

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: P637061

Luminaire Tested: **IFLD-S-SA3A-730-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637061
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12459.4 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

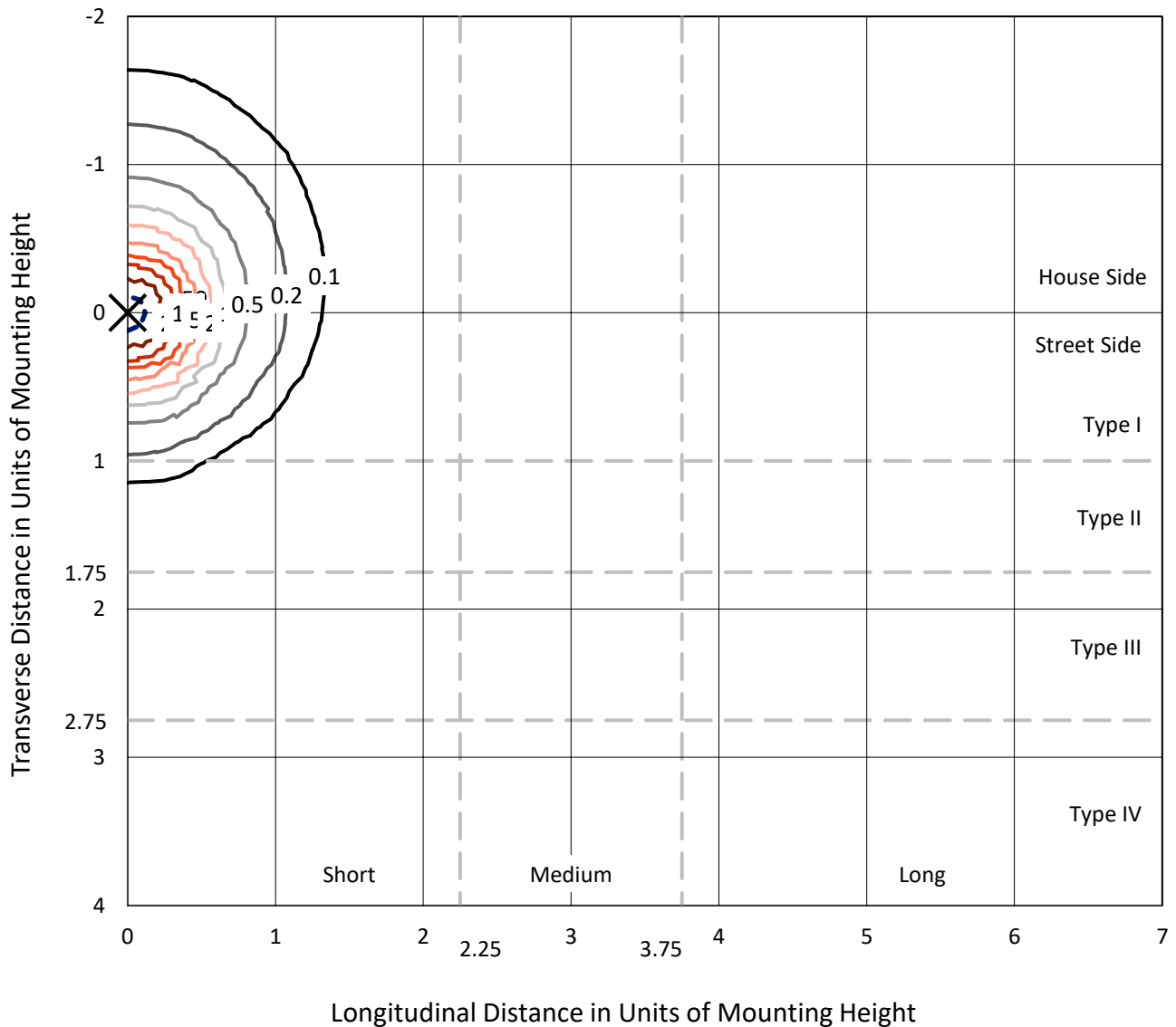
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

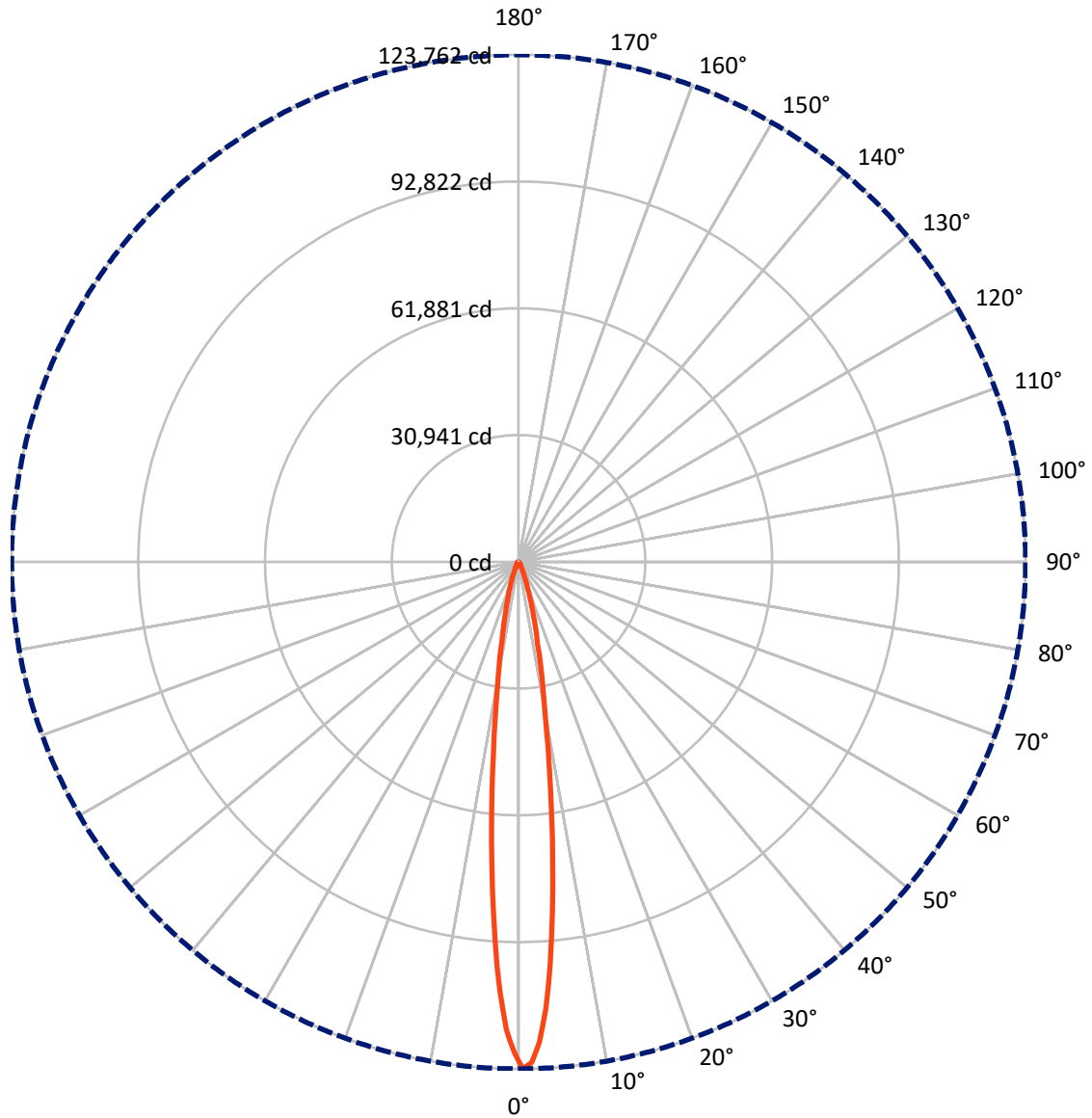
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 309.4 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	6381.5	0.0	6381.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	6077.9	0.0	6077.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	12459.4	0.0	12459.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6289.9	50.5
10°-20°	4026.7	32.3
20°-30°	1210.4	9.7
30°-40°	394.1	3.2
40°-50°	229.3	1.8
50°-60°	152.3	1.2
60°-70°	91.7	0.7
70°-80°	47.1	0.4
80°-90°	17.9	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°	12459.4	100.0
0°-180°	12459.4	100.0

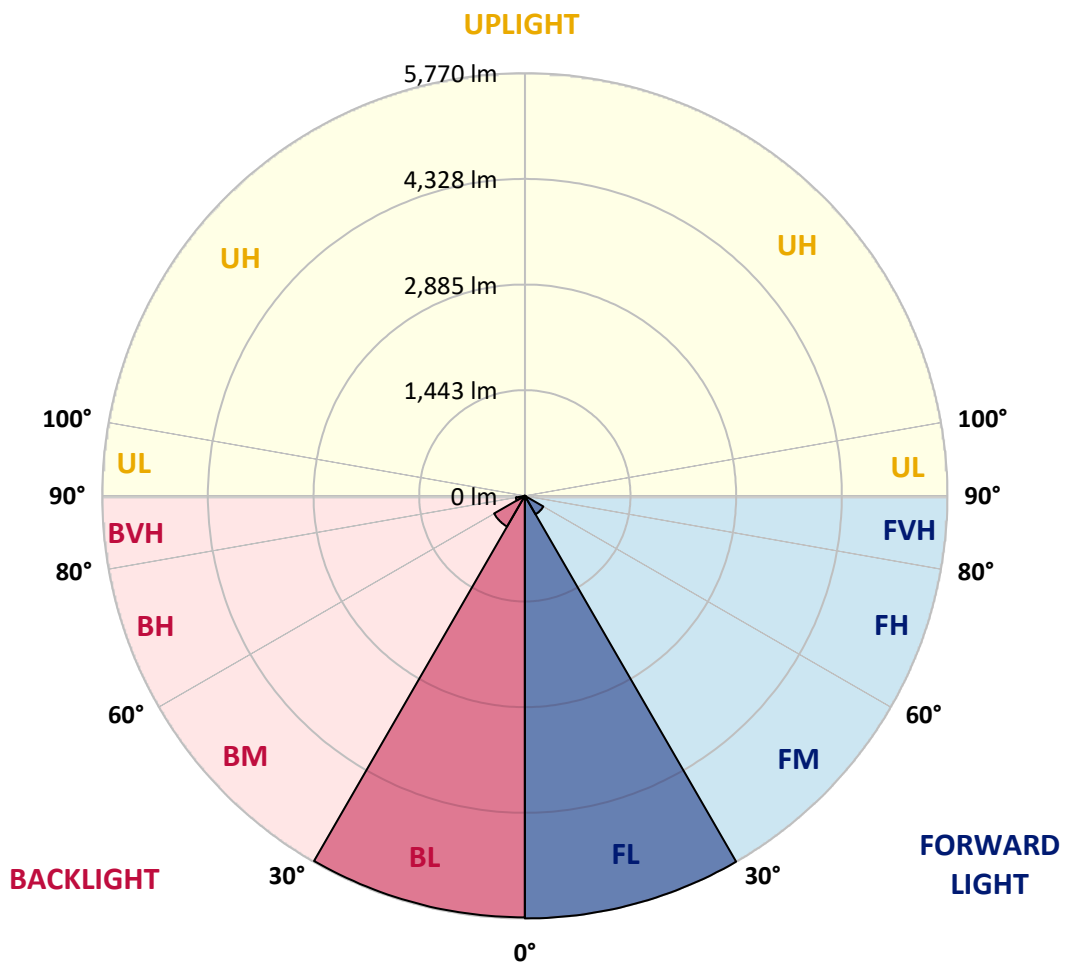


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5770.3	46.3			
FM (30°-60°)	291.2	2.3			
FH (60°-80°)	13.7	0.1			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	5756.6	46.2	B5		
BM (30°-60°)	484.5	3.9	B1/1000		
BH (60°-80°)	125.1	1.0	B1/500		G0/660
BVH (80°-90°)	15.2	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°	123762.0	123762.0	123762.0	123762.0	123762.0	123762.0	123762.0	123762.0	123762.0	123762.0
1°	122280.1	121907.0	120943.5	121628.8	122231.3	122056.2	122044.0	121978.9	121888.0	122601.8
2°	117392.1	117150.6	115725.7	116313.3	117169.6	116545.4	116936.2	116592.9	116599.6	117451.8
3°	109152.3	109283.9	107010.9	108078.9	109269.0	107755.9	108225.4	109107.5	108183.4	107905.2
4°	98442.6	97300.0	96058.4	97144.0	97452.0	96571.3	97437.1	98517.3	97233.5	97290.5
5°	86215.9	85371.8	83902.1	84572.5	83808.5	84086.7	85384.0	85829.1	84933.5	83805.8
6°	73644.4	73044.6	71207.2	72173.4	71902.0	71744.5	73382.5	72025.4	72514.0	71831.4
7°	61257.5	60136.6	59234.1	60159.6	60219.3	59745.7	61872.2	61625.2	60736.4	60530.1
8°	50752.7	49634.5	48870.5	49559.9	50010.4	49266.8	50266.9	50923.7	50228.9	50291.3
9°	40934.7	40737.9	39675.3	40576.4	41066.3	40269.7	41377.0	41614.5	40964.5	41280.7
10°	33610.8	33381.5	32533.3	32898.4	33709.9	32759.9	33822.5	33899.8	33381.5	33529.4
12.5°	20770.6	20678.3	20655.3	20708.2	20697.3	20865.6	21137.0	20827.6	20786.9	20275.3
15°	13425.0	13562.1	13421.0	13692.4	13731.7	13890.5	13724.9	13475.3	12998.9	12762.8
17.5°	8378.3	8553.3	8794.9	9192.5	9590.1	9636.2	9416.4	9123.3	8892.6	8640.2
20°	4820.2	4905.6	4869.0	5345.3	6373.9	6653.5	6369.9	6061.8	5783.6	5528.5
22.5°	2995.0	2963.7	3020.7	3180.9	3516.1	4380.5	4148.4	3840.4	3638.2	3427.8
25°	1836.1	1870.0	1848.3	1936.5	2087.1	2453.5	2506.4	2373.4	2270.3	2161.7
27.5°	1182.0	1182.0	1191.5	1240.3	1343.5	1331.2	1613.5	1510.4	1454.7	1401.8
30°	821.0	823.7	823.7	852.2	875.3	834.6	907.8	1040.8	1015.1	974.3
32.5°	609.3	617.4	624.2	639.2	620.2	576.7	594.4	749.1	734.2	719.2
35°	464.1	470.9	487.2	495.3	468.2	441.0	424.7	551.0	557.7	553.7
37.5°	337.9	342.0	371.8	403.0	371.8	347.4	337.9	423.4	456.0	451.9
40°	259.2	260.5	266.0	301.3	301.3	282.3	285.0	316.2	373.2	373.2
42.5°	222.6	222.6	228.0	222.6	223.9	244.3	251.0	255.1	316.2	316.2
45°	192.7	192.7	195.4	181.8	168.3	210.3	215.8	217.1	266.0	272.8
47.5°	161.5	161.5	166.9	149.3	142.5	166.9	181.8	185.9	229.3	234.8
50°	119.4	120.8	137.1	122.1	126.2	128.9	157.4	160.1	194.1	206.3
52.5°	80.1	80.1	82.8	95.0	109.9	105.8	127.6	137.1	154.7	171.0
55°	65.1	65.1	63.8	61.1	81.4	88.2	93.6	114.0	126.2	146.6
57.5°	44.8	47.5	43.4	50.2	52.9	66.5	70.6	89.6	96.3	123.5
60°	5.4	6.8	9.5	36.6	35.3	44.8	52.9	70.6	78.7	95.0
62.5°	1.4	1.4	2.7	6.8	24.4	29.9	42.1	48.9	57.0	73.3
65°	0.0	0.0	1.4	2.7	5.4	16.3	21.7	28.5	40.7	51.6
67.5°	0.0	0.0	1.4	2.7	2.7	6.8	10.9	17.6	21.7	38.0
70°	0.0	0.0	1.4	2.7	2.7	5.4	6.8	8.1	14.9	20.4
72.5°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	6.8	6.8	13.6
75°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	6.8	5.4	5.4
77.5°	0.0	0.0	1.4	2.7	5.4	6.8	8.1	6.8	4.1	4.1
80°	0.0	0.0	1.4	4.1	6.8	9.5	10.9	8.1	4.1	2.7
82.5°	0.0	0.0	2.7	5.4	8.1	10.9	14.9	12.2	5.4	2.7
85°	0.0	0.0	1.4	4.1	8.1	10.9	21.7	14.9	6.8	1.4
87.5°	0.0	0.0	0.0	1.4	1.4	2.7	8.1	5.4	2.7	1.4
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°
123762.0	0°	123762.0	123762.0	123762.0	123762.0	123762.0	123762.0	123762.0	123762.0
121778.0	1°	122628.9	122714.4	122434.8	122867.7	122715.7	121825.5	121531.1	121182.3
116951.1	2°	116592.9	117028.5	117050.2	117530.6	117523.8	116485.6	116164.0	116757.1
108469.7	3°	108141.3	108648.8	108191.5	109045.1	108788.6	107529.3	107202.2	107875.3
97741.1	4°	97449.3	97353.0	97195.5	96709.7	97308.2	96449.2	95801.9	96715.2
85301.2	5°	85130.2	84915.8	84609.1	84465.3	84910.4	84360.8	83029.6	84363.5
73066.3	6°	73155.8	72233.1	72188.3	72108.2	72153.0	70614.1	70706.4	71699.8
59820.4	7°	60452.7	60622.4	60276.3	60831.3	60408.0	59365.8	58964.1	60010.3
50565.5	8°	50212.6	49998.2	49733.6	50562.7	49828.6	49144.7	48676.5	49502.9
41332.3	9°	41254.9	40884.4	40615.8	40573.7	40687.7	39403.9	39664.5	40290.1
33610.8	10°	33623.0	33015.1	33163.0	33202.3	33077.5	32236.1	32244.3	32460.0
20614.6	12.5°	20541.3	20242.7	20317.4	20358.1	20611.8	20316.0	19898.1	19596.8
12997.6	15°	12910.7	12696.3	13134.6	13429.1	13369.4	13106.1	12909.4	12636.6
8640.2	17.5°	8560.1	8841.0	8842.4	9111.1	9138.2	8874.9	8723.0	8477.3
5619.4	20°	5599.1	5715.8	5958.7	6148.7	6258.6	6057.8	5875.9	5707.6
3503.8	22.5°	3503.8	3707.4	3859.4	4106.4	4206.8	4060.2	3931.3	3794.2
2187.5	25°	2150.9	2296.1	2422.3	2636.7	2773.8	2703.2	2585.1	2488.8
1412.7	27.5°	1434.4	1495.4	1557.9	1705.8	1848.3	1808.9	1761.4	1703.1
996.1	30°	1011.0	1016.4	1082.9	1165.7	1260.7	1285.1	1263.4	1233.5
731.4	32.5°	745.0	766.7	797.9	849.5	913.3	971.6	960.8	947.2
559.1	35°	575.4	607.9	633.7	673.1	707.0	762.6	772.1	768.1
460.0	37.5°	469.5	498.0	523.8	546.9	575.4	613.4	643.2	644.6
380.0	40°	389.5	415.2	449.2	466.8	487.2	515.7	552.3	555.0
321.6	42.5°	328.4	352.8	386.8	408.5	423.4	450.5	487.2	492.6
275.5	45°	282.3	297.2	332.5	358.3	373.2	390.8	430.2	435.6
237.5	47.5°	245.6	260.5	282.3	318.9	332.5	348.8	380.0	389.5
210.3	50°	215.8	230.7	249.7	282.3	302.6	316.2	342.0	355.5
183.2	52.5°	191.3	206.3	226.6	252.4	275.5	287.7	312.1	329.8
149.3	55°	160.1	185.9	200.8	223.9	255.1	266.0	285.0	308.0
130.3	57.5°	139.8	161.5	183.2	202.2	233.4	247.0	266.0	287.7
103.1	60°	118.1	138.4	164.2	180.5	210.3	228.0	248.3	268.7
78.7	62.5°	93.6	120.8	138.4	161.5	190.0	213.1	229.3	249.7
61.1	65°	69.2	99.1	119.4	143.8	171.0	195.4	209.0	230.7
43.4	67.5°	50.2	77.4	101.8	124.8	150.6	175.1	188.6	207.6
27.1	70°	39.4	57.0	84.1	104.5	131.6	152.0	166.9	179.1
17.6	72.5°	23.1	43.4	67.9	90.9	115.3	128.9	139.8	150.6
8.1	75°	14.9	33.9	55.6	76.0	93.6	105.8	115.3	124.8
4.1	77.5°	9.5	24.4	44.8	63.8	71.9	86.8	95.0	100.4
2.7	80°	5.4	19.0	39.4	51.6	58.4	67.9	76.0	82.8
2.7	82.5°	4.1	16.3	32.6	43.4	43.4	54.3	58.4	58.4
1.4	85°	2.7	13.6	25.8	40.7	32.6	40.7	38.0	38.0
1.4	87.5°	2.7	9.5	12.2	17.6	14.9	17.6	17.6	20.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
123762.0
119800.9
114245.2
104885.8
93409.4
80848.8
68820.2
57164.7
47143.0
38335.9
30991.7
19413.6
12496.8
8416.3
5649.3
3721.0
2433.1
1669.1
1213.2
936.3
754.5
635.1
551.0
488.5
434.2
390.8
356.9
329.8
309.4
289.0
274.1
259.2
234.8
209.0
183.2
153.3
124.8
97.7
74.6
54.3
36.6
20.4
0.0

(END OF REPORT)