

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: P637130

Luminaire Tested: **IFLD-M-SA4B-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637130
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22713.4 lumens
Efficiency: N/A
Efficacy: 136.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

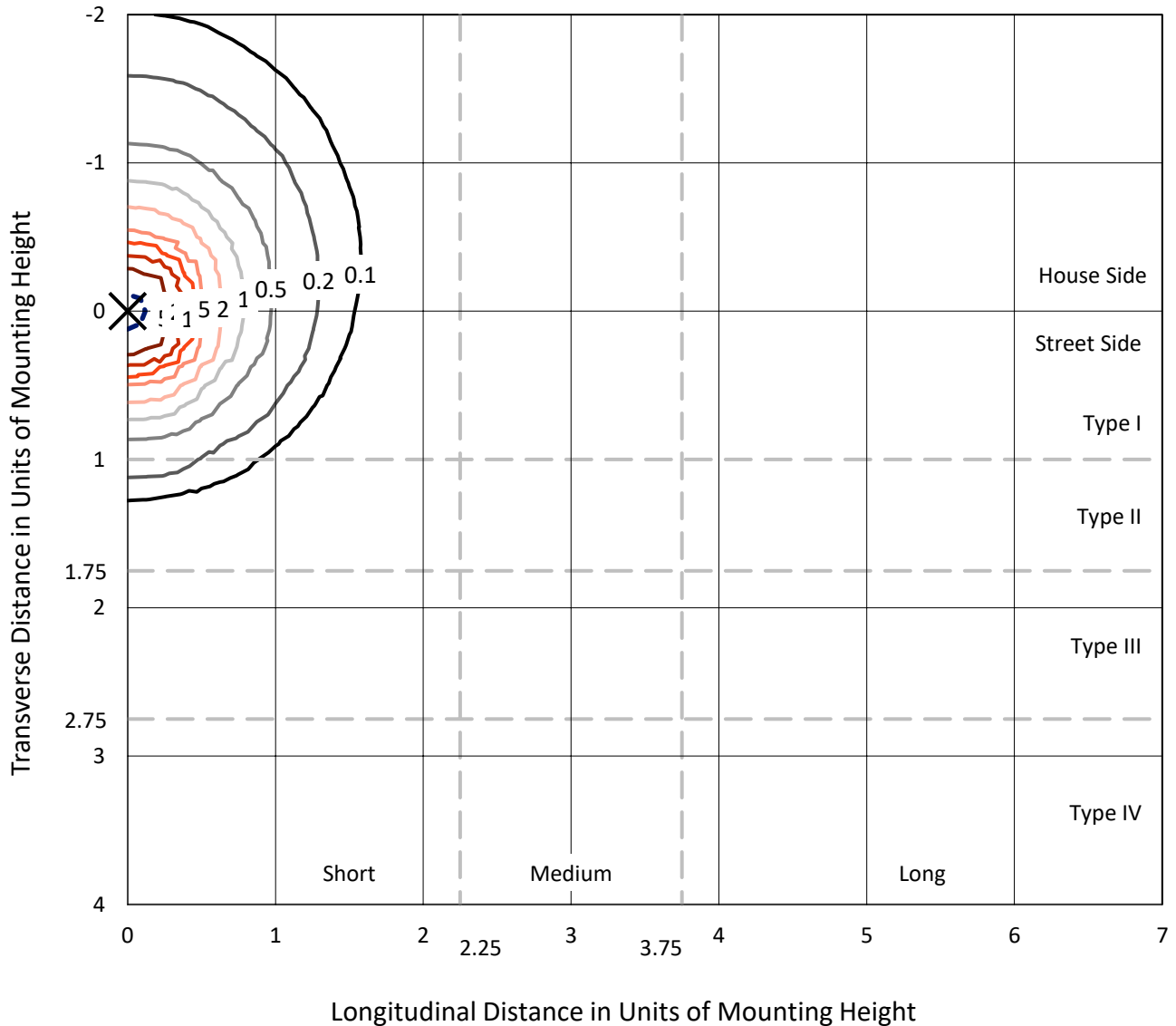
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

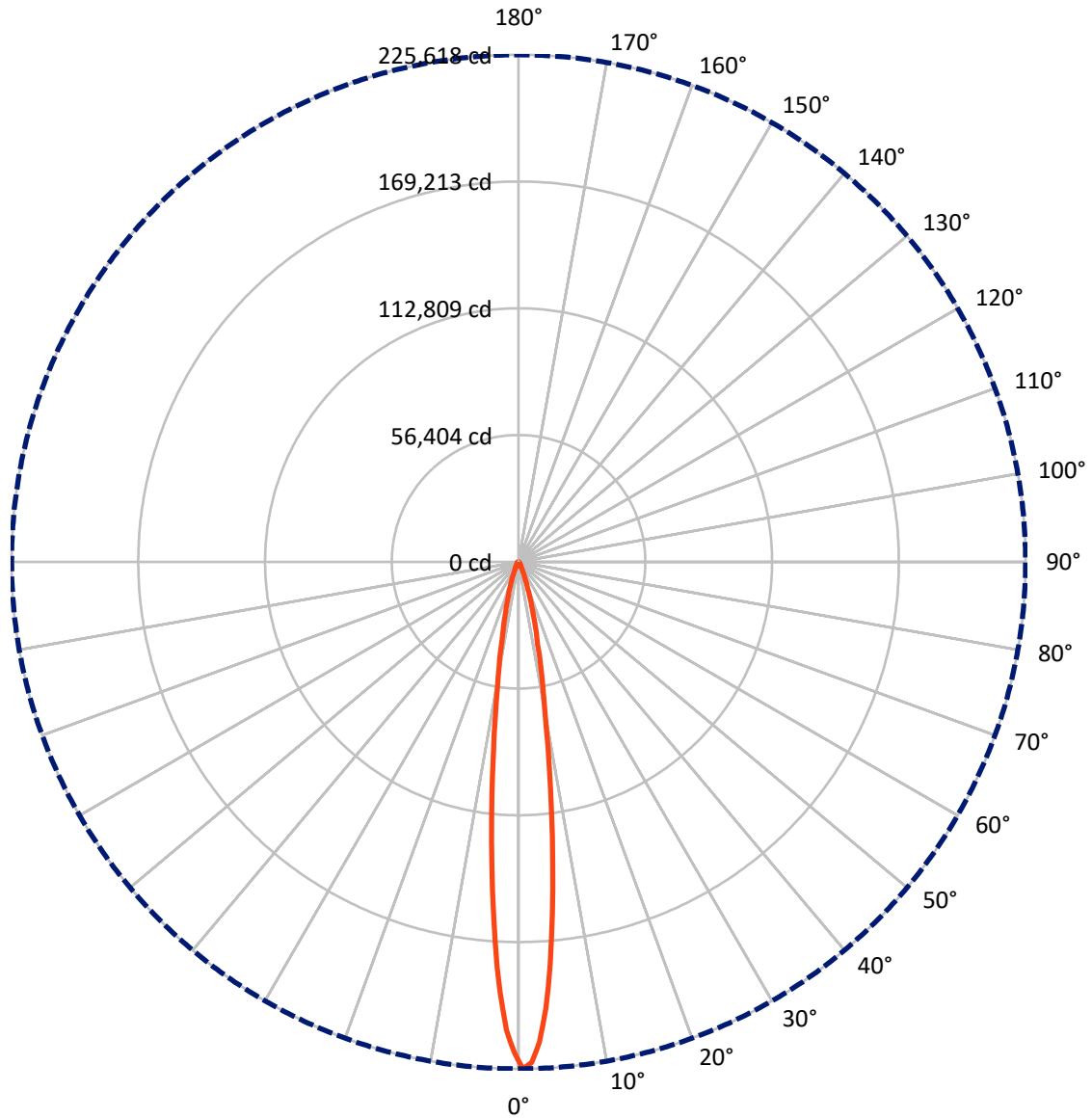
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 564 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	11633.4	0.0	11633.4
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	11080.0	0.0	11080.0
	% Fixture	48.8	0.0	48.8
Total	Lumens	22713.4	0.0	22713.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11466.4	50.5
10°-20°	7340.7	32.3
20°-30°	2206.5	9.7
30°-40°	718.4	3.2
40°-50°	418.0	1.8
50°-60°	277.7	1.2
60°-70°	167.1	0.7
70°-80°	85.9	0.4
80°-90°	32.6	0.1
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°	22713.4	100.0
0°-180°	22713.4	100.0

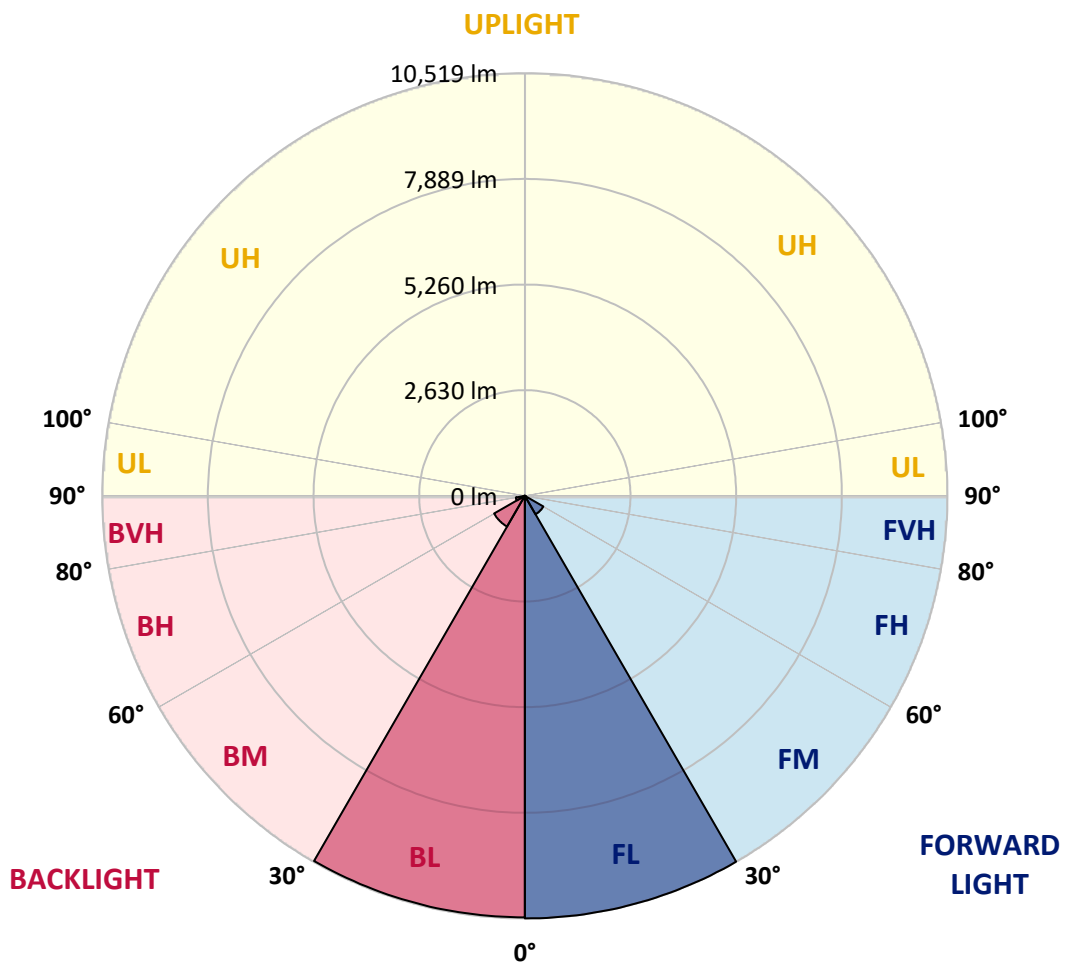


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10519.3	46.3			
FM (30°-60°)	530.8	2.3			
FH (60°-80°)	25.0	0.1			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	10494.4	46.2	B5		
BM (30°-60°)	883.3	3.9	B1/1000		
BH (60°-80°)	228.0	1.0	B1/500		G0/660
BVH (80°-90°)	27.7	0.1			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°	225617.8	225617.8	225617.8	225617.8	225617.8	225617.8	225617.8	225617.8	225617.8	225617.8
1°	222916.4	222236.1	220479.6	221728.9	222827.3	222508.2	222485.9	222367.2	222201.4	223502.7
2°	214005.5	213565.2	210967.7	212038.8	213599.8	212461.9	213174.3	212548.4	212560.8	214114.4
3°	198984.3	199224.3	195080.6	197027.5	199197.1	196438.7	197294.7	198902.7	197218.0	196710.8
4°	179460.7	177377.7	175114.1	177093.2	177654.8	176049.2	177627.5	179596.7	177256.5	177360.4
5°	157171.3	155632.5	152953.3	154175.4	152782.6	153289.8	155654.8	156466.2	154833.5	152777.7
6°	134253.5	133160.1	129810.5	131571.8	131077.1	130790.1	133776.0	131302.2	132192.8	130948.4
7°	111672.2	109628.8	107983.7	109670.8	109779.7	108916.3	112792.8	112342.6	110722.2	110346.2
8°	92522.1	90483.6	89090.8	90347.6	91168.9	89813.2	91636.4	92833.8	91567.2	91681.0
9°	74623.8	74265.0	72328.0	73970.7	74863.7	73411.6	75430.2	75863.2	74678.2	75254.6
10°	61272.4	60854.3	59308.1	59973.6	61453.0	59721.3	61658.3	61799.3	60854.3	61123.9
12.5°	37864.8	37696.6	37654.5	37751.0	37731.2	38038.0	38532.7	37968.7	37894.5	36961.8
15°	24473.8	24723.7	24466.4	24961.2	25032.9	25322.4	25020.5	24565.4	23697.0	23266.6
17.5°	15273.6	15592.7	16033.0	16757.9	17482.7	17566.8	17166.1	16631.7	16211.2	15751.0
20°	8787.1	8943.0	8876.2	9744.5	11619.7	12129.3	11612.3	11050.7	10543.6	10078.5
22.5°	5459.8	5402.9	5506.8	5798.7	6409.8	7985.6	7562.6	7001.0	6632.4	6249.0
25°	3347.1	3409.0	3369.4	3530.2	3804.8	4472.7	4569.2	4326.8	4138.8	3940.8
27.5°	2154.7	2154.7	2172.0	2261.1	2449.1	2426.8	2941.4	2753.4	2652.0	2555.5
30°	1496.7	1501.6	1501.6	1553.6	1595.6	1521.4	1655.0	1897.4	1850.4	1776.2
32.5°	1110.8	1125.6	1138.0	1165.2	1130.6	1051.4	1083.5	1365.6	1338.4	1311.1
35°	846.1	858.4	888.1	903.0	853.5	804.0	774.3	1004.4	1016.8	1009.3
37.5°	616.0	623.4	677.8	734.7	677.8	633.3	616.0	771.8	831.2	823.8
40°	472.5	475.0	484.9	549.2	549.2	514.6	519.5	576.4	680.3	680.3
42.5°	405.7	405.7	415.6	405.7	408.2	445.3	457.7	465.1	576.4	576.4
45°	351.3	351.3	356.2	331.5	306.8	383.4	393.3	395.8	484.9	497.2
47.5°	294.4	294.4	304.3	272.1	259.8	304.3	331.5	338.9	418.1	428.0
50°	217.7	220.2	249.9	222.6	230.1	235.0	287.0	291.9	353.8	376.0
52.5°	146.0	146.0	150.9	173.2	200.4	193.0	232.5	249.9	282.0	311.7
55°	118.7	118.7	116.3	111.3	148.4	160.8	170.7	207.8	230.1	267.2
57.5°	81.6	86.6	79.2	91.5	96.5	121.2	128.6	163.3	175.6	225.1
60°	9.9	12.4	17.3	66.8	64.3	81.6	96.5	128.6	143.5	173.2
62.5°	2.5	2.5	4.9	12.4	44.5	54.4	76.7	89.1	103.9	133.6
65°	0.0	0.0	2.5	4.9	9.9	29.7	39.6	52.0	74.2	94.0
67.5°	0.0	0.0	2.5	4.9	4.9	12.4	19.8	32.2	39.6	69.3
70°	0.0	0.0	2.5	4.9	4.9	9.9	12.4	14.8	27.2	37.1
72.5°	0.0	0.0	2.5	4.9	7.4	9.9	12.4	12.4	12.4	24.7
75°	0.0	0.0	2.5	4.9	7.4	9.9	12.4	12.4	9.9	9.9
77.5°	0.0	0.0	2.5	4.9	9.9	12.4	14.8	12.4	7.4	7.4
80°	0.0	0.0	2.5	7.4	12.4	17.3	19.8	14.8	7.4	4.9
82.5°	0.0	0.0	4.9	9.9	14.8	19.8	27.2	22.3	9.9	4.9
85°	0.0	0.0	2.5	7.4	14.8	19.8	39.6	27.2	12.4	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	4.9	14.8	9.9	4.9	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°
225617.8	0°	225617.8	225617.8	225617.8	225617.8	225617.8	225617.8	225617.8	225617.8
222001.0	1°	223552.1	223708.0	223198.4	223987.5	223710.5	222087.6	221550.8	220915.0
213201.5	2°	212548.4	213342.6	213382.1	214257.9	214245.5	212353.0	211766.7	212847.8
197740.0	3°	197141.3	198066.5	197232.8	198788.9	198321.3	196025.6	195429.4	196656.4
178181.7	4°	177649.8	177474.2	177187.2	176301.6	177392.5	175826.6	174646.6	176311.5
155503.9	5°	155192.2	154801.3	154242.2	153980.0	154791.4	153789.5	151362.7	153794.5
133199.6	6°	133362.9	131680.7	131599.1	131453.1	131534.7	128729.4	128897.6	130708.5
109052.4	7°	110205.2	110514.4	109883.6	110895.4	110123.5	108223.6	107491.4	109398.7
92180.7	8°	91537.5	91146.6	90664.2	92175.7	90837.4	89590.6	88737.1	90243.7
75348.6	9°	75207.6	74532.2	74042.4	73965.7	74173.5	71833.3	72308.2	73448.7
61272.4	10°	61294.6	60186.4	60456.0	60527.7	60300.2	58766.4	58781.2	59174.5
37580.3	12.5°	37446.7	36902.5	37038.5	37112.7	37575.3	37036.0	36274.1	35724.9
23694.6	15°	23536.2	23145.4	23944.4	24481.2	24372.4	23892.5	23533.8	23036.5
15751.0	17.5°	15605.1	16117.1	16119.6	16609.4	16658.9	16179.0	15901.9	15454.2
10244.2	20°	10207.1	10419.9	10862.7	11209.0	11409.4	11043.3	10711.8	10405.0
6387.5	22.5°	6387.5	6758.6	7035.6	7485.9	7668.9	7401.8	7166.8	6916.9
3987.9	25°	3921.1	4185.8	4415.8	4806.7	5056.6	4927.9	4712.7	4537.0
2575.3	27.5°	2614.9	2726.2	2840.0	3109.6	3369.4	3297.6	3211.1	3104.7
1815.8	30°	1843.0	1852.9	1974.1	2125.0	2298.2	2342.7	2303.2	2248.7
1333.4	32.5°	1358.1	1397.7	1454.6	1548.6	1664.9	1771.3	1751.5	1726.7
1019.2	35°	1048.9	1108.3	1155.3	1227.0	1288.9	1390.3	1407.6	1400.2
838.6	37.5°	856.0	907.9	954.9	997.0	1048.9	1118.2	1172.6	1175.1
692.7	40°	710.0	757.0	818.8	851.0	888.1	940.1	1006.9	1011.8
586.3	42.5°	598.7	643.2	705.0	744.6	771.8	821.3	888.1	898.0
502.2	45°	514.6	541.8	606.1	653.1	680.3	712.5	784.2	794.1
432.9	47.5°	447.8	475.0	514.6	581.4	606.1	635.8	692.7	710.0
383.4	50°	393.3	420.6	455.2	514.6	551.7	576.4	623.4	648.1
334.0	52.5°	348.8	376.0	413.1	460.1	502.2	524.5	569.0	601.1
272.1	55°	291.9	338.9	366.1	408.2	465.1	484.9	519.5	561.6
237.5	57.5°	254.8	294.4	334.0	368.6	425.5	450.2	484.9	524.5
188.0	60°	215.2	252.3	299.3	329.0	383.4	415.6	452.7	489.8
143.5	62.5°	170.7	220.2	252.3	294.4	346.3	388.4	418.1	455.2
111.3	65°	126.2	180.6	217.7	262.2	311.7	356.2	381.0	420.6
79.2	67.5°	91.5	141.0	185.5	227.6	274.6	319.1	343.9	378.5
49.5	70°	71.7	103.9	153.4	190.5	240.0	277.1	304.3	326.5
32.2	72.5°	42.1	79.2	123.7	165.7	210.3	235.0	254.8	274.6
14.8	75°	27.2	61.8	101.4	138.5	170.7	193.0	210.3	227.6
7.4	77.5°	17.3	44.5	81.6	116.3	131.1	158.3	173.2	183.1
4.9	80°	9.9	34.6	71.7	94.0	106.4	123.7	138.5	150.9
4.9	82.5°	7.4	29.7	59.4	79.2	79.2	99.0	106.4	106.4
2.5	85°	4.9	24.7	47.0	74.2	59.4	74.2	69.3	69.3
2.5	87.5°	4.9	17.3	22.3	32.2	27.2	32.2	32.2	37.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
225617.8
218396.6
208268.7
191206.5
170285.2
147387.2
125458.9
104211.0
85941.6
69886.3
56497.8
35390.9
22781.7
15342.8
10298.6
6783.3
4435.6
3042.8
2211.6
1707.0
1375.5
1157.8
1004.4
890.6
791.6
712.5
650.6
601.1
564.0
526.9
499.7
472.5
428.0
381.0
334.0
279.5
227.6
178.1
136.1
99.0
66.8
37.1
0.0

(END OF REPORT)