

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: P637117

Luminaire Tested: **IFLD-S-SA2D-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637117
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15553.2 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

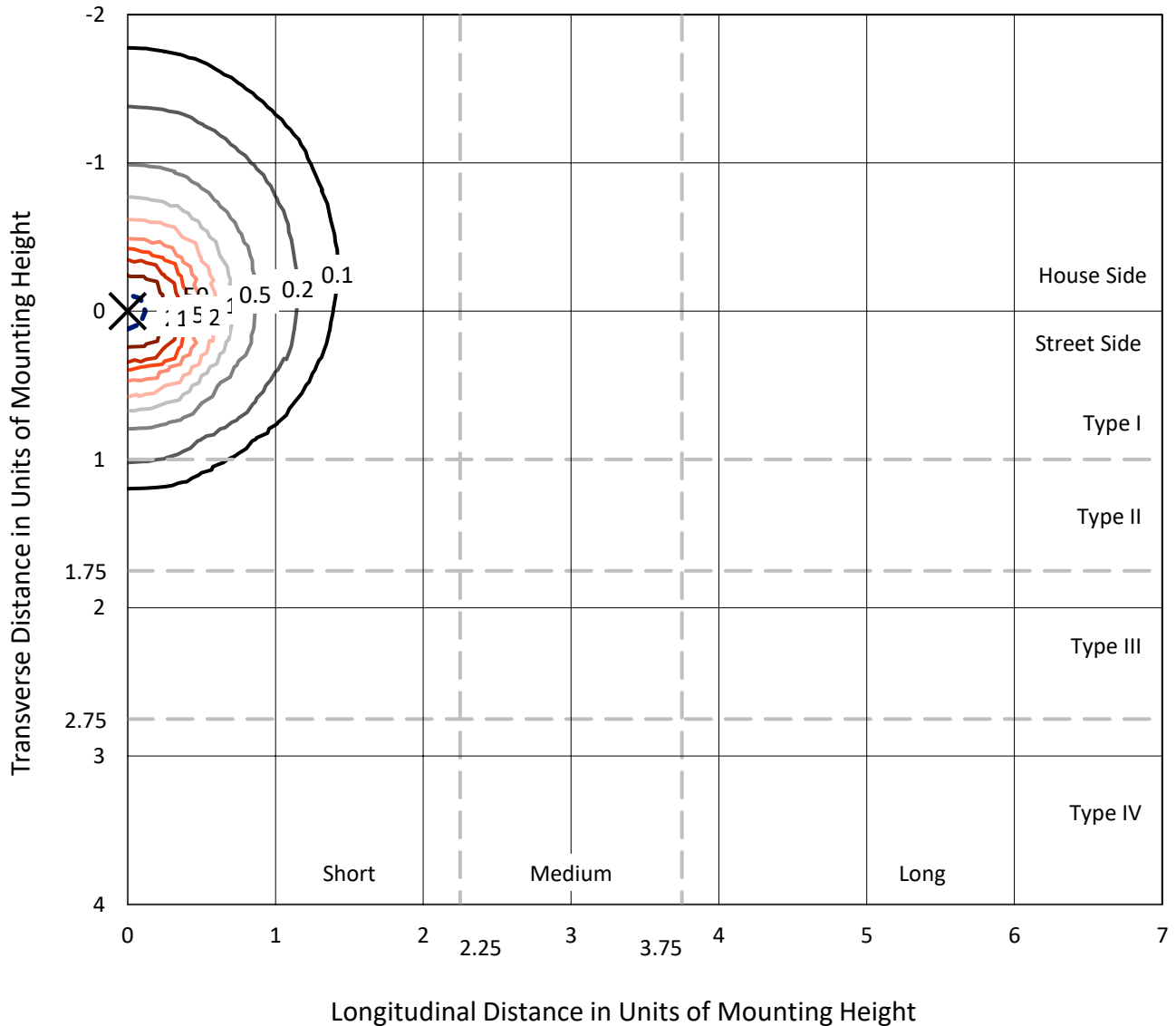
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

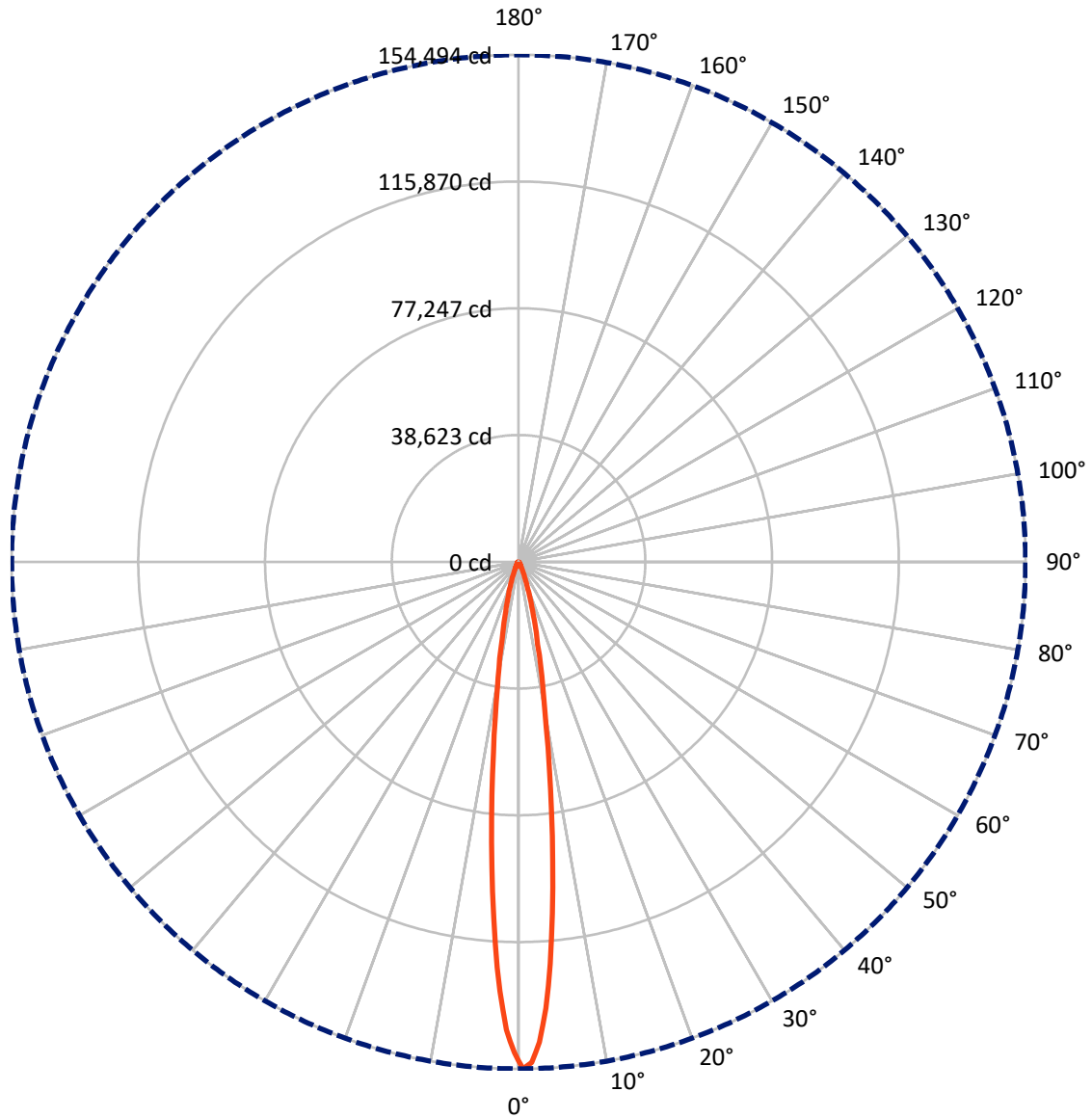
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 386.2 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	7966.1	0.0	7966.1
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	7587.2	0.0	7587.2
	% Fixture	48.8	0.0	48.8
Total	Lumens	15553.2	0.0	15553.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7851.7	50.5
10°-20°	5026.6	32.3
20°-30°	1510.9	9.7
30°-40°	492.0	3.2
40°-50°	286.2	1.8
50°-60°	190.1	1.2
60°-70°	114.4	0.7
70°-80°	58.8	0.4
80°-90°	22.4	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°	15553.2	100.0
0°-180°	15553.2	100.0

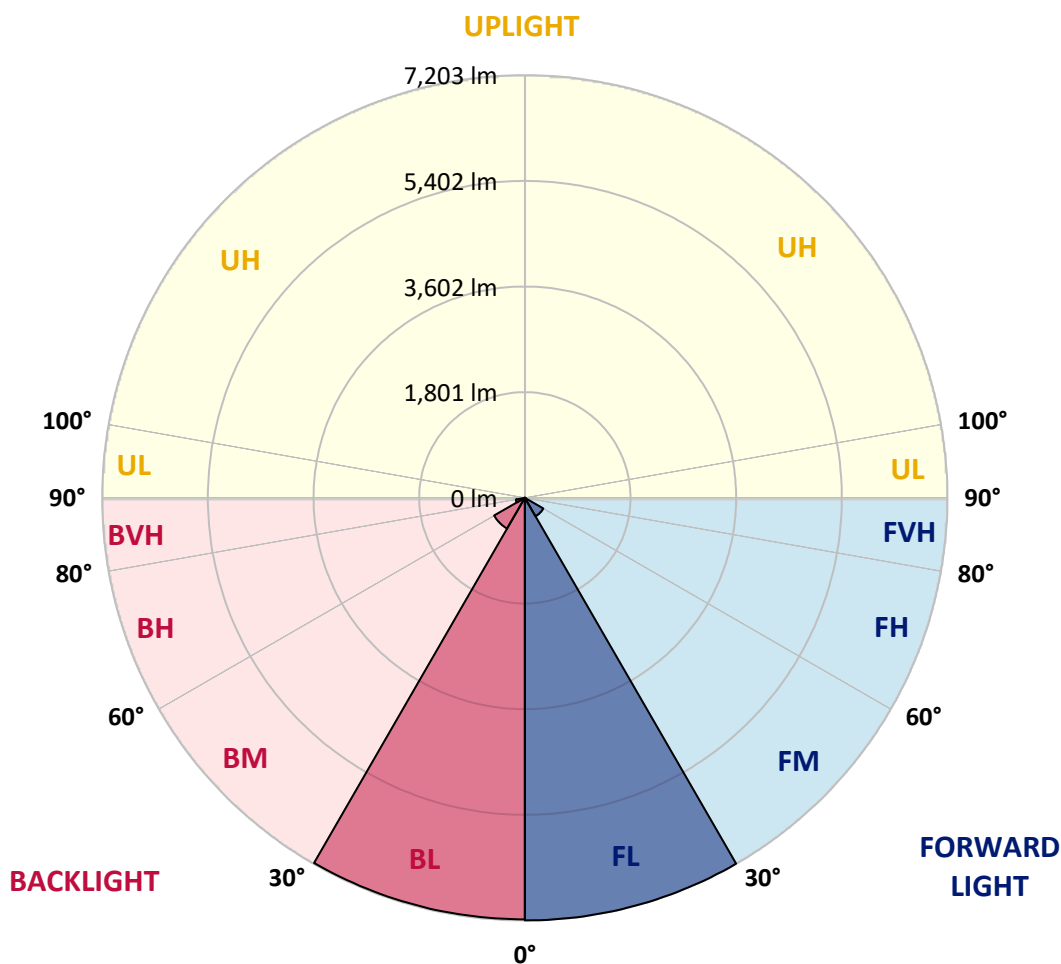


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7203.2	46.3			
FM (30°-60°)	363.5	2.3			
FH (60°-80°)	17.1	0.1			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	7186.1	46.2	B5		
BM (30°-60°)	604.8	3.9	B1/1000		
BH (60°-80°)	156.2	1.0	B1/500		G0/660
BVH (80°-90°)	19.0	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°	154493.9	154493.9	154493.9	154493.9	154493.9	154493.9	154493.9	154493.9	154493.9	154493.9
1°	152644.1	152178.2	150975.5	151831.0	152583.1	152364.6	152349.3	152268.0	152154.5	153045.5
2°	146542.3	146240.8	144462.1	145195.6	146264.5	145485.3	145973.1	145544.5	145553.0	146616.8
3°	136256.4	136420.7	133583.3	134916.4	136402.1	134513.3	135099.4	136200.5	135046.9	134699.6
4°	122887.4	121461.0	119911.0	121266.2	121650.8	120551.4	121632.1	122980.5	121378.0	121449.2
5°	107624.5	106570.8	104736.2	105573.1	104619.4	104966.6	106586.1	107141.7	106023.7	104616.0
6°	91931.3	91182.6	88888.9	90095.1	89756.3	89559.7	91604.4	89910.4	90520.2	89668.2
7°	76468.6	75069.3	73942.8	75098.1	75172.7	74581.5	77235.9	76927.6	75818.1	75560.6
8°	63355.4	61959.5	61005.8	61866.3	62428.7	61500.4	62748.9	63568.8	62701.5	62779.4
9°	51099.3	50853.7	49527.3	50652.1	51263.6	50269.3	51651.6	51948.0	51136.6	51531.3
10°	41956.8	41670.5	40611.8	41067.5	42080.5	40894.7	42221.1	42317.7	41670.5	41855.2
12.5°	25928.3	25813.1	25784.3	25850.3	25836.8	26046.8	26385.6	25999.4	25948.6	25310.0
15°	16758.7	16929.8	16753.6	17092.4	17141.5	17339.7	17133.1	16821.4	16226.8	15932.0
17.5°	10458.7	10677.2	10978.8	11475.1	11971.5	12029.0	11754.6	11388.7	11100.7	10785.7
20°	6017.1	6123.8	6078.0	6672.6	7956.7	8305.7	7951.6	7567.1	7219.8	6901.3
22.5°	3738.6	3699.7	3770.8	3970.7	4389.1	5468.2	5178.5	4794.0	4541.6	4279.0
25°	2292.0	2334.3	2307.2	2417.3	2605.4	3062.7	3128.8	2962.8	2834.1	2698.5
27.5°	1475.5	1475.5	1487.3	1548.3	1677.1	1661.8	2014.2	1885.4	1816.0	1749.9
30°	1024.9	1028.3	1028.3	1063.8	1092.6	1041.8	1133.3	1299.3	1267.1	1216.3
32.5°	760.6	770.8	779.2	797.9	774.2	719.9	742.0	935.1	916.5	897.8
35°	579.3	587.8	608.1	618.3	584.4	550.5	530.2	687.8	696.2	691.1
37.5°	421.8	426.9	464.2	503.1	464.2	433.7	421.8	528.5	569.2	564.1
40°	323.6	325.2	332.0	376.1	376.1	352.4	355.7	394.7	465.8	465.8
42.5°	277.8	277.8	284.6	277.8	279.5	304.9	313.4	318.5	394.7	394.7
45°	240.5	240.5	243.9	227.0	210.1	262.6	269.3	271.0	332.0	340.5
47.5°	201.6	201.6	208.4	186.3	177.9	208.4	227.0	232.1	286.3	293.1
50°	149.1	150.8	171.1	152.5	157.5	160.9	196.5	199.9	242.2	257.5
52.5°	99.9	99.9	103.3	118.6	137.2	132.1	159.2	171.1	193.1	213.4
55°	81.3	81.3	79.6	76.2	101.6	110.1	116.9	142.3	157.5	183.0
57.5°	55.9	59.3	54.2	62.7	66.1	83.0	88.1	111.8	120.3	154.2
60°	6.8	8.5	11.9	45.7	44.0	55.9	66.1	88.1	98.3	118.6
62.5°	1.7	1.7	3.4	8.5	30.5	37.3	52.5	61.0	71.1	91.5
65°	0.0	0.0	1.7	3.4	6.8	20.3	27.1	35.6	50.8	64.4
67.5°	0.0	0.0	1.7	3.4	3.4	8.5	13.6	22.0	27.1	47.4
70°	0.0	0.0	1.7	3.4	3.4	6.8	8.5	10.2	18.6	25.4
72.5°	0.0	0.0	1.7	3.4	5.1	6.8	8.5	8.5	8.5	16.9
75°	0.0	0.0	1.7	3.4	5.1	6.8	8.5	8.5	6.8	6.8
77.5°	0.0	0.0	1.7	3.4	6.8	8.5	10.2	8.5	5.1	5.1
80°	0.0	0.0	1.7	5.1	8.5	11.9	13.6	10.2	5.1	3.4
82.5°	0.0	0.0	3.4	6.8	10.2	13.6	18.6	15.2	6.8	3.4
85°	0.0	0.0	1.7	5.1	10.2	13.6	27.1	18.6	8.5	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	10.2	6.8	3.4	1.7
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°
154493.9	0°	154493.9	154493.9	154493.9	154493.9	154493.9	154493.9	154493.9	154493.9
152017.3	1°	153079.4	153186.1	152837.2	153377.6	153187.8	152076.6	151709.0	151273.6
145991.8	2°	145544.5	146088.3	146115.4	146715.1	146706.6	145410.7	145009.2	145749.5
135404.3	3°	134994.4	135627.9	135057.0	136122.6	135802.4	134230.4	133822.1	134662.3
122011.6	4°	121647.4	121527.1	121330.6	120724.1	121471.2	120398.9	119590.9	120730.9
106482.7	5°	106269.3	106001.7	105618.8	105439.2	105994.9	105308.8	103647.0	105312.2
91209.7	6°	91321.5	90169.6	90113.7	90013.7	90069.6	88148.7	88263.8	89503.8
74674.6	7°	75464.0	75675.8	75243.8	75936.7	75408.1	74107.1	73605.7	74911.8
63121.6	8°	62681.2	62413.5	62083.2	63118.2	62201.8	61348.0	60763.6	61795.2
51595.7	9°	51499.1	51036.6	50701.2	50648.7	50791.0	49188.5	49513.7	50294.7
41956.8	10°	41972.1	41213.2	41397.8	41446.9	41291.1	40240.8	40251.0	40520.3
25733.5	12.5°	25642.0	25269.3	25362.5	25413.3	25730.1	25360.8	24839.0	24463.0
16225.1	15°	16116.7	15849.0	16396.2	16763.8	16689.2	16360.6	16115.0	15774.5
10785.7	17.5°	10685.7	11036.4	11038.1	11373.5	11407.4	11078.7	10889.0	10582.4
7014.8	20°	6989.4	7135.1	7438.3	7675.5	7812.7	7562.0	7335.0	7124.9
4373.9	22.5°	4373.9	4628.0	4817.7	5126.0	5251.4	5068.4	4907.5	4736.4
2730.7	25°	2685.0	2866.2	3023.8	3291.4	3462.5	3374.4	3227.1	3106.8
1763.4	27.5°	1790.6	1866.8	1944.7	2129.3	2307.2	2258.1	2198.8	2126.0
1243.4	30°	1262.0	1268.8	1351.8	1455.1	1573.7	1604.2	1577.1	1539.8
913.1	32.5°	930.0	957.1	996.1	1060.4	1140.1	1212.9	1199.3	1182.4
697.9	35°	718.3	758.9	791.1	840.2	882.6	952.0	963.9	958.8
574.3	37.5°	586.1	621.7	653.9	682.7	718.3	765.7	803.0	804.6
474.3	40°	486.2	518.4	560.7	582.7	608.1	643.7	689.5	692.8
401.5	42.5°	409.9	440.4	482.8	509.9	528.5	562.4	608.1	614.9
343.9	45°	352.4	371.0	415.0	447.2	465.8	487.9	537.0	543.8
296.4	47.5°	306.6	325.2	352.4	398.1	415.0	435.4	474.3	486.2
262.6	50°	269.3	288.0	311.7	352.4	377.8	394.7	426.9	443.8
228.7	52.5°	238.9	257.5	282.9	315.1	343.9	359.1	389.6	411.6
186.3	55°	199.9	232.1	250.7	279.5	318.5	332.0	355.7	384.5
162.6	57.5°	174.5	201.6	228.7	252.4	291.4	308.3	332.0	359.1
128.7	60°	147.4	172.8	205.0	225.3	262.6	284.6	310.0	335.4
98.3	62.5°	116.9	150.8	172.8	201.6	237.2	266.0	286.3	311.7
76.2	65°	86.4	123.7	149.1	179.6	213.4	243.9	260.9	288.0
54.2	67.5°	62.7	96.6	127.0	155.8	188.0	218.5	235.5	259.2
33.9	70°	49.1	71.1	105.0	130.4	164.3	189.7	208.4	223.6
22.0	72.5°	28.8	54.2	84.7	113.5	144.0	160.9	174.5	188.0
10.2	75°	18.6	42.3	69.5	94.9	116.9	132.1	144.0	155.8
5.1	77.5°	11.9	30.5	55.9	79.6	89.8	108.4	118.6	125.4
3.4	80°	6.8	23.7	49.1	64.4	72.8	84.7	94.9	103.3
3.4	82.5°	5.1	20.3	40.7	54.2	54.2	67.8	72.8	72.8
1.7	85°	3.4	16.9	32.2	50.8	40.7	50.8	47.4	47.4
1.7	87.5°	3.4	11.9	15.2	22.0	18.6	22.0	22.0	25.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
154493.9
149549.1
142613.9
130930.5
116604.4
100924.8
85909.2
71359.5
58849.3
47855.3
38687.4
24234.3
15600.0
10506.1
7052.1
4644.9
3037.3
2083.6
1514.4
1168.9
941.9
792.8
687.8
609.8
542.1
487.9
445.5
411.6
386.2
360.8
342.2
323.6
293.1
260.9
228.7
191.4
155.8
122.0
93.2
67.8
45.7
25.4
0.0

(END OF REPORT)