

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: P480908

Luminaire Tested: **IFLD-M-SA4C-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480908
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

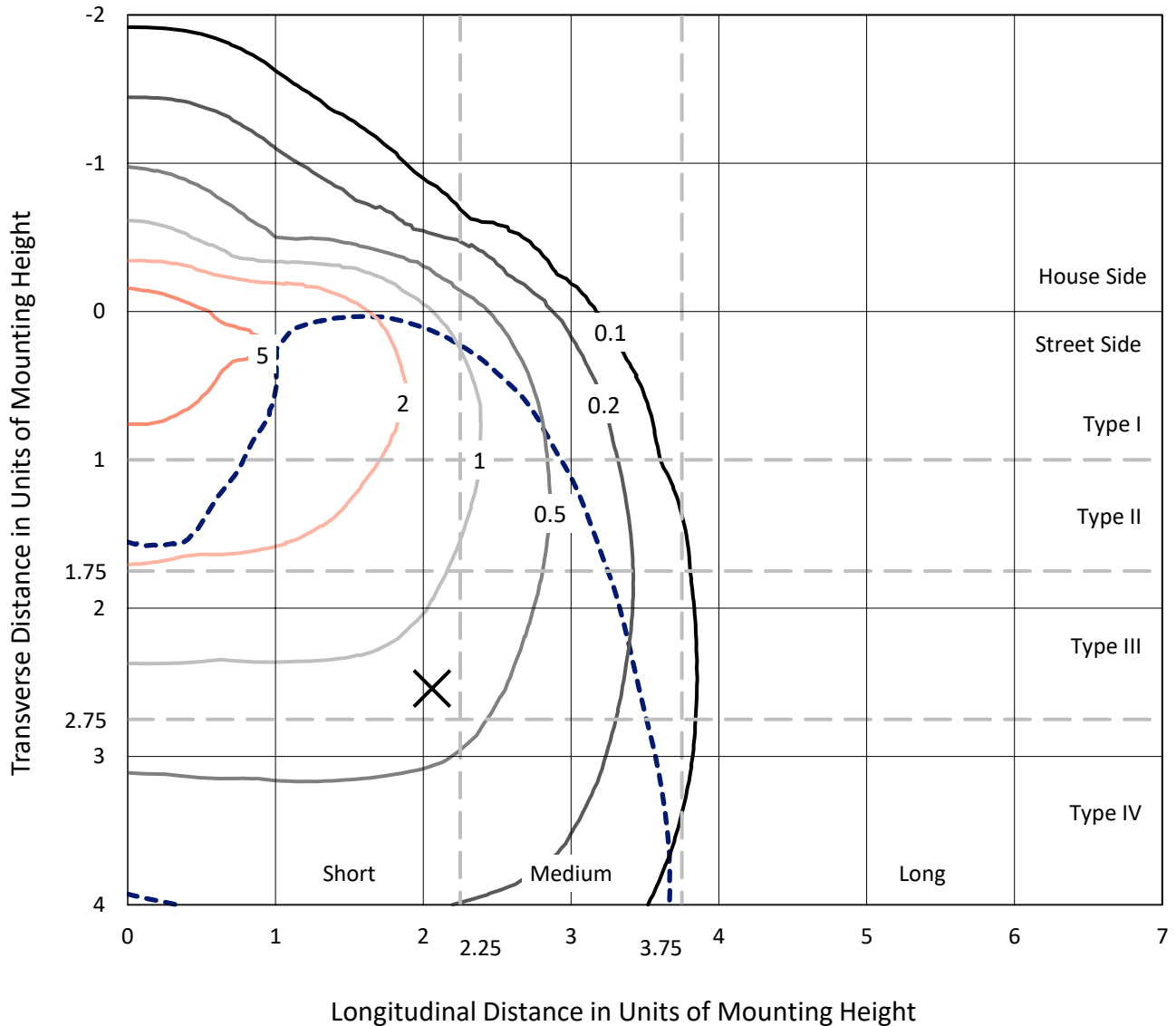
Lumens per Lamp: N/A
Luminaire Lumens: 27501.4 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

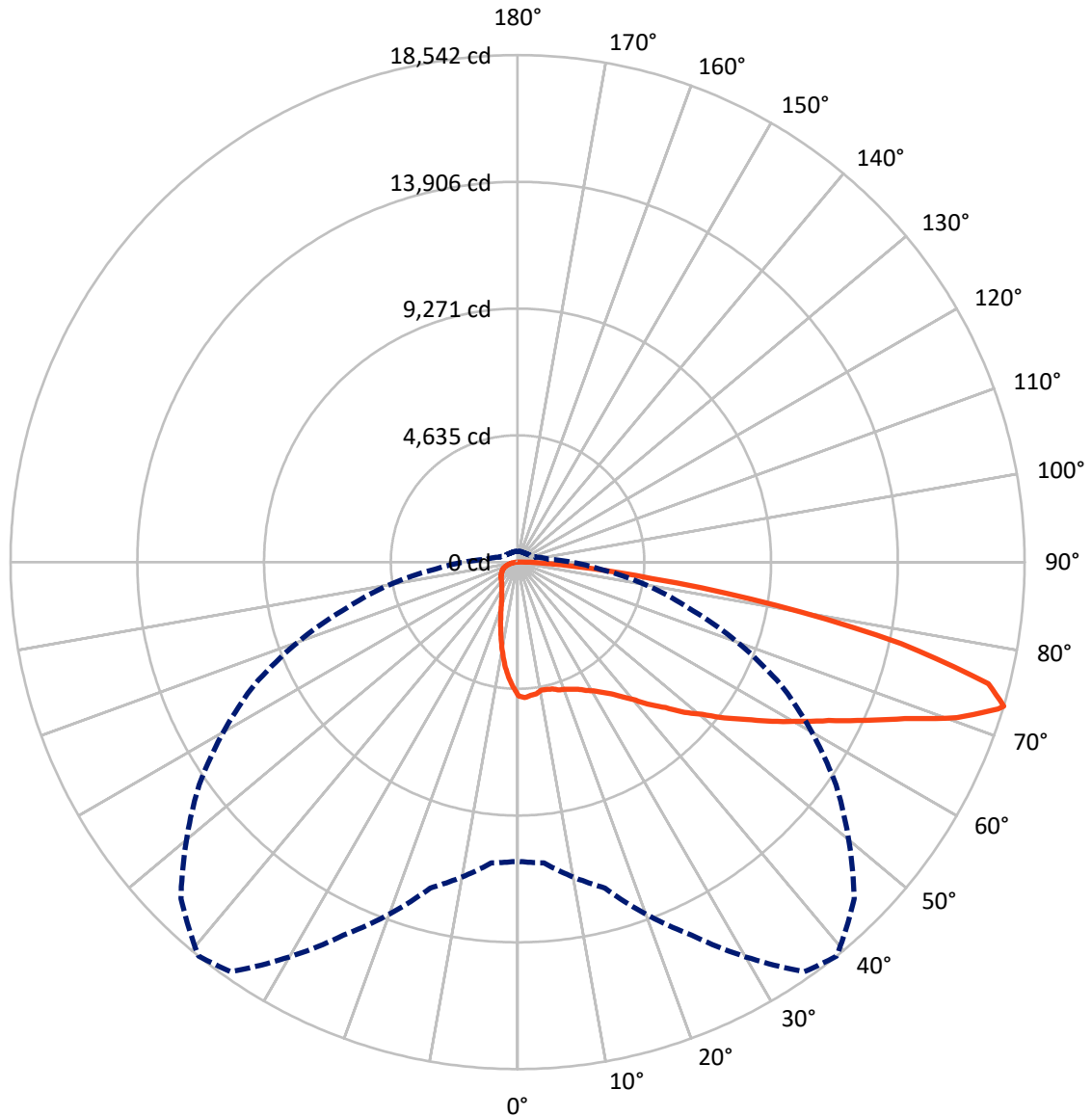
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3865.9	0.0	3865.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	23635.5	0.0	23635.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	27501.4	0.0	27501.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.0	1.5
10°-20°	1080.3	3.9
20°-30°	1650.8	6.0
30°-40°	2407.0	8.8
40°-50°	3637.2	13.2
50°-60°	5266.8	19.2
60°-70°	6691.8	24.3
70°-80°	5424.7	19.7
80°-90°	917.8	3.3
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°	27501.4	100.0
0°-180°	27501.4	100.0

Coefficient of Utilization



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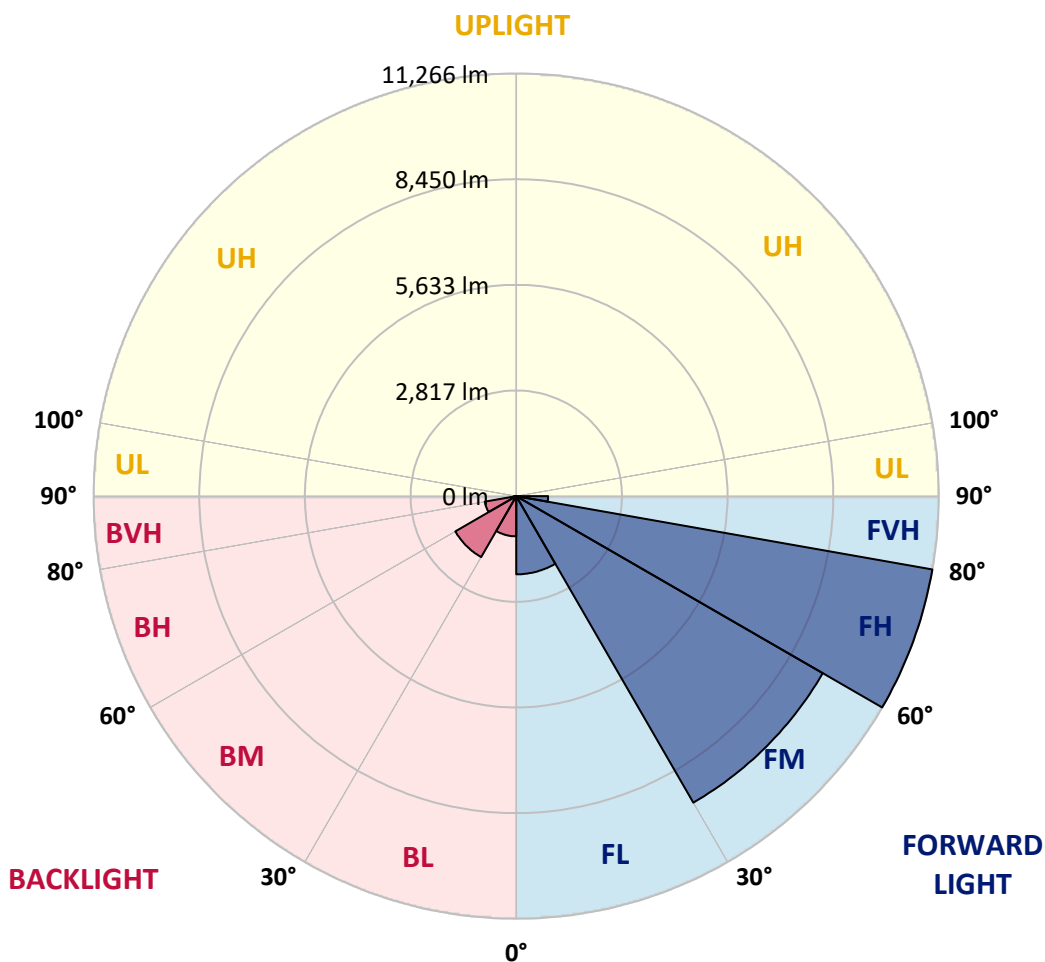
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2084.0	7.6			
FM (30°-60°)	9434.7	34.3			
FH (60°-80°)	11266.2	41.0			G4/12000
FVH (80°-90°)	850.5	3.1			G5
BL (0°-30°)	1072.1	3.9	B3/2500		
BM (30°-60°)	1876.2	6.8	B2/2500		
BH (60°-80°)	850.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	67.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4
2.5°	5012.3	4960.0	4969.3	4950.8	4969.3	4963.1	4953.9	4907.7	4953.9	4907.7	4895.4
5°	4944.6	4944.6	4975.4	4929.3	4935.4	4904.6	4935.4	4901.6	4870.8	4793.9	4772.3
7.5°	4923.1	4920.0	4923.1	4858.5	4889.3	4870.8	4840.0	4803.1	4741.6	4692.3	4621.6
10°	4775.4	4806.2	4772.3	4790.8	4815.4	4760.0	4757.0	4747.7	4720.0	4655.4	4612.3
12.5°	4695.4	4747.7	4766.2	4750.8	4772.3	4778.5	4760.0	4747.7	4713.9	4670.8	4547.7
15°	4729.3	4667.7	4720.0	4821.6	4800.0	4815.4	4818.5	4806.2	4790.8	4710.8	4630.8
17.5°	4738.5	4701.6	4812.3	4833.9	4861.6	4917.0	4880.0	4877.0	4818.5	4763.1	4646.2
20°	4760.0	4744.6	4833.9	4947.7	4950.8	4960.0	4978.5	4932.3	4901.6	4806.2	4627.7
22.5°	4840.0	4892.3	4975.4	5024.6	5052.3	5058.5	5058.5	4966.2	4932.3	4855.4	4713.9
25°	5080.0	5024.6	5141.6	5200.0	5160.0	5150.8	5129.3	5046.2	5009.3	4941.6	4753.9
27.5°	5255.4	5252.3	5320.0	5400.0	5292.3	5313.9	5237.0	5212.3	5129.3	5092.3	4824.6
30°	5495.4	5563.1	5560.0	5584.7	5443.1	5467.7	5369.3	5323.1	5277.0	5298.5	5033.9
32.5°	5803.1	5778.5	5818.5	5800.0	5658.5	5680.0	5563.1	5492.3	5507.7	5572.3	5320.0
35°	6000.0	5975.4	5990.8	5990.8	5947.7	5923.1	5873.9	5781.6	5855.4	5975.4	5640.0
37.5°	6212.3	6243.1	6332.3	6313.9	6258.5	6258.5	6252.3	6187.7	6283.1	6578.5	6150.8
40°	6400.0	6483.1	6538.5	6575.4	6640.0	6640.0	6692.4	6655.4	6827.7	7301.6	6775.4
42.5°	6597.0	6600.0	6901.6	6929.3	7073.9	7135.4	7175.4	7206.2	7529.3	8058.5	7443.1
45°	6849.3	6864.7	7129.3	7341.6	7566.2	7587.7	7738.5	7840.0	8237.0	8886.2	8169.3
47.5°	7181.6	7163.1	7446.2	7784.7	8064.7	8212.4	8393.9	8504.7	8993.9	9784.7	8963.1
50°	7618.5	7563.1	7726.2	8258.5	8587.7	8750.8	9073.9	9258.5	9830.8	10643.1	9507.8
52.5°	8150.8	8058.5	8187.7	8769.3	9138.5	9467.8	9775.4	9981.6	10578.5	11307.8	9910.8
55°	8713.9	8523.1	8560.1	9310.8	9843.1	10153.9	10575.5	10790.8	11400.1	11904.7	10313.9
57.5°	9270.8	9150.8	9077.0	9830.8	10683.1	10981.6	11369.3	11649.3	12166.2	12433.9	10655.5
60°	9738.5	9707.8	9587.8	10637.0	11572.4	11827.8	12233.9	12406.2	12797.0	12923.2	10661.6
62.5°	10123.1	10018.5	10209.3	11286.2	12477.0	12766.2	13212.4	13227.8	13504.7	13227.8	10347.8
65°	10424.7	10430.8	10735.5	12070.8	13523.2	13950.9	14310.9	14270.9	14092.4	13046.2	9606.2
67.5°	10698.5	10815.5	11261.6	12932.4	14867.8	15270.9	15670.9	15141.6	14252.4	12197.0	8157.0
70°	10913.9	11030.8	11972.4	13981.6	16452.4	17043.2	17132.4	15486.3	13517.0	10332.4	6153.9
72.5°	10889.3	11101.6	12375.5	14818.6	17858.6	18369.3	17649.3	14517.0	11261.6	7203.1	3590.8
73°	10941.6	11046.2	12341.6	15052.4	18286.3	18541.7	17409.3	14212.4	10621.6	6461.6	3036.9
75°	9932.4	10286.2	11729.3	14670.9	17827.8	17781.7	16030.9	11843.2	7550.8	3393.9	1470.8
77.5°	7347.7	7572.4	9243.1	12064.7	14633.9	14338.6	12092.4	7569.3	3584.6	1258.5	793.9
80°	3590.8	3766.2	4898.5	6966.2	9569.3	9593.9	7504.7	3938.5	1535.4	710.8	541.5
82.5°	1793.9	1898.5	2353.9	3061.6	4707.7	4932.3	3806.2	2240.0	950.8	403.1	307.7
85°	1172.3	1246.2	1449.2	1498.5	1996.9	2107.7	1772.3	1747.7	618.5	218.5	249.2
87.5°	778.5	790.8	889.2	756.9	800.0	769.2	855.4	1101.5	181.5	92.3	67.7
90°	0.0	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°	180°
0°	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4	4895.4
2.5°	4880.0	4837.0	4790.8	4726.2	4680.0	4609.3	4544.6	4517.0	4510.8	4513.9	4483.1
5°	4753.9	4692.3	4600.0	4467.7	4390.8	4273.9	4175.4	4123.1	4067.7	4076.9	4052.3
7.5°	4578.5	4510.8	4369.3	4215.4	4024.6	3858.5	3766.2	3636.9	3563.1	3507.7	3538.5
10°	4523.1	4406.2	4193.9	3981.6	3686.2	3467.7	3255.4	3107.7	3006.2	2907.7	2950.8
12.5°	4495.4	4378.5	4083.1	3769.3	3387.7	3055.4	2756.9	2575.4	2430.8	2344.6	2378.5
15°	4470.8	4326.2	3978.5	3535.4	3107.7	2670.8	2335.4	2095.4	1956.9	1873.9	1883.1
17.5°	4504.6	4298.5	3824.6	3307.7	2800.0	2332.3	1960.0	1710.8	1569.2	1516.9	1504.6
20°	4470.8	4267.7	3673.9	3080.0	2492.3	2009.2	1652.3	1446.2	1347.7	1304.6	1295.4
22.5°	4483.1	4193.9	3516.9	2827.7	2206.2	1738.5	1446.2	1289.2	1212.3	1190.8	1196.9
25°	4541.6	4150.8	3360.0	2550.8	1923.1	1538.5	1313.9	1193.9	1138.5	1116.9	1123.1
27.5°	4584.6	4187.7	3218.5	2289.2	1683.1	1360.0	1203.1	1123.1	1086.2	1070.8	1067.7
30°	4692.3	4209.3	3080.0	2055.4	1486.2	1243.1	1126.2	1061.5	1036.9	1027.7	1024.6
32.5°	4852.3	4249.3	2920.0	1840.0	1341.5	1132.3	1064.6	1009.2	1003.1	993.9	996.9
35°	5113.9	4387.7	2741.6	1655.4	1203.1	1058.5	1000.0	963.1	963.1	963.1	972.3
37.5°	5489.3	4581.6	2581.6	1480.0	1113.9	993.9	944.6	932.3	926.2	935.4	941.5
40°	5972.3	4815.4	2452.3	1341.5	1036.9	950.8	907.7	901.5	898.5	895.4	901.5
42.5°	6501.6	5113.9	2341.6	1233.9	981.5	904.6	873.9	867.7	855.4	861.5	870.8
45°	7027.7	5483.1	2243.1	1147.7	944.6	880.0	836.9	833.9	827.7	824.6	840.0
47.5°	7612.4	5846.2	2212.3	1095.4	916.9	843.1	812.3	809.2	790.8	787.7	800.0
50°	8067.7	6113.9	2246.2	1070.8	876.9	815.4	793.9	778.5	763.1	747.7	747.7
52.5°	8381.6	6298.5	2270.8	1052.3	855.4	778.5	750.8	744.6	729.2	713.9	707.7
55°	8664.7	6409.3	2276.9	1055.4	833.9	735.4	716.9	713.9	704.6	680.0	673.9
57.5°	8760.1	6363.1	2153.9	1027.7	821.5	707.7	683.1	689.2	676.9	655.4	652.3
60°	8750.8	6043.1	1873.9	990.8	793.9	676.9	646.2	664.6	664.6	640.0	636.9
62.5°	8218.5	5304.6	1532.3	920.0	763.1	646.2	612.3	640.0	649.2	633.9	630.8
65°	7113.9	4320.0	1280.0	849.2	716.9	612.3	578.5	609.2	624.6	618.5	615.4
67.5°	5886.2	3304.6	1064.6	756.9	658.5	566.2	538.5	560.0	569.2	572.3	575.4
70°	4160.0	2200.0	889.2	655.4	578.5	516.9	486.2	489.2	486.2	495.4	495.4
72.5°	2261.6	1267.7	723.1	556.9	498.5	449.2	427.7	412.3	412.3	409.2	409.2
73°	1935.4	1138.5	689.2	541.5	476.9	436.9	412.3	400.0	400.0	396.9	393.8
75°	1086.2	833.9	590.8	464.6	412.3	381.5	363.1	344.6	341.5	341.5	341.5
77.5°	713.9	649.2	470.8	372.3	332.3	304.6	298.5	280.0	280.0	280.0	276.9
80°	535.4	510.8	363.1	283.1	255.4	233.8	227.7	215.4	212.3	200.0	203.1
82.5°	356.9	403.1	264.6	200.0	172.3	160.0	160.0	156.9	147.7	132.3	132.3
85°	283.1	329.2	190.8	123.1	101.5	86.2	89.2	86.2	83.1	67.7	64.6
87.5°	52.3	132.3	55.4	33.8	24.6	15.4	15.4	9.2	6.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)