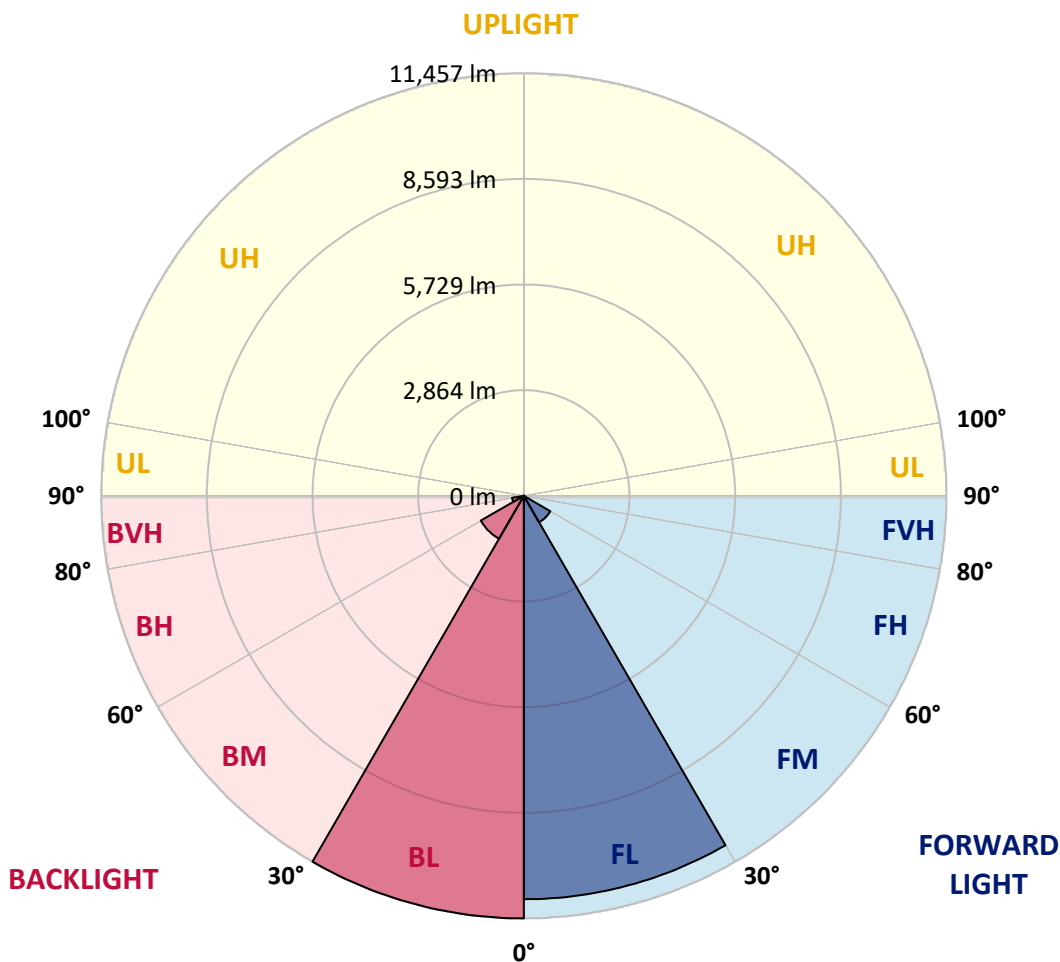


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10936.9	43.8			
FM (30°-60°)	828.3	3.3			
FH (60°-80°)	33.7	0.1			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	11457.5	45.9	B5		
BM (30°-60°)	1345.4	5.4	B2/2500		
BH (60°-80°)	324.0	1.3	B1/500		G0/660
BVH (80°-90°)	39.1	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°	87984.7	87984.7	87984.7	87984.7	87984.7	87984.7	87984.7	87984.7	87984.7	87984.7
2.5°	85421.7	85469.4	85292.7	85674.1	85376.8	86173.2	85777.8	86394.8	86187.2	86532.2
5°	79589.0	79510.4	79460.0	80051.6	79880.6	80735.9	80189.1	80009.6	80564.8	80463.9
7.5°	70780.9	70988.5	70870.7	71024.9	71111.8	72087.7	72396.2	72155.0	72163.4	72303.6
10°	61751.4	61445.7	61011.1	61299.9	61911.2	62337.5	62166.4	62519.8	62441.2	62774.9
12.5°	50641.1	50882.3	50638.3	50380.4	51448.8	51331.0	51628.2	51821.7	51336.6	52416.2
15°	38145.6	38271.8	38569.0	38549.4	39371.0	39536.5	39497.2	39701.9	39323.4	39502.8
17.5°	24505.9	24932.2	25731.4	27083.0	28602.9	28779.6	28734.7	28566.4	28384.2	28182.3
20°	16460.7	16415.8	16704.7	17100.0	20246.4	21079.2	21054.0	20526.8	19764.0	19618.2
22.5°	11530.9	11615.0	11575.8	11968.3	12618.9	14915.6	14632.3	14096.7	13847.2	13684.5
25°	7585.4	7554.5	7750.8	7868.6	8426.6	8707.1	9699.7	9500.6	9116.5	9158.5
27.5°	4624.1	4663.4	4736.3	4837.3	5232.6	5142.9	5709.4	5785.1	5661.7	5529.9
30°	2837.9	2865.9	2924.8	2997.7	3135.1	3037.0	3194.0	3466.0	3421.1	3328.6
32.5°	1926.5	1929.3	1971.4	1999.4	1982.6	1890.0	1940.5	2198.5	2204.1	2195.7
35°	1385.3	1385.3	1424.5	1447.0	1399.3	1323.6	1332.0	1491.8	1561.9	1576.0
37.5°	956.2	959.0	1026.3	1093.6	1040.4	1020.7	987.1	1093.6	1205.8	1222.6
40°	726.3	723.5	757.1	807.6	813.2	776.8	788.0	855.3	970.3	984.3
42.5°	588.9	591.7	608.5	602.9	605.7	653.4	670.2	701.1	807.6	832.8
45°	496.3	499.1	507.6	479.5	468.3	541.2	563.6	580.5	670.2	701.1
47.5°	409.4	415.0	423.4	392.6	387.0	434.7	473.9	490.7	569.3	602.9
50°	294.4	300.0	330.9	314.1	330.9	342.1	395.4	420.6	473.9	518.8
52.5°	213.1	218.7	227.1	229.9	272.0	277.6	316.9	356.1	381.4	431.8
55°	168.3	173.9	168.3	162.6	199.1	229.9	244.0	286.0	305.7	364.5
57.5°	95.3	101.0	109.4	126.2	131.8	176.7	190.7	227.1	244.0	300.0
60°	16.8	19.6	30.8	75.7	92.5	112.2	143.0	173.9	196.3	235.6
62.5°	2.8	2.8	5.6	16.8	53.3	78.5	103.8	123.4	143.0	179.5
65°	0.0	0.0	2.8	5.6	14.0	44.9	56.1	72.9	98.1	129.0
67.5°	0.0	0.0	2.8	5.6	8.4	16.8	25.2	44.9	56.1	86.9
70°	0.0	0.0	2.8	5.6	8.4	11.2	14.0	19.6	33.7	53.3
72.5°	0.0	0.0	2.8	5.6	8.4	11.2	14.0	16.8	16.8	33.7
75°	0.0	0.0	2.8	5.6	8.4	14.0	16.8	16.8	14.0	14.0
77.5°	0.0	0.0	2.8	5.6	11.2	16.8	19.6	16.8	11.2	11.2
80°	0.0	0.0	5.6	8.4	14.0	19.6	25.2	19.6	11.2	5.6
82.5°	0.0	0.0	5.6	11.2	14.0	22.4	30.8	25.2	11.2	5.6
85°	0.0	0.0	2.8	8.4	16.8	22.4	30.8	22.4	11.2	2.8
87.5°	0.0	0.0	2.8	2.8	5.6	8.4	16.8	14.0	5.6	2.8
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°
<i>87984.7</i>	0°	<i>87984.7</i>	<i>87984.7</i>	<i>87984.7</i>	<i>87984.7</i>	<i>87984.7</i>	<i>87984.7</i>	<i>87984.7</i>	<i>87984.7</i>	<i>87984.7</i>
85878.8	2.5°	86372.3	86821.0	86913.5	86790.2	86969.6	86647.1	86400.4	85761.0	85376.8
80433.0	5°	80951.8	80884.5	81352.8	81507.0	81487.4	81240.6	80895.7	80508.7	80133.0
72031.6	7.5°	72480.3	72567.2	72993.5	73265.5	73128.1	72819.6	72581.2	72289.6	72037.2
62895.5	10°	63470.4	62873.1	63403.1	63403.1	63770.4	62898.3	62979.6	62244.9	62278.6
52396.6	12.5°	52576.0	52792.0	52878.9	53128.5	52699.4	52236.7	51670.3	51558.1	51207.6
39160.7	15°	39724.4	40341.3	39811.3	40717.1	40279.6	39797.3	39710.4	38841.0	39115.9
28403.8	17.5°	28263.6	28945.0	29158.1	29676.9	29278.7	28992.7	28630.9	28367.3	28347.7
19884.6	20°	20041.7	20725.9	20882.9	21505.5	21460.6	21370.8	21065.2	20731.5	20369.7
13535.9	22.5°	13740.6	14298.6	14820.2	15658.7	15644.7	15381.1	15350.2	14879.1	14887.5
9144.5	25°	9239.9	9646.5	9769.9	10627.9	10723.3	10695.2	10535.4	10097.9	10263.4
5586.0	27.5°	5591.6	5947.7	6365.5	6668.4	6954.4	6909.6	6749.7	6505.8	6399.2
3356.6	30°	3446.4	3606.2	3760.4	4125.0	4296.0	4385.8	4310.1	4082.9	4099.7
2209.7	32.5°	2257.4	2392.0	2504.2	2734.1	2823.8	2989.3	2958.4	2910.8	2854.7
1590.0	35°	1646.1	1744.2	1819.9	1926.5	2041.5	2181.7	2204.1	2184.5	2162.0
1228.2	37.5°	1256.3	1357.2	1444.2	1489.0	1578.8	1688.1	1749.8	1747.0	1730.2
1001.1	40°	1020.7	1096.4	1175.0	1233.9	1295.5	1376.9	1452.6	1461.0	1461.0
841.3	42.5°	852.5	917.0	995.5	1057.2	1102.1	1177.8	1256.3	1261.9	1256.3
712.3	45°	729.1	785.2	860.9	933.8	970.3	1026.3	1102.1	1118.9	1107.7
611.3	47.5°	633.8	684.2	748.7	827.2	866.5	917.0	987.1	1006.7	1003.9
527.2	50°	544.0	602.9	667.4	731.9	782.4	830.0	897.3	919.8	911.4
448.7	52.5°	479.5	532.8	588.9	659.0	717.9	759.9	813.2	852.5	841.3
378.6	55°	401.0	465.5	524.4	583.3	656.2	701.1	751.5	799.2	788.0
319.7	57.5°	347.7	401.0	468.3	521.6	594.5	647.8	698.2	748.7	745.9
260.8	60°	291.6	347.7	412.2	468.3	535.6	594.5	645.0	701.1	706.7
196.3	62.5°	229.9	297.2	353.3	417.8	485.1	549.6	594.5	650.6	659.0
148.6	65°	173.9	244.0	305.7	367.4	434.7	504.8	544.0	591.7	600.1
109.4	67.5°	129.0	187.9	260.8	316.9	387.0	454.3	490.7	530.0	544.0
67.3	70°	98.1	143.0	218.7	272.0	344.9	398.2	437.5	471.1	482.3
44.9	72.5°	61.7	112.2	176.7	232.7	297.2	344.9	373.0	392.6	409.4
25.2	75°	42.1	86.9	143.0	199.1	246.8	283.2	308.5	325.3	339.3
11.2	77.5°	25.2	67.3	117.8	165.4	196.3	224.3	249.6	260.8	269.2
8.4	80°	14.0	50.5	98.1	134.6	154.2	173.9	193.5	207.5	213.1
5.6	82.5°	8.4	39.3	78.5	103.8	112.2	131.8	151.4	159.8	159.8
2.8	85°	5.6	28.0	53.3	75.7	81.3	95.3	101.0	106.6	112.2
2.8	87.5°	5.6	16.8	33.7	42.1	44.9	50.5	53.3	58.9	64.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
87984.7
85093.6
79712.3
71181.9
61950.5
50887.9
38841.0
27826.1
20212.7
14724.9
10002.6
6306.7
4026.8
2835.1
2153.6
1721.8
1444.2
1250.7
1107.7
998.3
905.8
838.5
793.6
748.7
709.5
664.6
608.5
549.6
487.9
406.6
336.5
266.4
207.5
157.0
109.4
61.7
0.0

(END OF REPORT)