

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: P636762

Luminaire Tested: **IFLD-L-SA8A-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636762
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16863.6 lumens
Efficiency: N/A
Efficacy: 68.1 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): 247.8
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



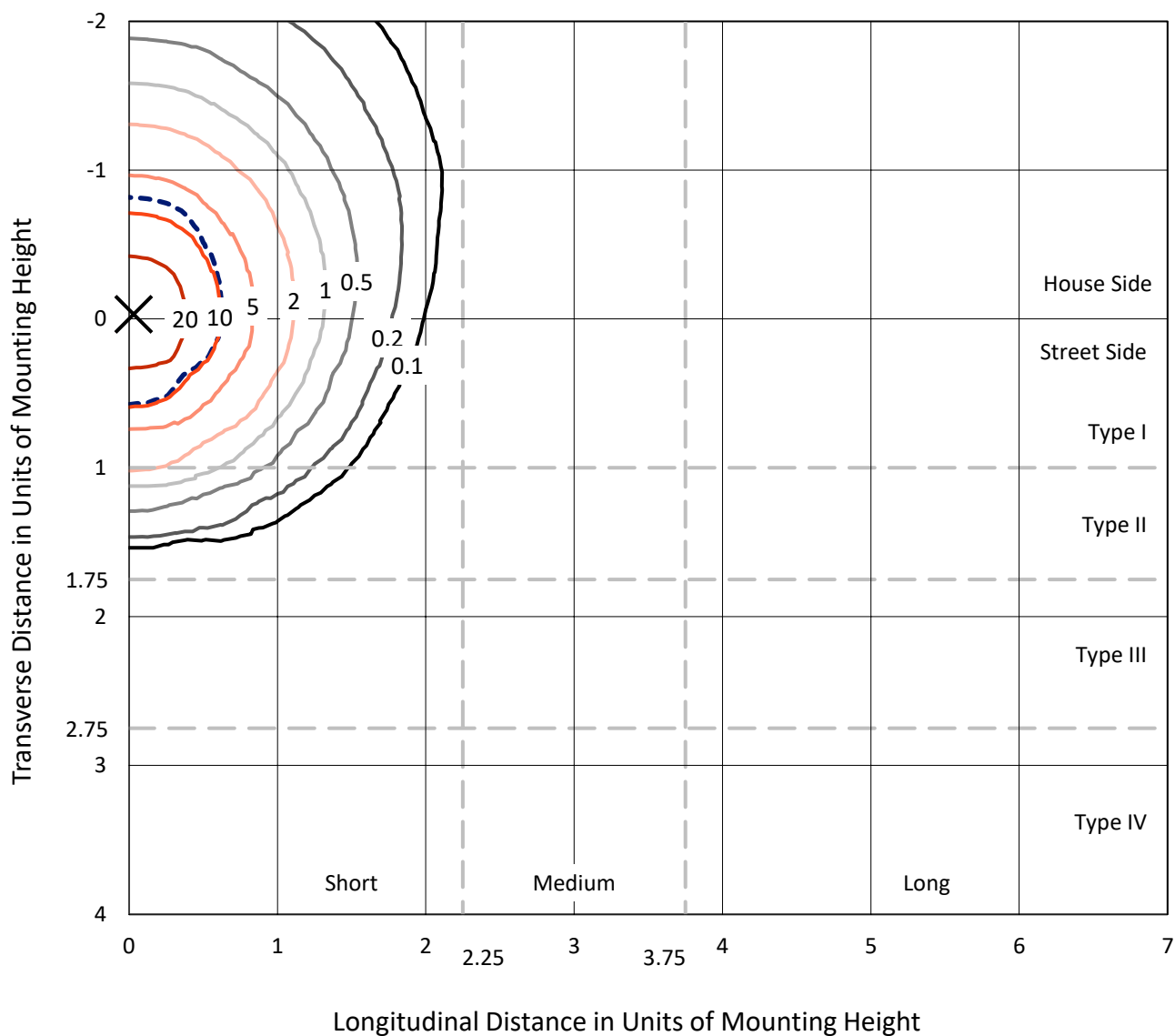
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

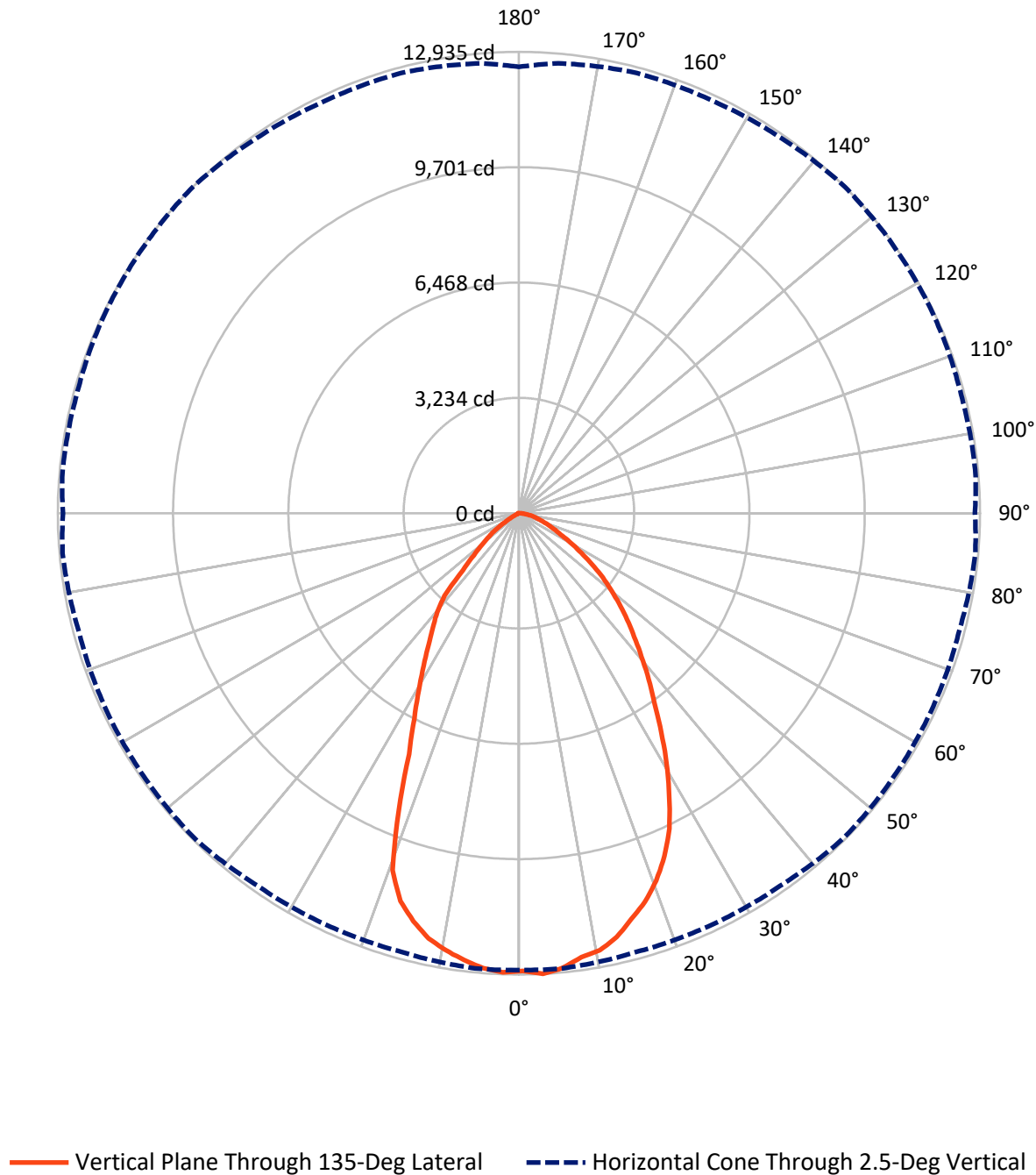


Based on 20 foot mounting height. Maximum calculated value = 32.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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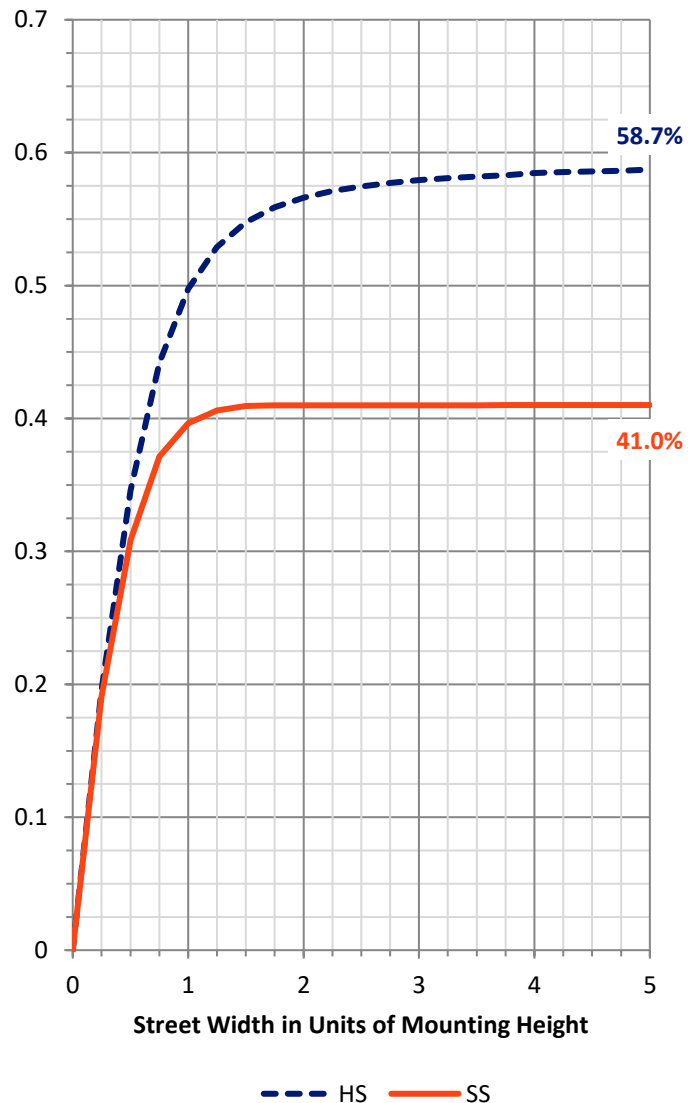
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9987.5	0.0	9987.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6876.1	0.0	6876.1
	% Fixture	40.8	0.0	40.8
Total	Lumens	16863.6	0.0	16863.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1203.5	7.1
10°-20°	3227.4	19.1
20°-30°	3936.0	23.3
30°-40°	3593.5	21.3
40°-50°	2596.9	15.4
50°-60°	1418.0	8.4
60°-70°	586.3	3.5
70°-80°	237.4	1.4
80°-90°	64.6	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°	16863.6	100.0
0°-180°	16863.6	100.0

Coefficient of Utilization



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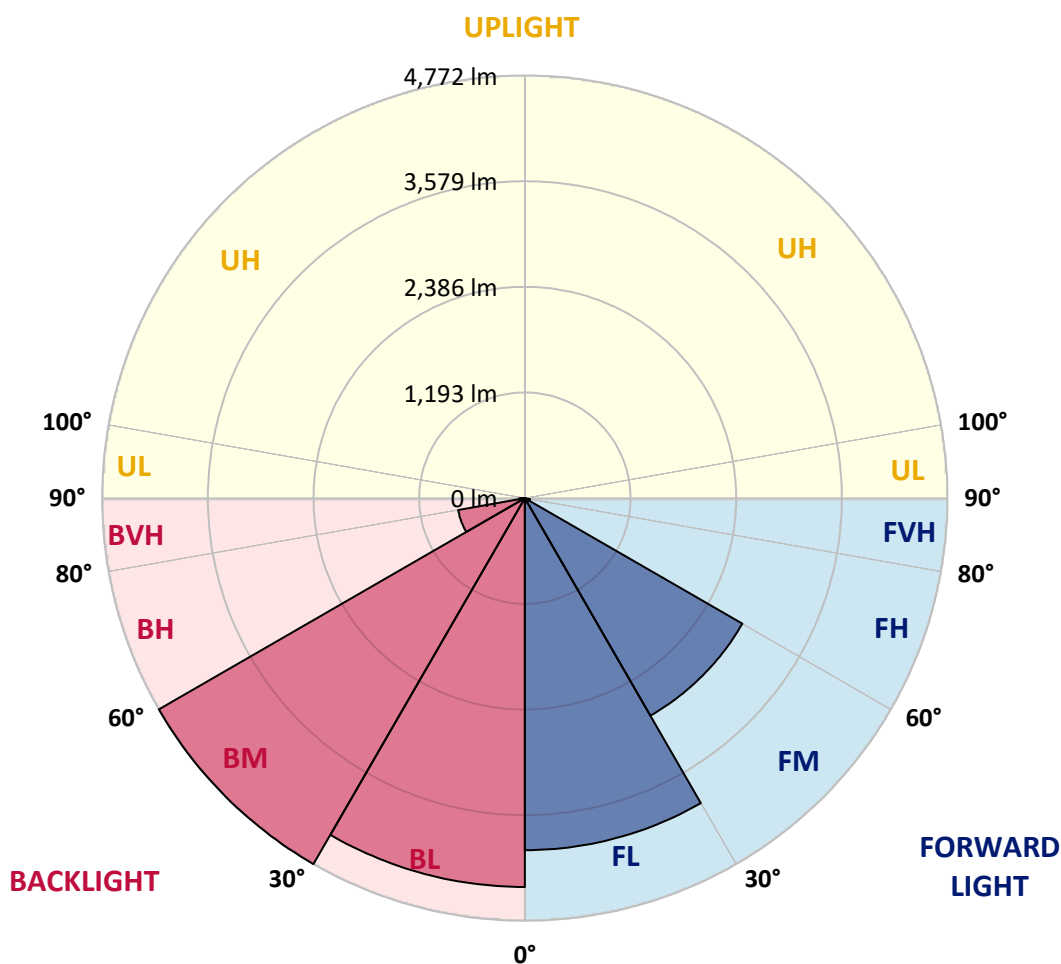
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3975.4	23.6			
FM	(30°-60°)	2836.1	16.8			
FH	(60°-80°)	59.4	0.4			G0/660
FVH	(80°-90°)	5.2	0.0			G0/10
BL	(0°-30°)	4391.5	26.0	B4/5000		
BM	(30°-60°)	4772.2	28.3	B3/5000		
BH	(60°-80°)	764.3	4.5	B2/1000		G2/1000
BVH	(80°-90°)	59.4	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°	12833.1	12833.1	12833.1	12833.1	12833.1	12833.1	12833.1	12833.1	12833.1	12833.1
2.5°	12809.4	12826.0	12735.8	12745.3	12761.9	12883.0	12852.1	12823.6	12783.3	12852.1
5°	12792.8	12802.3	12707.3	12674.0	12688.3	12797.5	12697.8	12697.8	12688.3	12676.4
7.5°	12664.5	12669.3	12595.7	12536.3	12574.3	12624.2	12550.5	12586.2	12533.9	12574.3
10°	12472.2	12441.3	12353.4	12336.8	12379.6	12427.1	12377.2	12410.4	12362.9	12393.8
12.5°	12189.6	12142.1	12070.8	12049.5	12123.1	12187.2	12146.8	12127.8	12066.1	12142.1
15°	11099.6	11064.0	11225.4	11508.0	11762.1	11816.7	11774.0	11793.0	11664.8	11686.1
17.5°	9135.7	9069.2	9242.5	9912.2	10866.8	11370.3	11332.3	11208.8	11018.8	11061.6
20°	8302.1	8283.1	8264.1	8423.2	9090.5	10617.5	10669.7	10356.3	10085.6	10026.2
22.5°	7831.9	7824.8	7805.8	7841.4	8017.2	8997.9	9596.4	9306.6	9126.2	9109.5
25°	7402.1	7390.2	7333.2	7378.3	7378.3	7435.3	8202.4	8378.1	8219.0	8200.0
27.5°	6965.1	6943.8	6934.3	6955.6	6846.4	6461.7	6656.4	7513.7	7430.6	7435.3
30°	6492.6	6485.4	6459.3	6504.4	6167.2	5689.9	5566.4	6730.0	6746.7	6741.9
32.5°	5789.6	5820.5	5939.2	5989.1	5433.4	5039.2	4832.6	5822.9	6162.5	6155.3
35°	4205.7	4205.7	4592.8	5312.3	4761.4	4464.5	4352.9	4937.1	5585.4	5609.2
37.5°	3457.6	3469.5	3545.5	3873.2	4108.3	4003.8	3970.6	4155.8	4844.5	4882.5
40°	3110.9	3110.9	3110.9	2975.6	2968.4	3607.2	3588.2	3528.9	4184.3	4267.4
42.5°	2795.1	2802.2	2807.0	2465.0	2275.0	3118.0	3075.3	2985.1	3593.0	3690.4
45°	2469.7	2481.6	2495.9	2061.3	1978.2	2244.1	2602.7	2503.0	3008.8	3134.7
47.5°	1508.0	1527.0	1849.9	1747.8	1757.3	1731.2	2123.0	2106.4	2467.4	2645.5
50°	1018.8	1025.9	1056.8	1109.0	1508.0	1360.7	1503.2	1743.1	1873.7	2144.4
52.5°	854.9	866.8	790.8	719.5	990.3	1063.9	1049.6	1294.2	1346.5	1681.3
55°	600.8	638.8	603.2	596.1	562.8	826.4	795.5	995.0	1028.3	1277.6
57.5°	61.7	71.2	123.5	444.1	368.1	467.8	567.6	729.0	762.3	942.8
60°	4.7	4.7	11.9	61.7	268.3	280.2	391.8	448.8	512.9	657.8
62.5°	0.0	2.4	4.7	9.5	42.7	149.6	197.1	235.1	308.7	425.1
65°	0.0	0.0	2.4	7.1	9.5	57.0	76.0	123.5	168.6	263.6
67.5°	0.0	0.0	2.4	4.7	7.1	14.2	26.1	45.1	90.2	149.6
70°	0.0	0.0	2.4	4.7	7.1	11.9	19.0	28.5	40.4	80.7
72.5°	0.0	0.0	2.4	2.4	4.7	11.9	14.2	19.0	28.5	40.4
75°	0.0	0.0	2.4	2.4	7.1	14.2	11.9	14.2	19.0	26.1
77.5°	0.0	0.0	2.4	4.7	7.1	14.2	11.9	14.2	14.2	16.6
80°	0.0	0.0	2.4	4.7	9.5	16.6	14.2	14.2	11.9	11.9
82.5°	0.0	0.0	2.4	7.1	9.5	21.4	21.4	19.0	9.5	7.1
85°	0.0	0.0	4.7	9.5	14.2	23.7	23.7	19.0	7.1	4.7
87.5°	0.0	0.0	4.7	7.1	11.9	16.6	23.7	19.0	7.1	2.4
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°
12833.1	0°	12833.1	12833.1	12833.1	12833.1	12833.1	12833.1	12833.1	12833.1	12833.1
12792.8	2.5°	12856.9	12842.6	12890.1	12909.1	12935.3	12835.5	12773.8	12776.1	12662.2
12647.9	5°	12723.9	12726.3	12788.0	12783.3	12809.4	12754.8	12731.0	12690.7	12590.9
12465.1	7.5°	12555.3	12533.9	12593.3	12638.4	12571.9	12609.9	12555.3	12574.3	12514.9
12303.6	10°	12424.7	12374.8	12429.4	12460.3	12462.7	12424.7	12372.4	12322.6	12301.2
12051.8	12.5°	12135.0	12070.8	12163.5	12206.2	12199.1	12125.5	12066.1	12078.0	12009.1
11610.1	15°	11736.0	11738.4	11804.9	11845.2	11807.2	11790.6	11795.4	11766.9	11707.5
10999.8	17.5°	11125.7	11161.3	11337.0	11434.4	11455.8	11422.5	11405.9	11372.7	11313.3
10026.2	20°	10109.3	10323.0	10636.5	10938.1	10997.5	10988.0	10928.6	10914.3	10881.1
9062.0	22.5°	9216.4	9375.5	9738.8	10209.0	10451.3	10475.0	10403.8	10382.4	10346.8
8200.0	25°	8292.6	8463.6	8791.3	9301.9	9803.0	9905.1	9893.2	9829.1	9791.1
7435.3	27.5°	7513.7	7684.7	7981.5	8442.2	8978.9	9306.6	9337.5	9235.4	9233.0
6753.8	30°	6810.8	7045.9	7271.5	7646.7	8166.8	8658.3	8710.6	8639.3	8646.5
6129.2	32.5°	6259.8	6454.6	6646.9	6898.6	7330.8	7903.2	8107.4	8040.9	8014.8
5609.2	35°	5697.0	5830.0	6027.1	6257.5	6551.9	7119.5	7473.3	7423.5	7397.3
4906.2	37.5°	5055.8	5283.8	5426.3	5685.1	5915.5	6366.7	6865.4	6858.3	6803.7
4307.8	40°	4398.0	4637.9	4854.0	5115.2	5293.3	5651.9	6205.2	6202.8	6210.0
3688.0	42.5°	3802.0	4022.8	4284.0	4569.0	4740.0	5001.2	5594.9	5628.2	5668.5
3177.4	45°	3262.9	3462.4	3704.6	4051.3	4257.9	4407.5	4934.7	5086.7	5084.3
2721.5	47.5°	2778.5	2966.1	3170.3	3507.5	3771.1	3906.5	4343.4	4559.5	4545.3
2232.3	50°	2332.0	2498.2	2712.0	2956.6	3310.4	3429.1	3754.5	4039.4	4018.1
1778.7	52.5°	1876.1	2106.4	2286.9	2510.1	2882.9	2999.3	3251.0	3528.9	3512.3
1334.6	55°	1462.8	1686.1	1904.5	2096.9	2410.4	2583.7	2764.2	3049.2	3044.4
1044.9	57.5°	1106.6	1351.2	1557.8	1740.7	1990.0	2203.8	2348.6	2607.5	2640.7
714.8	60°	819.3	1006.9	1230.1	1434.3	1631.5	1852.3	1949.7	2203.8	2218.0
489.2	62.5°	558.1	764.7	983.1	1168.4	1315.6	1543.6	1631.5	1840.4	1866.6
313.5	65°	387.1	520.1	769.4	902.4	1082.9	1277.6	1365.5	1531.7	1584.0
180.5	67.5°	256.5	370.5	600.8	721.9	900.0	1033.0	1144.6	1280.0	1337.0
114.0	70°	140.1	273.1	429.8	569.9	724.3	852.5	961.8	1071.0	1120.9
52.2	72.5°	95.0	182.9	299.2	451.2	584.2	710.0	807.4	888.2	890.5
30.9	75°	47.5	123.5	228.0	349.1	456.0	579.4	667.3	714.8	657.8
19.0	77.5°	28.5	90.2	185.2	280.2	370.5	467.8	517.7	543.8	451.2
14.2	80°	16.6	64.1	144.9	223.2	256.5	344.3	391.8	399.0	301.6
9.5	82.5°	11.9	47.5	114.0	163.9	156.7	242.2	294.5	285.0	192.4
7.1	85°	7.1	33.2	71.2	102.1	95.0	159.1	171.0	175.7	111.6
4.7	87.5°	4.7	19.0	38.0	54.6	45.1	68.9	68.9	83.1	54.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
12833.1
12514.9
12567.2
12415.2
12206.2
11949.7
11648.1
11287.2
10805.1
10337.3
9750.7
9228.3
8610.8
8017.2
7361.7
6848.8
6210.0
5647.2
5089.1
4550.0
4037.1
3547.9
3056.3
2626.5
2239.4
1871.3
1572.1
1329.9
1101.9
869.2
615.1
434.6
282.6
178.1
102.1
47.5
0.0

(END OF REPORT)