

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: P637158

Luminaire Tested: **IFLD-M-SA4A-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637158
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18786 lumens
Efficiency: N/A
Efficacy: 146.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

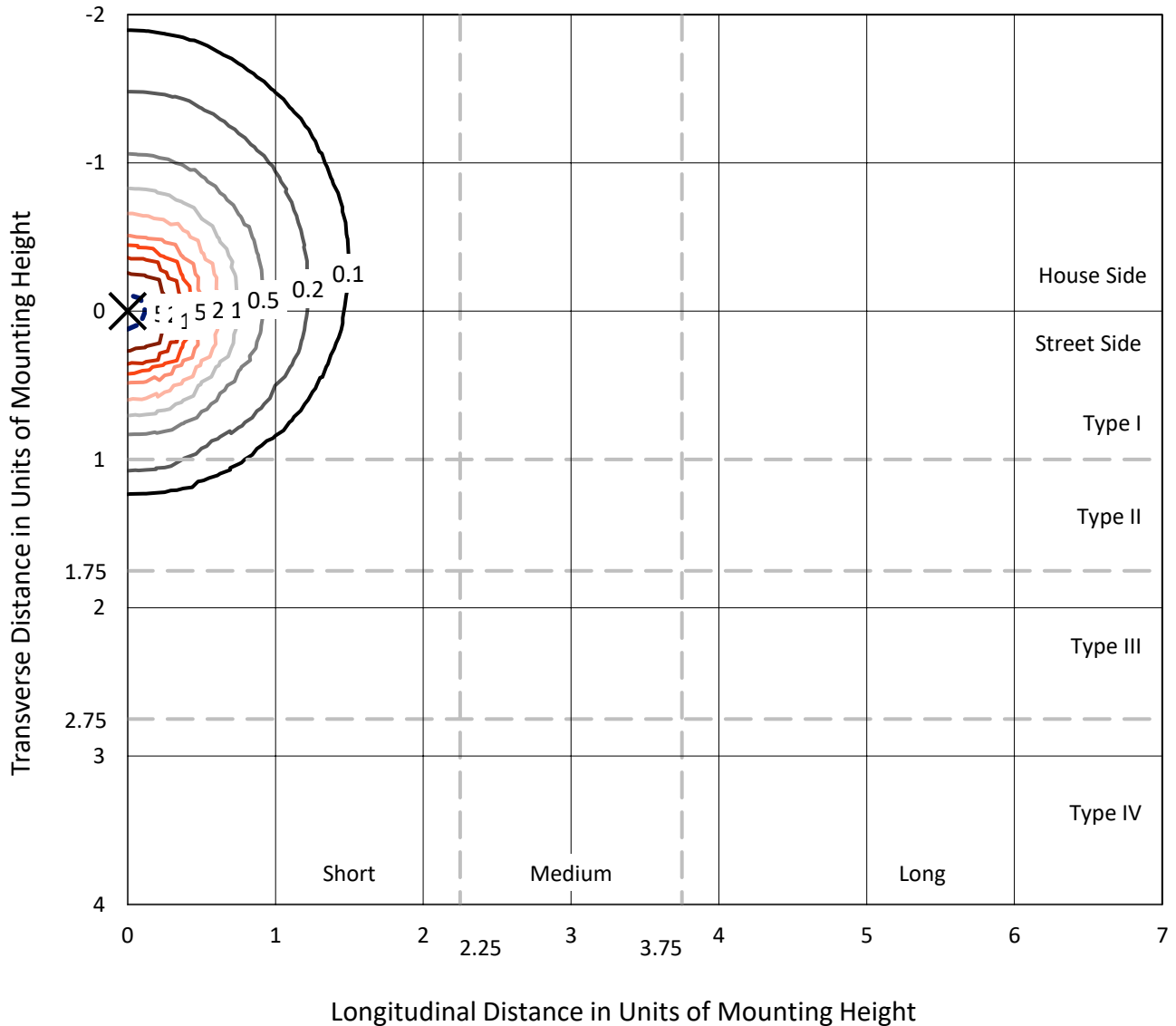
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

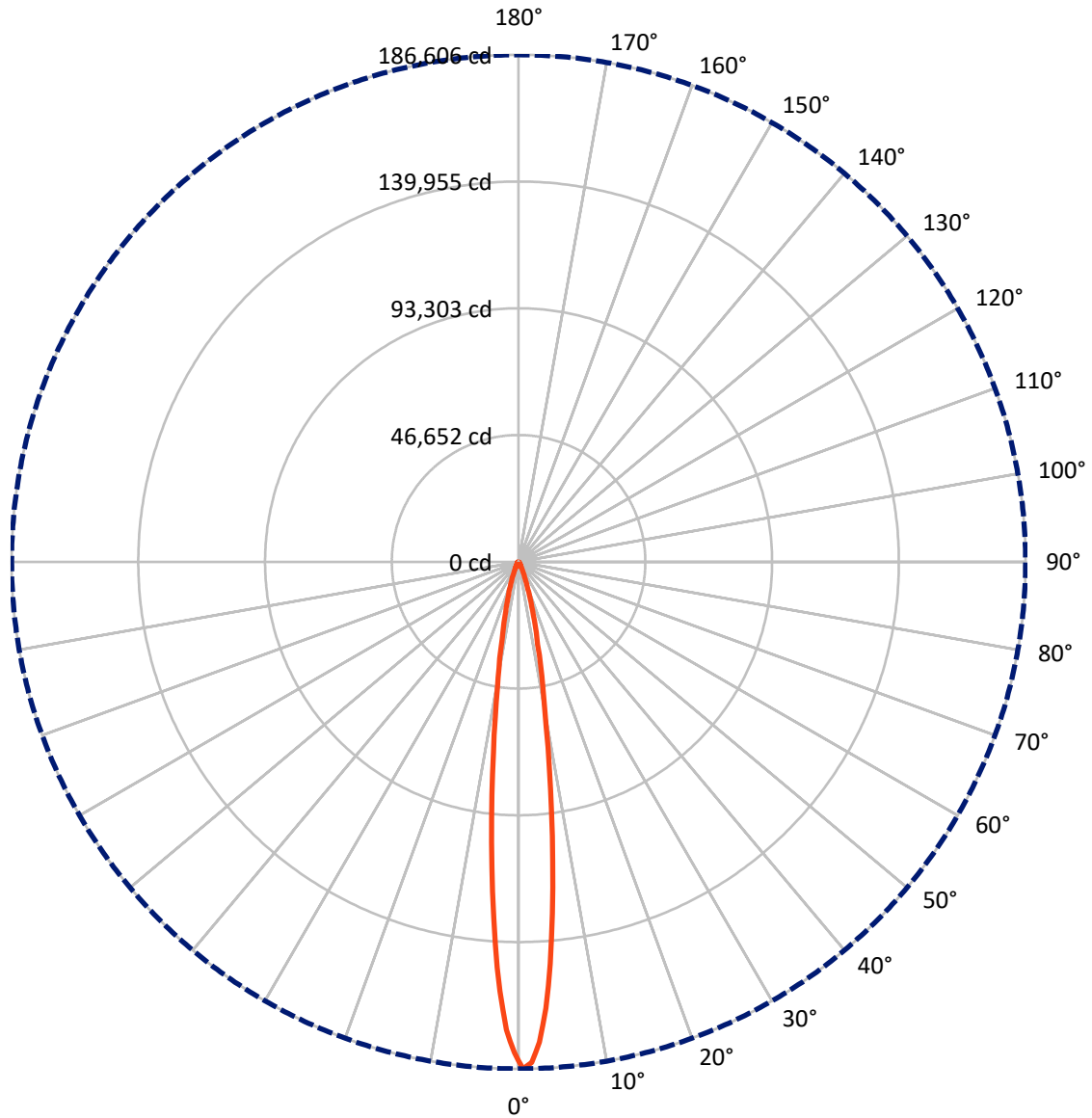
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 466.5 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	9621.9	0.0	9621.9
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	9164.2	0.0	9164.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	18786.0	0.0	18786.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9483.7	50.5
10°-20°	6071.5	32.3
20°-30°	1825.0	9.7
30°-40°	594.2	3.2
40°-50°	345.7	1.8
50°-60°	229.6	1.2
60°-70°	138.2	0.7
70°-80°	71.0	0.4
80°-90°	27.0	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°	18786.0	100.0
0°-180°	18786.0	100.0

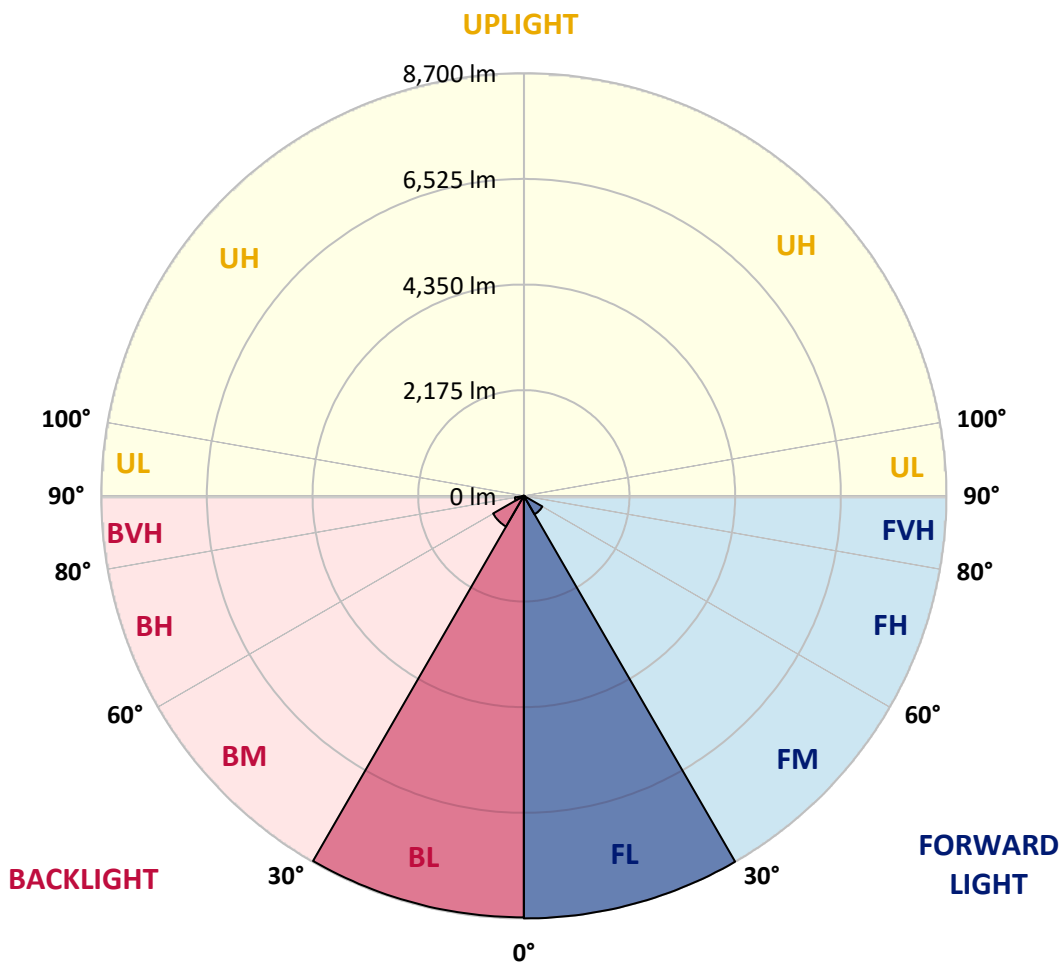


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8700.4	46.3			
FM (30°-60°)	439.0	2.3			
FH (60°-80°)	20.7	0.1			G0/660
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	8679.8	46.2	B5		
BM (30°-60°)	730.5	3.9	B1/1000		
BH (60°-80°)	188.6	1.0	B1/500		G0/660
BVH (80°-90°)	22.9	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°	186606.2	186606.2	186606.2	186606.2	186606.2	186606.2	186606.2	186606.2	186606.2	186606.2
1°	184371.8	183809.2	182356.4	183389.7	184298.2	184034.2	184015.8	183917.6	183780.5	184856.8
2°	177001.8	176637.6	174489.2	175375.1	176666.2	175725.0	176314.3	175796.6	175806.9	177091.8
3°	164577.9	164776.4	161349.1	162959.4	164753.8	162472.4	163180.4	164510.4	163117.0	162697.5
4°	148430.1	146707.3	144835.1	146472.0	146936.4	145608.5	146913.9	148542.6	146607.0	146692.9
5°	129994.7	128722.1	126506.1	127516.9	126365.0	126784.4	128740.5	129411.6	128061.2	126360.9
6°	111039.7	110135.3	107364.9	108821.7	108412.5	108175.1	110644.8	108598.7	109335.3	108306.1
7°	92362.9	90672.8	89312.2	90707.6	90797.6	90083.5	93289.8	92917.4	91577.2	91266.2
8°	76524.1	74838.1	73686.1	74725.5	75404.8	74283.6	75791.6	76781.9	75734.3	75828.4
9°	61720.5	61423.9	59821.8	61180.4	61919.0	60718.0	62387.6	62745.6	61765.6	62242.3
10°	50677.8	50332.0	49053.1	49603.6	50827.1	49394.8	50996.9	51113.6	50332.0	50555.0
12.5°	31317.6	31178.4	31143.7	31223.5	31207.1	31460.8	31870.0	31403.5	31342.1	30570.7
15°	20242.0	20448.7	20235.9	20645.1	20704.5	20943.9	20694.2	20317.8	19599.6	19243.6
17.5°	12632.6	12896.6	13260.8	13860.3	14459.8	14529.3	14197.9	13755.9	13408.1	13027.5
20°	7267.7	7396.6	7341.4	8059.6	9610.5	10032.0	9604.4	9139.9	8720.5	8335.8
22.5°	4515.7	4468.7	4554.6	4796.1	5301.4	6604.8	6254.9	5790.5	5485.6	5168.4
25°	2768.4	2819.5	2786.8	2919.8	3146.9	3699.3	3779.1	3578.6	3423.1	3259.4
27.5°	1782.2	1782.2	1796.5	1870.1	2025.6	2007.2	2432.8	2277.3	2193.4	2113.6
30°	1237.9	1242.0	1242.0	1284.9	1319.7	1258.4	1368.8	1569.4	1530.5	1469.1
32.5°	918.7	931.0	941.2	963.7	935.1	869.6	896.2	1129.4	1106.9	1084.4
35°	699.8	710.0	734.5	746.8	705.9	665.0	640.4	830.7	840.9	834.8
37.5°	509.5	515.6	560.6	607.7	560.6	523.8	509.5	638.4	687.5	681.4
40°	390.8	392.9	401.0	454.2	454.2	425.6	429.7	476.7	562.7	562.7
42.5°	335.6	335.6	343.7	335.6	337.6	368.3	378.5	384.7	476.7	476.7
45°	290.5	290.5	294.6	274.2	253.7	317.1	325.3	327.4	401.0	411.3
47.5°	243.5	243.5	251.7	225.1	214.8	251.7	274.2	280.3	345.8	354.0
50°	180.1	182.1	206.7	184.1	190.3	194.4	237.3	241.4	292.6	311.0
52.5°	120.7	120.7	124.8	143.2	165.7	159.6	192.3	206.7	233.3	257.8
55°	98.2	98.2	96.2	92.1	122.8	133.0	141.2	171.9	190.3	221.0
57.5°	67.5	71.6	65.5	75.7	79.8	100.3	106.4	135.0	145.3	186.2
60°	8.2	10.2	14.3	55.2	53.2	67.5	79.8	106.4	118.7	143.2
62.5°	2.0	2.0	4.1	10.2	36.8	45.0	63.4	73.7	85.9	110.5
65°	0.0	0.0	2.0	4.1	8.2	24.6	32.7	43.0	61.4	77.8
67.5°	0.0	0.0	2.0	4.1	4.1	10.2	16.4	26.6	32.7	57.3
70°	0.0	0.0	2.0	4.1	4.1	8.2	10.2	12.3	22.5	30.7
72.5°	0.0	0.0	2.0	4.1	6.1	8.2	10.2	10.2	10.2	20.5
75°	0.0	0.0	2.0	4.1	6.1	8.2	10.2	10.2	8.2	8.2
77.5°	0.0	0.0	2.0	4.1	8.2	10.2	12.3	10.2	6.1	6.1
80°	0.0	0.0	2.0	6.1	10.2	14.3	16.4	12.3	6.1	4.1
82.5°	0.0	0.0	4.1	8.2	12.3	16.4	22.5	18.4	8.2	4.1
85°	0.0	0.0	2.0	6.1	12.3	16.4	32.7	22.5	10.2	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.1	12.3	8.2	4.1	2.0
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°
186606.2	0°	186606.2	186606.2	186606.2	186606.2	186606.2	186606.2	186606.2	186606.2
183614.8	1°	184897.7	185026.6	184605.1	185257.8	185028.6	183686.4	183242.4	182716.5
176336.8	2°	175796.6	176453.4	176486.2	177210.5	177200.3	175635.0	175150.1	176044.2
163548.7	3°	163053.5	163818.8	163129.2	164416.2	164029.5	162130.7	161637.6	162652.5
147372.2	4°	146932.3	146787.1	146549.7	145817.2	146719.5	145424.4	144448.4	145825.4
128615.7	5°	128357.9	128034.6	127572.2	127355.3	128026.4	127197.7	125190.5	127201.8
110168.0	6°	110303.1	108911.7	108844.2	108723.5	108791.0	106470.7	106609.9	108107.6
90196.1	7°	91149.6	91405.3	90883.6	91720.4	91082.0	89510.6	88905.0	90482.5
76241.7	8°	75709.7	75386.4	74987.4	76237.6	75130.7	74099.4	73393.5	74639.6
62320.0	9°	62203.4	61644.8	61239.7	61176.3	61348.2	59412.5	59805.4	60748.6
50677.8	10°	50696.2	49779.5	50002.5	50061.9	49873.6	48605.1	48617.3	48942.7
31082.3	12.5°	30971.8	30521.6	30634.2	30695.6	31078.2	30632.1	30001.9	29547.7
19597.5	15°	19466.6	19143.3	19804.2	20248.2	20158.2	19761.2	19464.5	19053.3
13027.5	17.5°	12906.8	13330.3	13332.4	13737.5	13778.4	13381.5	13152.3	12782.0
8472.9	20°	8442.2	8618.2	8984.4	9270.9	9436.6	9133.8	8859.6	8605.9
5283.0	22.5°	5283.0	5589.9	5819.1	6191.5	6342.9	6121.9	5927.5	5720.9
3298.3	25°	3243.1	3462.0	3652.3	3975.6	4182.2	4075.8	3897.8	3752.5
2130.0	27.5°	2162.7	2254.8	2348.9	2571.9	2786.8	2727.4	2655.8	2567.9
1501.8	30°	1524.3	1532.5	1632.8	1757.6	1900.8	1937.7	1904.9	1859.9
1102.8	32.5°	1123.3	1156.0	1203.1	1280.9	1377.0	1465.0	1448.6	1428.2
843.0	35°	867.5	916.7	955.5	1014.9	1066.0	1149.9	1164.2	1158.1
693.6	37.5°	707.9	750.9	789.8	824.6	867.5	924.8	969.9	971.9
572.9	40°	587.2	626.1	677.3	703.9	734.5	777.5	832.8	836.9
484.9	42.5°	495.2	532.0	583.1	615.9	638.4	679.3	734.5	742.7
415.4	45°	425.6	448.1	501.3	540.2	562.7	589.3	648.6	656.8
358.1	47.5°	370.3	392.9	425.6	480.8	501.3	525.8	572.9	587.2
317.1	50°	325.3	347.8	376.5	425.6	456.3	476.7	515.6	536.1
276.2	52.5°	288.5	311.0	341.7	380.6	415.4	433.8	470.6	497.2
225.1	55°	241.4	280.3	302.8	337.6	384.7	401.0	429.7	464.5
196.4	57.5°	210.7	243.5	276.2	304.9	351.9	372.4	401.0	433.8
155.5	60°	178.0	208.7	247.6	272.1	317.1	343.7	374.4	405.1
118.7	62.5°	141.2	182.1	208.7	243.5	286.5	321.2	345.8	376.5
92.1	65°	104.4	149.4	180.1	216.9	257.8	294.6	315.1	347.8
65.5	67.5°	75.7	116.6	153.5	188.2	227.1	263.9	284.4	313.1
40.9	70°	59.3	85.9	126.9	157.5	198.5	229.2	251.7	270.1
26.6	72.5°	34.8	65.5	102.3	137.1	173.9	194.4	210.7	227.1
12.3	75°	22.5	51.2	83.9	114.6	141.2	159.6	173.9	188.2
6.1	77.5°	14.3	36.8	67.5	96.2	108.4	131.0	143.2	151.4
4.1	80°	8.2	28.6	59.3	77.8	88.0	102.3	114.6	124.8
4.1	82.5°	6.1	24.6	49.1	65.5	65.5	81.8	88.0	88.0
2.0	85°	4.1	20.5	38.9	61.4	49.1	61.4	57.3	57.3
2.0	87.5°	4.1	14.3	18.4	26.6	22.5	26.6	26.6	30.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
186606.2
180633.6
172256.9
158144.9
140841.1
121902.4
103765.8
86191.9
71081.4
57802.3
46728.8
29271.5
18842.5
12689.9
8517.9
5610.4
3668.7
2516.7
1829.2
1411.8
1137.6
957.6
830.7
736.6
654.8
589.3
538.1
497.2
466.5
435.8
413.3
390.8
354.0
315.1
276.2
231.2
188.2
147.3
112.5
81.8
55.2
30.7
0.0

(END OF REPORT)