

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: P637149

Luminaire Tested: **IFLD-S-SA3B-750-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637149
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17309.5 lumens
Efficiency: N/A
Efficacy: 141.4 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

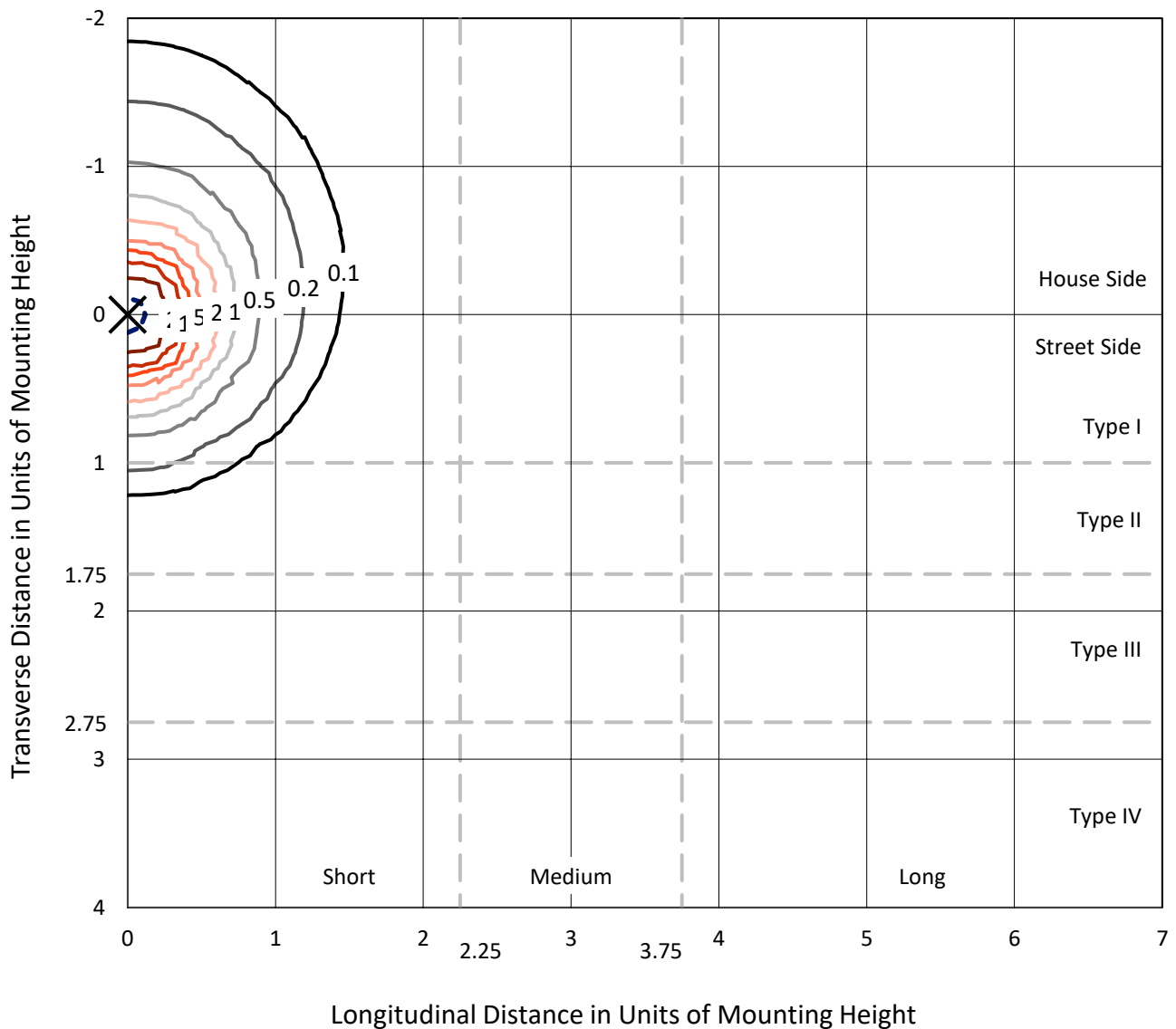
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

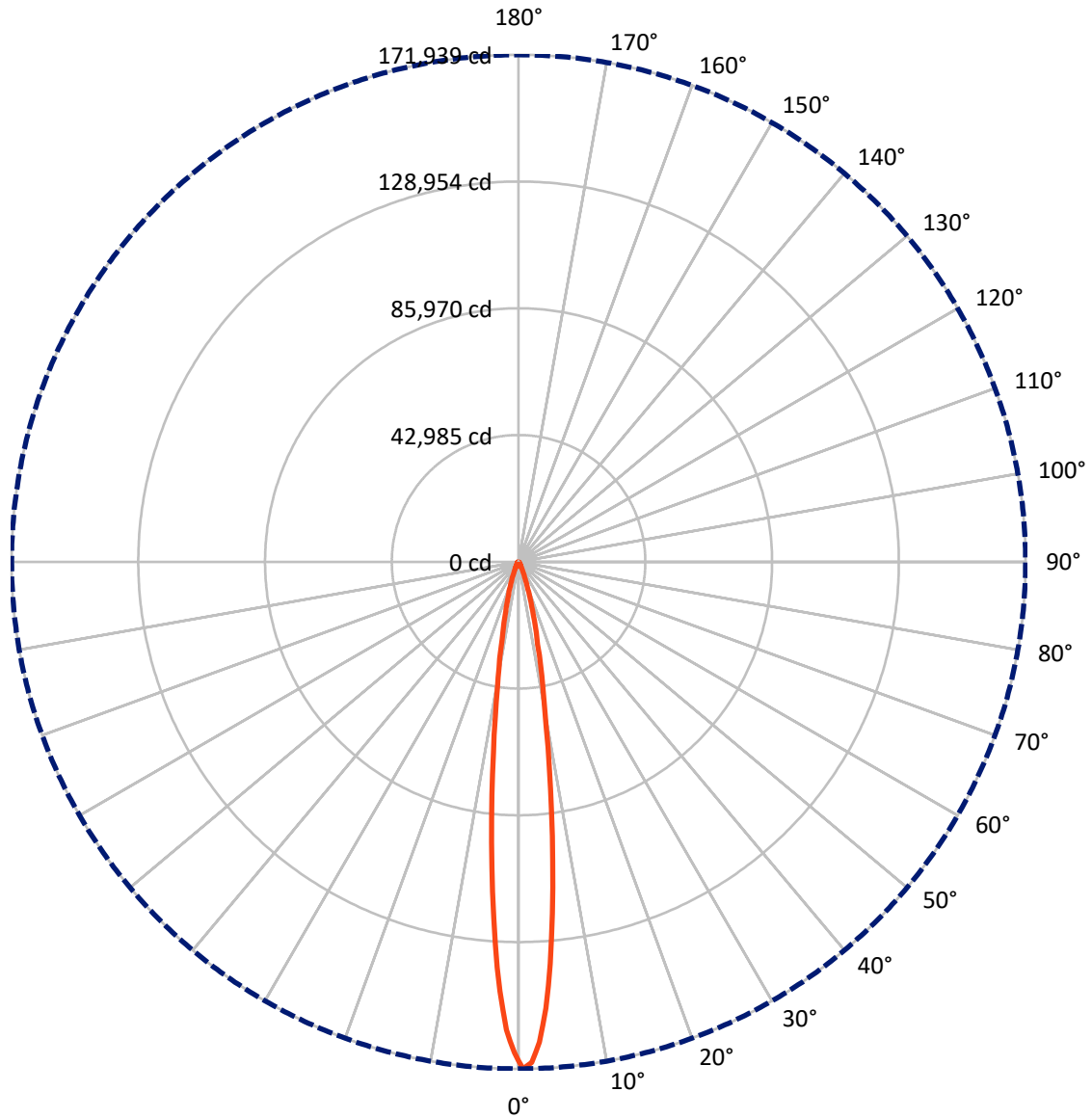
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 429.8 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	8865.6	0.0	8865.6
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	8443.9	0.0	8443.9
	% Fixture	48.8	0.0	48.8
Total	Lumens	17309.5	0.0	17309.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8738.3	50.5
10°-20°	5594.3	32.3
20°-30°	1681.5	9.7
30°-40°	547.5	3.2
40°-50°	318.6	1.8
50°-60°	211.6	1.2
60°-70°	127.4	0.7
70°-80°	65.5	0.4
80°-90°	24.9	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°	17309.5	100.0
0°-180°	17309.5	100.0

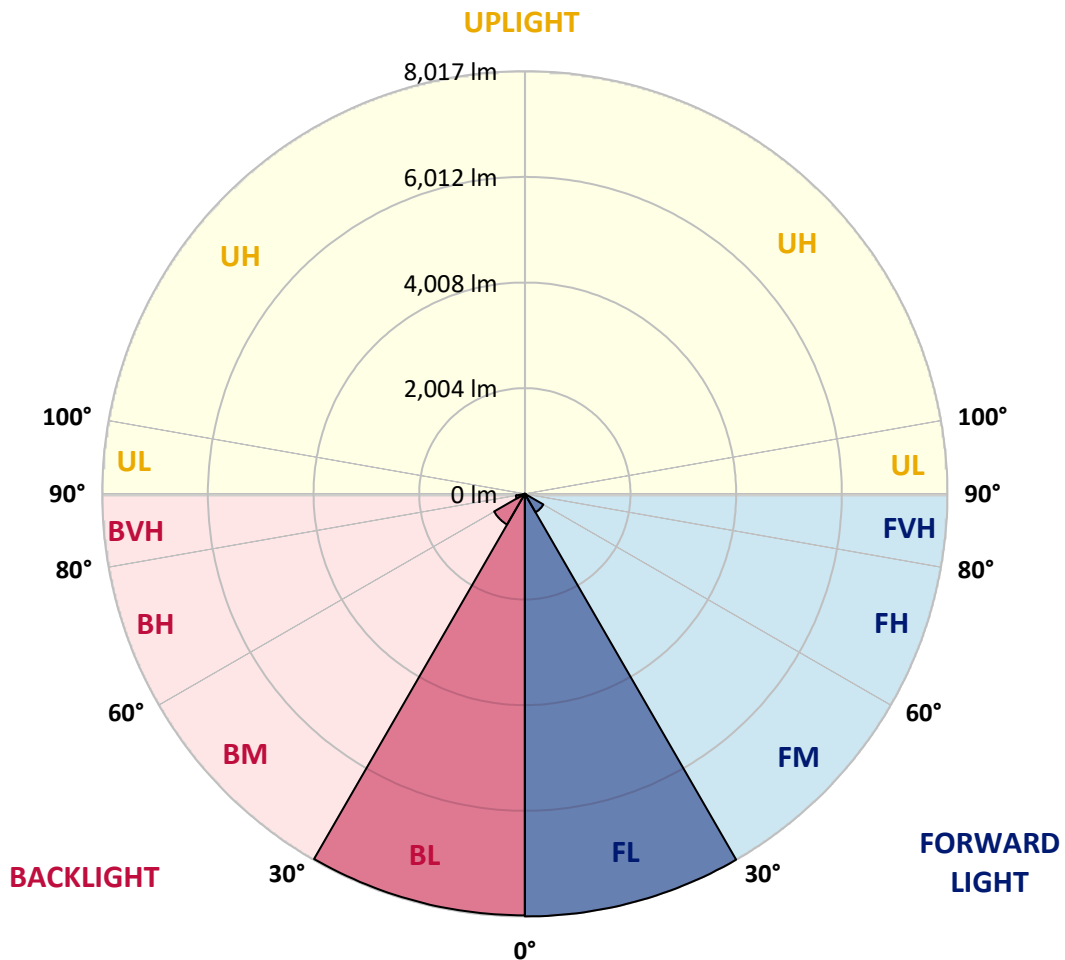


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8016.6	46.3			
FM (30°-60°)	404.5	2.3			
FH (60°-80°)	19.0	0.1			G0/660
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	7997.6	46.2	B5		
BM (30°-60°)	673.1	3.9	B1/1000		
BH (60°-80°)	173.8	1.0	B1/500		G0/660
BVH (80°-90°)	21.1	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°	171939.3	171939.3	171939.3	171939.3	171939.3	171939.3	171939.3	171939.3	171939.3	171939.3
1°	169880.5	169362.1	168023.5	168975.6	169812.7	169569.5	169552.5	169462.0	169335.7	170327.3
2°	163089.8	162754.2	160774.6	161591.0	162780.6	161913.3	162456.3	161979.3	161988.8	163172.7
3°	151642.3	151825.2	148667.4	150151.1	151804.5	149702.4	150354.7	151580.1	150296.3	149909.8
4°	136763.7	135176.3	133451.3	134959.5	135387.5	134163.9	135366.7	136867.4	135084.0	135163.1
5°	119777.4	118604.7	116563.0	117494.3	116432.9	116819.4	118621.7	119240.1	117995.8	116429.1
6°	102312.2	101478.9	98926.2	100268.5	99891.5	99672.8	101948.3	100063.0	100741.7	99793.4
7°	85103.3	83546.1	82292.4	83578.2	83661.1	83003.1	85957.4	85614.3	84379.4	84092.8
8°	70509.4	68955.9	67894.5	68852.2	69478.2	68445.0	69834.5	70746.9	69781.7	69868.4
9°	56869.4	56596.1	55119.9	56371.7	57052.3	55945.6	57484.0	57813.9	56910.9	57350.2
10°	46694.6	46376.0	45197.7	45704.8	46832.2	45512.5	46988.7	47096.1	46376.0	46581.5
12.5°	28856.1	28727.9	28695.8	28769.3	28754.3	28988.0	29365.1	28935.2	28878.7	28167.9
15°	18651.1	18841.5	18645.4	19022.5	19077.1	19297.7	19067.7	18720.8	18059.1	17731.0
17.5°	11639.7	11882.9	12218.5	12770.9	13323.3	13387.4	13081.9	12674.7	12354.2	12003.6
20°	6696.5	6815.3	6764.4	7426.1	8855.2	9243.5	8849.5	8421.5	8035.1	7680.6
22.5°	4160.8	4117.4	4196.6	4419.1	4884.8	6085.7	5763.3	5335.3	5054.4	4762.2
25°	2550.8	2597.9	2567.7	2690.3	2899.6	3408.6	3482.1	3297.4	3154.1	3003.2
27.5°	1642.1	1642.1	1655.3	1723.1	1866.4	1849.5	2241.6	2098.3	2021.0	1947.5
30°	1140.6	1144.4	1144.4	1184.0	1216.0	1159.4	1261.3	1446.0	1410.2	1353.6
32.5°	846.5	857.8	867.2	888.0	861.6	801.2	825.8	1040.7	1019.9	999.2
35°	644.8	654.2	676.8	688.1	650.4	612.7	590.1	765.4	774.8	769.2
37.5°	469.4	475.1	516.6	559.9	516.6	482.6	469.4	588.2	633.5	627.8
40°	360.1	362.0	369.5	418.5	418.5	392.1	395.9	439.3	518.5	518.5
42.5°	309.2	309.2	316.7	309.2	311.1	339.4	348.8	354.4	439.3	439.3
45°	267.7	267.7	271.5	252.6	233.8	292.2	299.8	301.6	369.5	378.9
47.5°	224.3	224.3	231.9	207.4	198.0	231.9	252.6	258.3	318.6	326.2
50°	165.9	167.8	190.4	169.7	175.3	179.1	218.7	222.5	269.6	286.6
52.5°	111.2	111.2	115.0	132.0	152.7	147.1	177.2	190.4	214.9	237.5
55°	90.5	90.5	88.6	84.8	113.1	122.5	130.1	158.4	175.3	203.6
57.5°	62.2	66.0	60.3	69.8	73.5	92.4	98.0	124.4	133.9	171.6
60°	7.5	9.4	13.2	50.9	49.0	62.2	73.5	98.0	109.3	132.0
62.5°	1.9	1.9	3.8	9.4	33.9	41.5	58.4	67.9	79.2	101.8
65°	0.0	0.0	1.9	3.8	7.5	22.6	30.2	39.6	56.6	71.6
67.5°	0.0	0.0	1.9	3.8	3.8	9.4	15.1	24.5	30.2	52.8
70°	0.0	0.0	1.9	3.8	3.8	7.5	9.4	11.3	20.7	28.3
72.5°	0.0	0.0	1.9	3.8	5.7	7.5	9.4	9.4	9.4	18.9
75°	0.0	0.0	1.9	3.8	5.7	7.5	9.4	9.4	7.5	7.5
77.5°	0.0	0.0	1.9	3.8	7.5	9.4	11.3	9.4	5.7	5.7
80°	0.0	0.0	1.9	5.7	9.4	13.2	15.1	11.3	5.7	3.8
82.5°	0.0	0.0	3.8	7.5	11.3	15.1	20.7	17.0	7.5	3.8
85°	0.0	0.0	1.9	5.7	11.3	15.1	30.2	20.7	9.4	1.9
87.5°	0.0	0.0	0.0	1.9	1.9	3.8	11.3	7.5	3.8	1.9
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°
171939.3	0°	171939.3	171939.3	171939.3	171939.3	171939.3	171939.3	171939.3	171939.3
169183.0	1°	170365.0	170483.8	170095.5	170696.9	170485.7	169249.0	168839.9	168355.3
162477.0	2°	161979.3	162584.5	162614.7	163282.1	163272.6	161830.4	161383.6	162207.4
150694.1	3°	150237.8	150942.9	150307.6	151493.4	151137.1	149387.6	148933.2	149868.3
135789.0	4°	135383.7	135249.9	135031.2	134356.2	135187.6	133994.3	133095.0	134363.8
118506.7	5°	118269.2	117971.3	117545.2	117345.4	117963.7	117200.2	115350.7	117204.0
101509.0	6°	101633.5	100351.5	100289.3	100178.0	100240.2	98102.3	98230.5	99610.6
83106.8	7°	83985.4	84221.0	83740.3	84511.4	83923.2	82475.3	81917.2	83370.8
70249.2	8°	69759.1	69461.2	69093.6	70245.5	69225.5	68275.3	67624.9	68773.1
57421.8	9°	57314.3	56799.7	56426.4	56367.9	56526.3	54742.8	55104.8	55973.9
46694.6	10°	46711.5	45866.9	46072.4	46127.1	45953.7	44784.8	44796.1	45095.9
28639.3	12.5°	28537.5	28122.7	28226.4	28282.9	28635.5	28224.5	27643.8	27225.3
18057.2	15°	17936.5	17638.7	18247.6	18656.7	18573.8	18208.0	17934.7	17555.7
12003.6	17.5°	11892.3	12282.6	12284.5	12657.8	12695.5	12329.7	12118.6	11777.3
7806.9	20°	7778.7	7940.8	8278.3	8542.2	8694.9	8415.9	8163.3	7929.5
4867.8	22.5°	4867.8	5150.6	5361.7	5704.9	5844.4	5640.8	5461.7	5271.2
3039.1	25°	2988.2	3189.9	3365.2	3663.1	3853.5	3755.5	3591.5	3457.6
1962.6	27.5°	1992.7	2077.6	2164.3	2369.8	2567.7	2513.1	2447.1	2366.0
1383.8	30°	1404.5	1412.1	1504.5	1619.5	1751.4	1785.4	1755.2	1713.7
1016.2	32.5°	1035.0	1065.2	1108.5	1180.2	1268.8	1349.9	1334.8	1315.9
776.7	35°	799.4	844.6	880.4	935.1	982.2	1059.5	1072.7	1067.1
639.1	37.5°	652.3	691.9	727.7	759.8	799.4	852.1	893.6	895.5
527.9	40°	541.1	576.9	624.0	648.5	676.8	716.4	767.3	771.1
446.8	42.5°	456.2	490.2	537.3	567.5	588.2	625.9	676.8	684.4
382.7	45°	392.1	412.9	461.9	497.7	518.5	543.0	597.6	605.2
329.9	47.5°	341.2	362.0	392.1	443.0	461.9	484.5	527.9	541.1
292.2	50°	299.8	320.5	346.9	392.1	420.4	439.3	475.1	493.9
254.5	52.5°	265.8	286.6	314.8	350.7	382.7	399.7	433.6	458.1
207.4	55°	222.5	258.3	279.0	311.1	354.4	369.5	395.9	428.0
181.0	57.5°	194.2	224.3	254.5	280.9	324.3	343.1	369.5	399.7
143.3	60°	164.0	192.3	228.1	250.7	292.2	316.7	345.0	373.3
109.3	62.5°	130.1	167.8	192.3	224.3	263.9	296.0	318.6	346.9
84.8	65°	96.1	137.6	165.9	199.8	237.5	271.5	290.3	320.5
60.3	67.5°	69.8	107.5	141.4	173.4	209.3	243.2	262.1	288.4
37.7	70°	54.7	79.2	116.9	145.2	182.9	211.2	231.9	248.9
24.5	72.5°	32.0	60.3	94.3	126.3	160.2	179.1	194.2	209.3
11.3	75°	20.7	47.1	77.3	105.6	130.1	147.1	160.2	173.4
5.7	77.5°	13.2	33.9	62.2	88.6	99.9	120.7	132.0	139.5
3.8	80°	7.5	26.4	54.7	71.6	81.1	94.3	105.6	115.0
3.8	82.5°	5.7	22.6	45.2	60.3	60.3	75.4	81.1	81.1
1.9	85°	3.8	18.9	35.8	56.6	45.2	56.6	52.8	52.8
1.9	87.5°	3.8	13.2	17.0	24.5	20.7	24.5	24.5	28.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
171939.3
166436.1
158717.8
145715.0
129771.2
112321.1
95610.0
79417.3
65494.6
53259.1
43056.0
26970.8
17361.5
11692.5
7848.4
5169.4
3380.3
2318.9
1685.4
1300.8
1048.2
882.3
765.4
678.7
603.3
543.0
495.8
458.1
429.8
401.6
380.8
360.1
326.2
290.3
254.5
213.0
173.4
135.7
103.7
75.4
50.9
28.3
0.0

(END OF REPORT)