

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: P636786

Luminaire Tested: **IFLD-L-SA7A-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636786
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15986.4 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

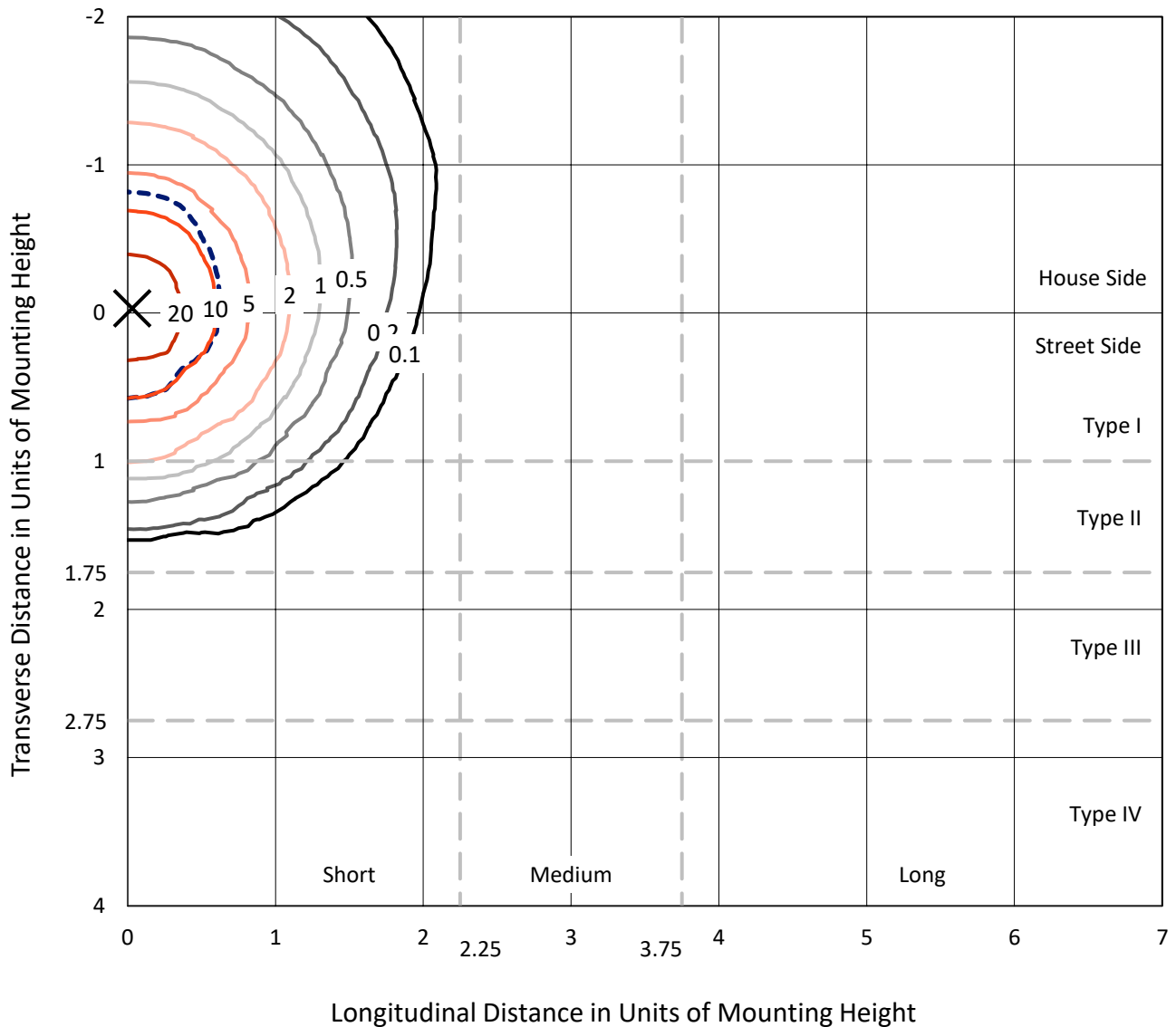
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

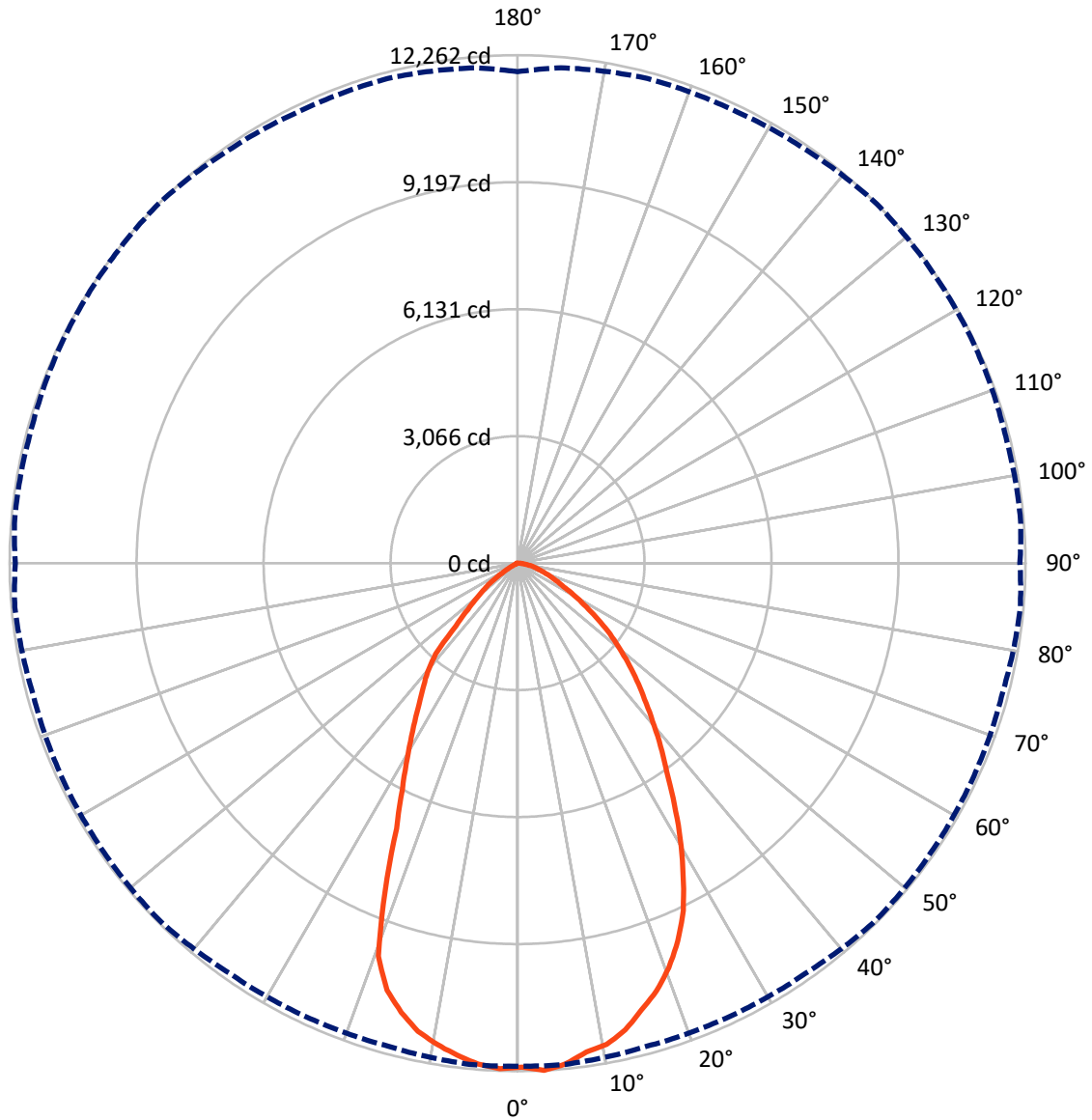
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 30.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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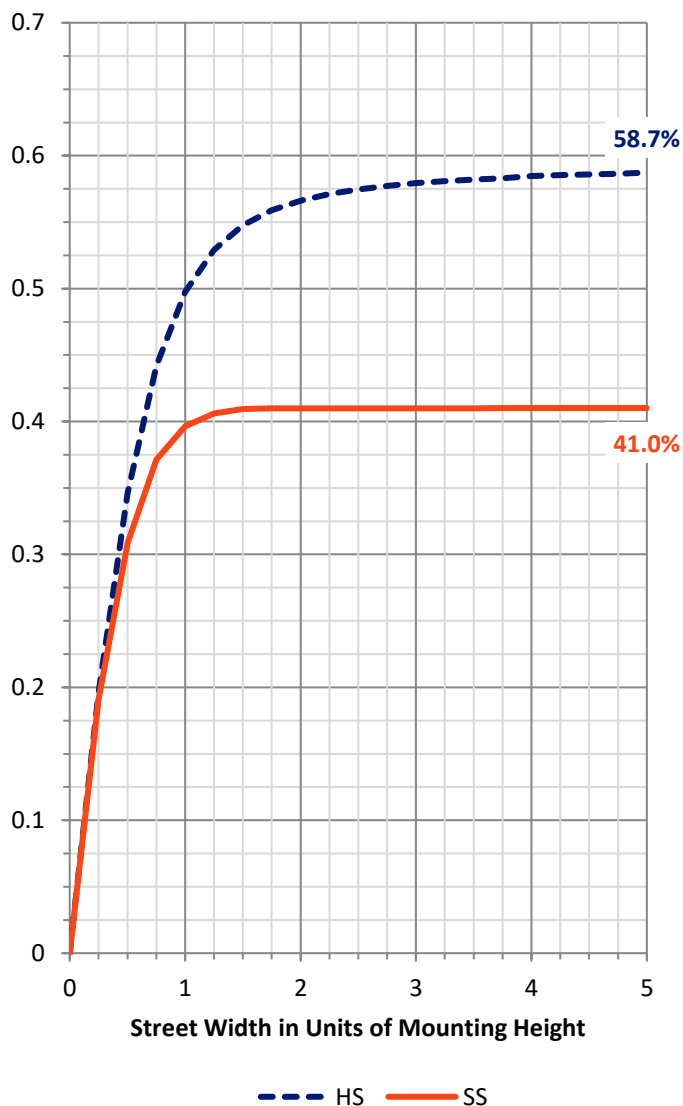
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9467.9	0.0	9467.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6518.5	0.0	6518.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	15986.4	0.0	15986.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1140.9	7.1
10°-20°	3059.5	19.1
20°-30°	3731.2	23.3
30°-40°	3406.6	21.3
40°-50°	2461.8	15.4
50°-60°	1344.2	8.4
60°-70°	555.8	3.5
70°-80°	225.1	1.4
80°-90°	61.2	0.4
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°	15986.4	100.0
0°-180°	15986.4	100.0



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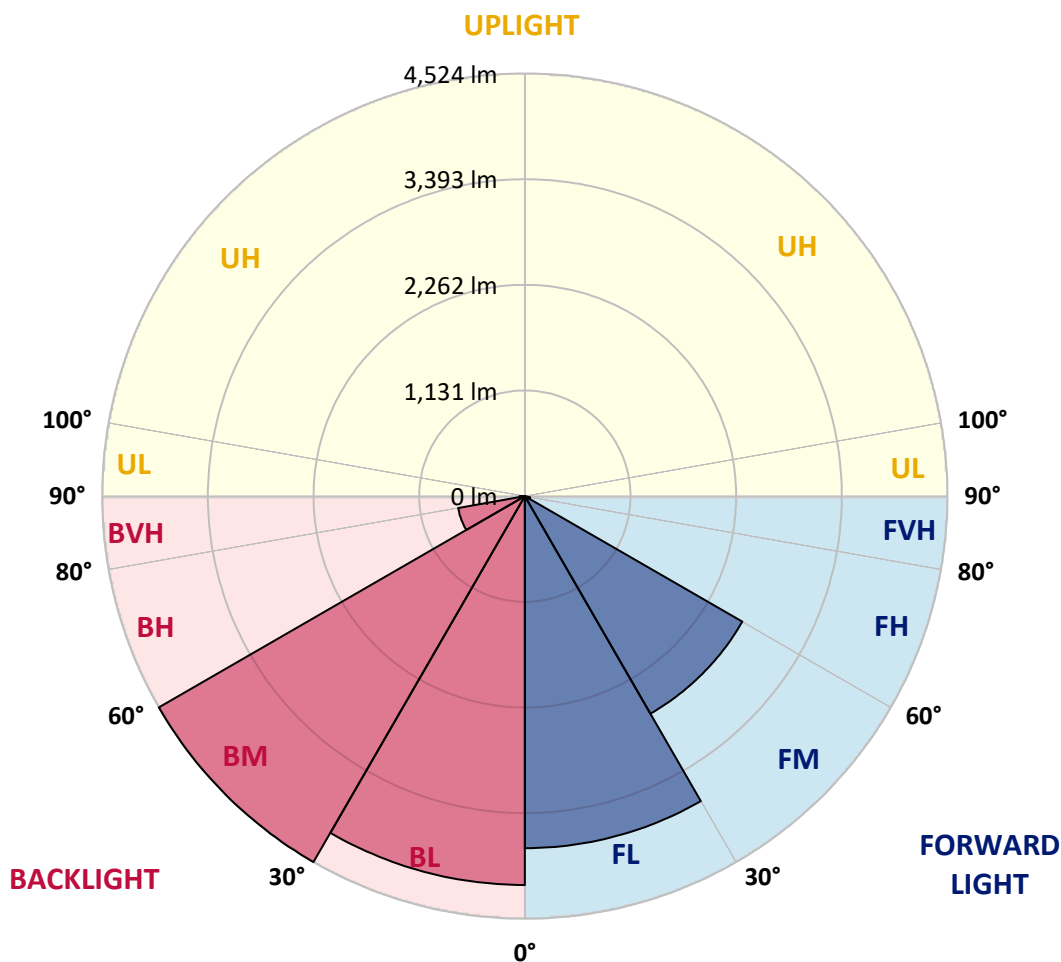
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3768.6	23.6			
FM (30°-60°)	2688.6	16.8			
FH (60°-80°)	56.3	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	4163.1	26.0	B4/5000		
BM (30°-60°)	4524.0	28.3	B3/5000		
BH (60°-80°)	724.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	56.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12165.6	12165.6	12165.6	12165.6	12165.6	12165.6	12165.6	12165.6	12165.6	12165.6
2.5°	12143.1	12158.8	12073.3	12082.3	12098.0	12212.9	12183.6	12156.6	12118.3	12183.6
5°	12127.3	12136.3	12046.3	12014.8	12028.3	12131.8	12037.3	12037.3	12028.3	12017.0
7.5°	12005.7	12010.2	11940.5	11884.2	11920.2	11967.5	11897.7	11931.5	11881.9	11920.2
10°	11823.4	11794.1	11710.8	11695.1	11735.6	11780.6	11733.4	11764.9	11719.8	11749.1
12.5°	11555.5	11510.5	11442.9	11422.7	11492.5	11553.3	11515.0	11497.0	11438.4	11510.5
15°	10522.2	10488.4	10641.5	10909.4	11150.3	11202.1	11161.5	11179.6	11058.0	11078.2
17.5°	8660.4	8597.4	8761.7	9396.6	10301.6	10778.8	10742.8	10625.8	10445.7	10486.2
20°	7870.3	7852.2	7834.2	7985.1	8617.7	10065.2	10114.7	9817.6	9560.9	9504.6
22.5°	7424.5	7417.8	7399.8	7433.5	7600.1	8529.9	9097.2	8822.5	8651.4	8635.7
25°	7017.0	7005.8	6951.8	6994.5	6994.5	7048.6	7775.7	7942.3	7791.5	7773.5
27.5°	6602.8	6582.6	6573.6	6593.8	6490.3	6125.6	6310.2	7122.9	7044.1	7048.6
30°	6154.8	6148.1	6123.3	6166.1	5846.4	5393.9	5276.9	6380.0	6395.7	6391.2
32.5°	5488.5	5517.7	5630.3	5677.6	5150.8	4777.1	4581.2	5520.0	5841.9	5835.2
35°	3986.9	3986.9	4353.9	5036.0	4513.7	4232.3	4126.5	4680.3	5294.9	5317.4
37.5°	3277.8	3289.0	3361.1	3671.7	3894.6	3795.6	3764.0	3939.6	4592.5	4628.5
40°	2949.1	2949.1	2949.1	2820.8	2814.0	3419.6	3401.6	3345.3	3966.6	4045.4
42.5°	2649.7	2656.4	2660.9	2336.8	2156.7	2955.8	2915.3	2829.8	3406.1	3498.4
45°	2341.3	2352.5	2366.0	1954.1	1875.3	2127.4	2467.3	2372.8	2852.3	2971.6
47.5°	1429.5	1447.5	1753.7	1656.9	1665.9	1641.1	2012.6	1996.8	2339.0	2507.9
50°	965.8	972.5	1001.8	1051.3	1429.5	1289.9	1425.0	1652.4	1776.2	2032.9
52.5°	810.4	821.7	749.7	682.1	938.8	1008.5	995.0	1226.9	1276.4	1593.9
55°	569.6	605.6	571.8	565.1	533.5	783.4	754.2	943.3	974.8	1211.2
57.5°	58.5	67.5	117.1	421.0	348.9	443.5	538.0	691.1	722.6	893.7
60°	4.5	4.5	11.3	58.5	254.4	265.6	371.5	425.5	486.3	623.6
62.5°	0.0	2.3	4.5	9.0	40.5	141.8	186.9	222.9	292.7	403.0
65°	0.0	0.0	2.3	6.8	9.0	54.0	72.0	117.1	159.8	249.9
67.5°	0.0	0.0	2.3	4.5	6.8	13.5	24.8	42.8	85.5	141.8
70°	0.0	0.0	2.3	4.5	6.8	11.3	18.0	27.0	38.3	76.5
72.5°	0.0	0.0	2.3	2.3	4.5	11.3	13.5	18.0	27.0	38.3
75°	0.0	0.0	2.3	2.3	6.8	13.5	11.3	13.5	18.0	24.8
77.5°	0.0	0.0	2.3	4.5	6.8	13.5	11.3	13.5	13.5	15.8
80°	0.0	0.0	2.3	4.5	9.0	15.8	13.5	13.5	11.3	11.3
82.5°	0.0	0.0	2.3	6.8	9.0	20.3	20.3	18.0	9.0	6.8
85°	0.0	0.0	4.5	9.0	13.5	22.5	22.5	18.0	6.8	4.5
87.5°	0.0	0.0	4.5	6.8	11.3	15.8	22.5	18.0	6.8	2.3
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°
12165.6	0°	12165.6	12165.6	12165.6	12165.6	12165.6	12165.6	12165.6	12165.6	12165.6
12127.3	2.5°	12188.1	12174.6	12219.6	12237.6	12262.4	12167.8	12109.3	12111.6	12003.5
11990.0	5°	12062.0	12064.3	12122.8	12118.3	12143.1	12091.3	12068.8	12030.5	11936.0
11816.6	7.5°	11902.2	11881.9	11938.2	11981.0	11917.9	11954.0	11902.2	11920.2	11863.9
11663.6	10°	11778.4	11731.1	11782.9	11812.1	11814.4	11778.4	11728.8	11681.6	11661.3
11424.9	12.5°	11503.7	11442.9	11530.7	11571.3	11564.5	11494.7	11438.4	11449.7	11384.4
11006.2	15°	11125.5	11127.8	11190.8	11229.1	11193.1	11177.3	11181.8	11154.8	11098.5
10427.6	17.5°	10547.0	10580.7	10747.3	10839.6	10859.9	10828.4	10812.6	10781.1	10724.8
9504.6	20°	9583.4	9786.0	10083.2	10369.1	10425.4	10416.4	10360.1	10346.6	10315.1
8590.6	22.5°	8737.0	8887.8	9232.2	9678.0	9907.6	9930.1	9862.6	9842.3	9808.6
7773.5	25°	7861.3	8023.3	8334.0	8818.0	9293.0	9389.8	9378.6	9317.8	9281.8
7048.6	27.5°	7122.9	7284.9	7566.3	8003.1	8511.9	8822.5	8851.8	8755.0	8752.7
6402.5	30°	6456.5	6679.4	6893.2	7248.9	7741.9	8207.9	8257.5	8189.9	8196.7
5810.4	32.5°	5934.2	6118.8	6301.2	6539.8	6949.5	7492.1	7685.7	7622.6	7597.9
5317.4	35°	5400.7	5526.7	5713.6	5932.0	6211.1	6749.2	7084.6	7037.3	7012.5
4651.0	37.5°	4792.8	5009.0	5144.0	5389.4	5607.8	6035.5	6508.3	6501.5	6449.7
4083.7	40°	4169.3	4396.6	4601.5	4849.1	5018.0	5357.9	5882.4	5880.2	5886.9
3496.1	42.5°	3604.2	3813.6	4061.2	4331.3	4493.4	4741.1	5303.9	5335.4	5373.7
3012.1	45°	3093.2	3282.3	3511.9	3840.6	4036.4	4178.3	4678.0	4822.1	4819.9
2579.9	47.5°	2633.9	2811.8	3005.4	3325.0	3574.9	3703.3	4117.5	4322.3	4308.8
2116.1	50°	2210.7	2368.3	2570.9	2802.8	3138.2	3250.8	3559.2	3829.3	3809.1
1686.2	52.5°	1778.5	1996.8	2167.9	2379.5	2733.0	2843.3	3081.9	3345.3	3329.6
1265.2	55°	1386.8	1598.4	1805.5	1987.8	2285.0	2449.3	2620.4	2890.6	2886.1
990.5	57.5°	1049.1	1280.9	1476.8	1650.1	1886.5	2089.1	2226.5	2471.8	2503.4
677.6	60°	776.7	954.5	1166.1	1359.7	1546.6	1756.0	1848.3	2089.1	2102.6
463.8	62.5°	529.0	724.9	932.0	1107.6	1247.2	1463.3	1546.6	1744.7	1769.5
297.2	65°	366.9	493.0	729.4	855.5	1026.6	1211.2	1294.5	1452.0	1501.6
171.1	67.5°	243.1	351.2	569.6	684.4	853.2	979.3	1085.1	1213.4	1267.4
108.1	70°	132.8	258.9	407.5	540.3	686.6	808.2	911.7	1015.3	1062.6
49.5	72.5°	90.0	173.3	283.7	427.7	553.8	673.1	765.4	842.0	844.2
29.3	75°	45.0	117.1	216.1	330.9	432.2	549.3	632.6	677.6	623.6
18.0	77.5°	27.0	85.5	175.6	265.6	351.2	443.5	490.8	515.5	427.7
13.5	80°	15.8	60.8	137.3	211.6	243.1	326.4	371.5	378.2	285.9
9.0	82.5°	11.3	45.0	108.1	155.3	148.6	229.6	279.2	270.1	182.3
6.8	85°	6.8	31.5	67.5	96.8	90.0	150.8	162.1	166.6	105.8
4.5	87.5°	4.5	18.0	36.0	51.8	42.8	65.3	65.3	78.8	51.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12165.6
11863.9
11913.4
11769.4
11571.3
11328.1
11042.2
10700.0
10243.0
9799.6
9243.5
8748.2
8162.9
7600.1
6978.8
6492.5
5886.9
5353.4
4824.4
4313.3
3827.1
3363.3
2897.3
2489.8
2122.9
1774.0
1490.3
1260.7
1044.6
823.9
583.1
412.0
267.9
168.8
96.8
45.0
0.0

(END OF REPORT)