

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: P637016

Luminaire Tested: **IFLD-M-SA4D-722-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637016
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-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22916.6 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

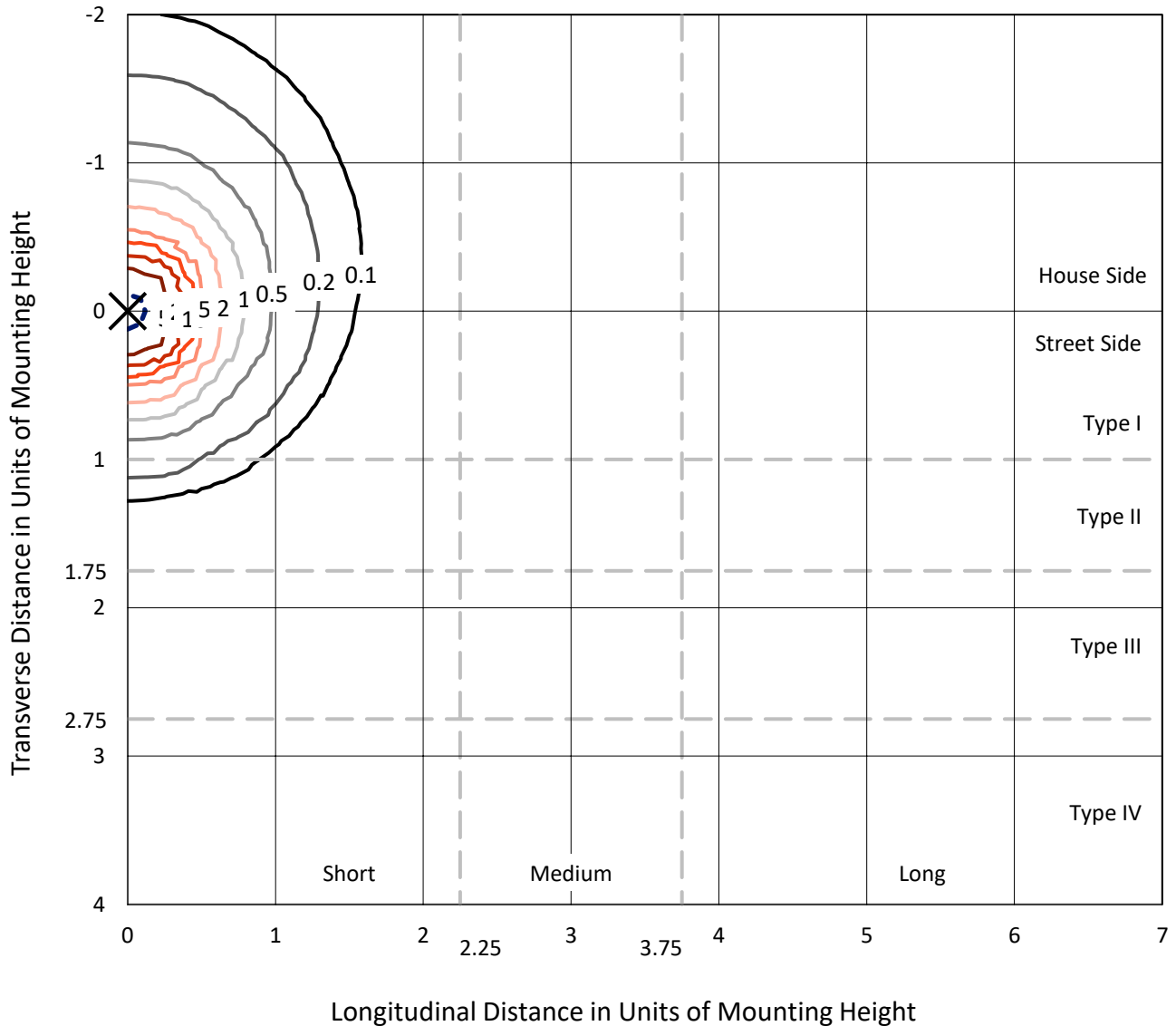
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

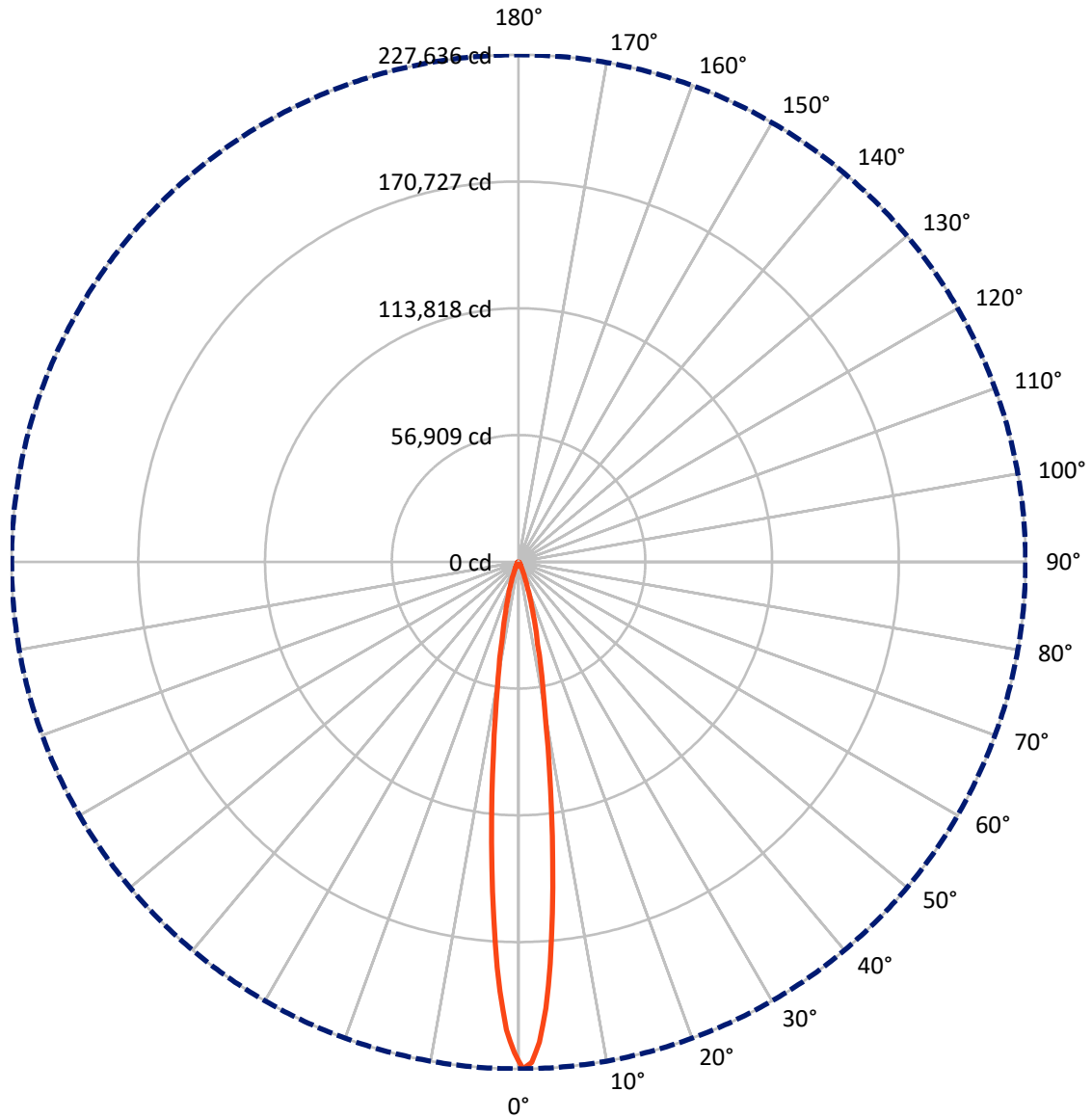
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 569.1 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	11737.5	0.0	11737.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	11179.1	0.0	11179.1
	% Fixture	48.8	0.0	48.8
Total	Lumens	22916.6	0.0	22916.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11569.0	50.5
10°-20°	7406.4	32.3
20°-30°	2226.2	9.7
30°-40°	724.9	3.2
40°-50°	421.7	1.8
50°-60°	280.1	1.2
60°-70°	168.6	0.7
70°-80°	86.7	0.4
80°-90°	32.9	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°	22916.6	100.0
0°-180°	22916.6	100.0

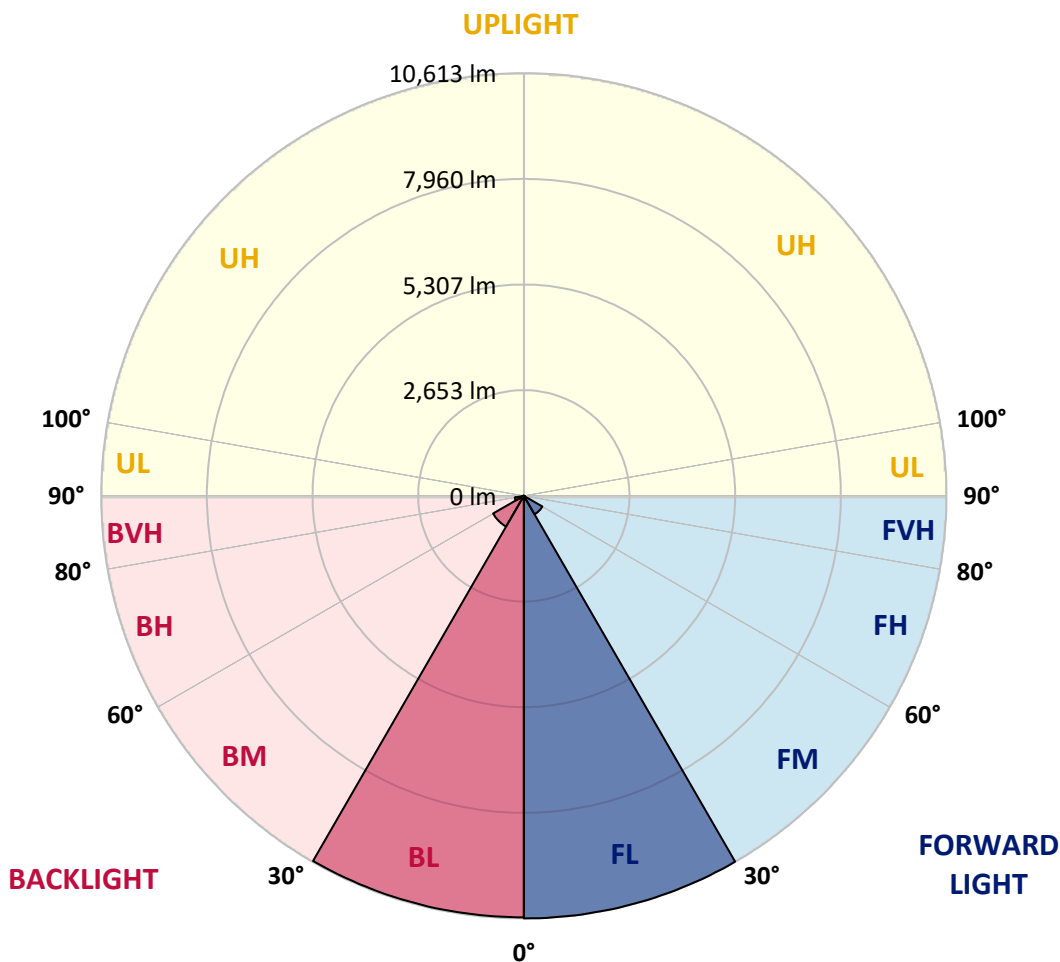


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	10613.4	46.3			
FM (30°-60°)	535.6	2.3			
FH (60°-80°)	25.2	0.1			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	10588.2	46.2	B5		
BM (30°-60°)	891.2	3.9	B1/1000		
BH (60°-80°)	230.1	1.0	B1/500		G0/660
BVH (80°-90°)	28.0	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°	227635.9	227635.9	227635.9	227635.9	227635.9	227635.9	227635.9	227635.9	227635.9	227635.9
1°	224910.3	224223.9	222451.8	223712.3	224820.5	224498.5	224476.0	224356.2	224189.0	225501.9
2°	215919.8	215475.5	212854.7	213935.5	215510.5	214362.3	215081.2	214449.7	214462.2	216029.6
3°	200764.2	201006.3	196825.6	198789.9	200978.9	198195.9	199059.5	200681.8	198982.1	198470.4
4°	181065.9	178964.3	176680.5	178677.3	179243.9	177624.0	179216.4	181203.2	178842.0	178946.8
5°	158577.1	157024.6	154321.5	155554.5	154149.3	154661.0	157047.1	157865.8	156218.4	154144.3
6°	135454.4	134351.2	130971.6	132748.7	132249.5	131960.0	134972.7	132476.7	133375.2	132119.8
7°	112671.1	110609.4	108949.6	110651.8	110761.6	109890.5	113801.7	113347.5	111712.6	111333.2
8°	93349.7	91293.0	89887.8	91155.7	91984.4	90616.6	92456.1	93664.2	92386.2	92501.0
9°	75291.3	74929.3	72975.0	74632.3	75533.4	74068.2	76105.0	76541.7	75346.2	75927.7
10°	61820.5	61398.6	59838.6	60510.1	62002.7	60255.5	62209.8	62352.1	61398.6	61670.7
12.5°	38203.5	38033.8	37991.3	38088.7	38068.7	38378.2	38877.4	38308.3	38233.4	37292.4
15°	24692.7	24944.8	24685.3	25184.4	25256.8	25548.9	25244.3	24785.1	23909.0	23474.7
17.5°	15410.2	15732.2	16176.5	16907.8	17639.1	17724.0	17319.6	16780.5	16356.2	15891.9
20°	8865.7	9023.0	8955.6	9831.7	11723.6	12237.8	11716.1	11149.5	10637.9	10168.6
22.5°	5508.6	5451.2	5556.1	5850.6	6467.1	8057.0	7630.2	7063.6	6691.7	6304.8
25°	3377.1	3439.5	3399.5	3561.8	3838.8	4512.7	4610.1	4365.5	4175.8	3976.1
27.5°	2174.0	2174.0	2191.5	2281.3	2471.0	2448.6	2967.7	2778.0	2675.7	2578.3
30°	1510.1	1515.1	1515.1	1567.5	1609.9	1535.0	1669.8	1914.4	1867.0	1792.1
32.5°	1120.7	1135.7	1148.2	1175.6	1140.7	1060.8	1093.2	1377.8	1350.3	1322.9
35°	853.6	866.1	896.1	911.0	861.1	811.2	781.2	1013.4	1025.8	1018.4
37.5°	621.5	629.0	683.9	741.3	683.9	639.0	621.5	778.7	838.6	831.2
40°	476.7	479.2	489.2	554.1	554.1	519.2	524.2	581.6	686.4	686.4
42.5°	409.3	409.3	419.3	409.3	411.8	449.3	461.8	469.2	581.6	581.6
45°	354.4	354.4	359.4	334.5	309.5	386.9	396.9	399.4	489.2	501.7
47.5°	297.0	297.0	307.0	274.6	262.1	307.0	334.5	341.9	421.8	431.8
50°	219.6	222.1	252.1	224.6	232.1	237.1	289.5	294.5	356.9	379.4
52.5°	147.3	147.3	152.3	174.7	202.2	194.7	234.6	252.1	284.5	314.5
55°	119.8	119.8	117.3	112.3	149.8	162.2	172.2	209.7	232.1	269.6
57.5°	82.4	87.4	79.9	92.4	97.3	122.3	129.8	164.7	177.2	227.1
60°	10.0	12.5	17.5	67.4	64.9	82.4	97.3	129.8	144.8	174.7
62.5°	2.5	2.5	5.0	12.5	44.9	54.9	77.4	89.9	104.8	134.8
65°	0.0	0.0	2.5	5.0	10.0	30.0	39.9	52.4	74.9	94.8
67.5°	0.0	0.0	2.5	5.0	5.0	12.5	20.0	32.4	39.9	69.9
70°	0.0	0.0	2.5	5.0	5.0	10.0	12.5	15.0	27.5	37.4
72.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	12.5	12.5	25.0
75°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	12.5	10.0	10.0
77.5°	0.0	0.0	2.5	5.0	10.0	12.5	15.0	12.5	7.5	7.5
80°	0.0	0.0	2.5	7.5	12.5	17.5	20.0	15.0	7.5	5.0
82.5°	0.0	0.0	5.0	10.0	15.0	20.0	27.5	22.5	10.0	5.0
85°	0.0	0.0	2.5	7.5	15.0	20.0	39.9	27.5	12.5	2.5
87.5°	0.0	0.0	0.0	2.5	2.5	5.0	15.0	10.0	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°
227635.9	0°	227635.9	227635.9	227635.9	227635.9	227635.9	227635.9	227635.9	227635.9
223986.8	1°	225551.8	225709.0	225194.9	225991.1	225711.5	224074.2	223532.6	222891.1
215108.6	2°	214449.7	215250.9	215290.8	216174.4	216161.9	214252.5	213660.9	214751.7
199508.7	3°	198904.7	199838.2	198997.1	200567.0	200095.3	197779.0	197177.5	198415.5
179775.5	4°	179238.9	179061.7	178772.1	177878.6	178979.3	177399.3	176208.8	177888.6
156894.9	5°	156580.4	156186.0	155621.9	155357.3	156176.0	155165.1	152716.6	155170.1
134391.1	6°	134555.8	132858.6	132776.2	132628.9	132711.3	129880.9	130050.6	131877.6
110027.8	7°	111191.0	111503.0	110866.5	111887.3	111108.6	109191.7	108452.9	110377.3
93005.2	8°	92356.3	91961.9	91475.2	93000.2	91649.9	90391.9	89530.8	91050.9
76022.6	9°	75880.3	75198.9	74704.7	74627.3	74837.0	72475.8	72955.0	74105.7
61820.5	10°	61842.9	60724.7	60996.8	61069.2	60839.5	59292.0	59307.0	59703.9
37916.4	12.5°	37781.7	37232.5	37369.8	37444.7	37911.5	37367.3	36598.6	36044.5
23906.5	15°	23746.8	23352.4	24158.6	24700.2	24590.4	24106.2	23744.3	23242.6
15891.9	17.5°	15744.6	16261.3	16263.8	16758.0	16807.9	16323.7	16044.2	15592.4
10335.9	20°	10298.4	10513.1	10959.9	11309.3	11511.5	11142.1	10807.6	10498.1
6444.6	22.5°	6444.6	6819.0	7098.6	7552.8	7737.5	7468.0	7230.9	6978.8
4023.5	25°	3956.1	4223.2	4455.3	4849.7	5101.8	4972.0	4754.8	4577.6
2598.3	27.5°	2638.3	2750.6	2865.4	3137.4	3399.5	3327.1	3239.8	3132.5
1832.0	30°	1859.5	1869.5	1991.8	2144.0	2318.8	2363.7	2323.8	2268.8
1345.3	32.5°	1370.3	1410.2	1467.6	1562.5	1679.8	1787.1	1767.2	1742.2
1028.3	35°	1058.3	1118.2	1165.6	1238.0	1300.4	1402.7	1420.2	1412.7
846.1	37.5°	863.6	916.0	963.4	1005.9	1058.3	1128.2	1183.1	1185.6
698.9	40°	716.3	763.8	826.2	858.6	896.1	948.5	1015.9	1020.9
591.5	42.5°	604.0	649.0	711.4	751.3	778.7	828.7	896.1	906.0
506.7	45°	519.2	546.6	611.5	658.9	686.4	718.8	791.2	801.2
436.8	47.5°	451.8	479.2	519.2	586.6	611.5	641.5	698.9	716.3
386.9	50°	396.9	424.3	459.3	519.2	556.6	581.6	629.0	653.9
337.0	52.5°	351.9	379.4	416.8	464.3	506.7	529.1	574.1	606.5
274.6	55°	294.5	341.9	369.4	411.8	469.2	489.2	524.2	566.6
239.6	57.5°	257.1	297.0	337.0	371.9	429.3	454.3	489.2	529.1
189.7	60°	217.2	254.6	302.0	332.0	386.9	419.3	456.8	494.2
144.8	62.5°	172.2	222.1	254.6	297.0	349.4	391.9	421.8	459.3
112.3	65°	127.3	182.2	219.6	264.6	314.5	359.4	384.4	424.3
79.9	67.5°	92.4	142.3	187.2	229.6	277.1	322.0	346.9	381.9
49.9	70°	72.4	104.8	154.8	192.2	242.1	279.5	307.0	329.5
32.4	72.5°	42.4	79.9	124.8	167.2	212.2	237.1	257.1	277.1
15.0	75°	27.5	62.4	102.3	139.8	172.2	194.7	212.2	229.6
7.5	77.5°	17.5	44.9	82.4	117.3	132.3	159.7	174.7	184.7
5.0	80°	10.0	34.9	72.4	94.8	107.3	124.8	139.8	152.3
5.0	82.5°	7.5	30.0	59.9	79.9	79.9	99.8	107.3	107.3
2.5	85°	5.0	25.0	47.4	74.9	59.9	74.9	69.9	69.9
2.5	87.5°	5.0	17.5	22.5	32.4	27.5	32.4	32.4	37.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
227635.9
220350.2
210131.6
192916.9
171808.3
148705.5
126581.2
105143.2
86710.4
70511.5
57003.2
35707.5
22985.5
15480.1
10390.8
6844.0
4475.3
3070.1
2231.4
1722.2
1387.8
1168.1
1013.4
898.6
798.7
718.8
656.4
606.5
569.1
531.6
504.2
476.7
431.8
384.4
337.0
282.0
229.6
179.7
137.3
99.8
67.4
37.4
0.0

(END OF REPORT)