

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: P638173

Luminaire Tested: **IFLD-M-SA4A-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638173
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14204.8 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

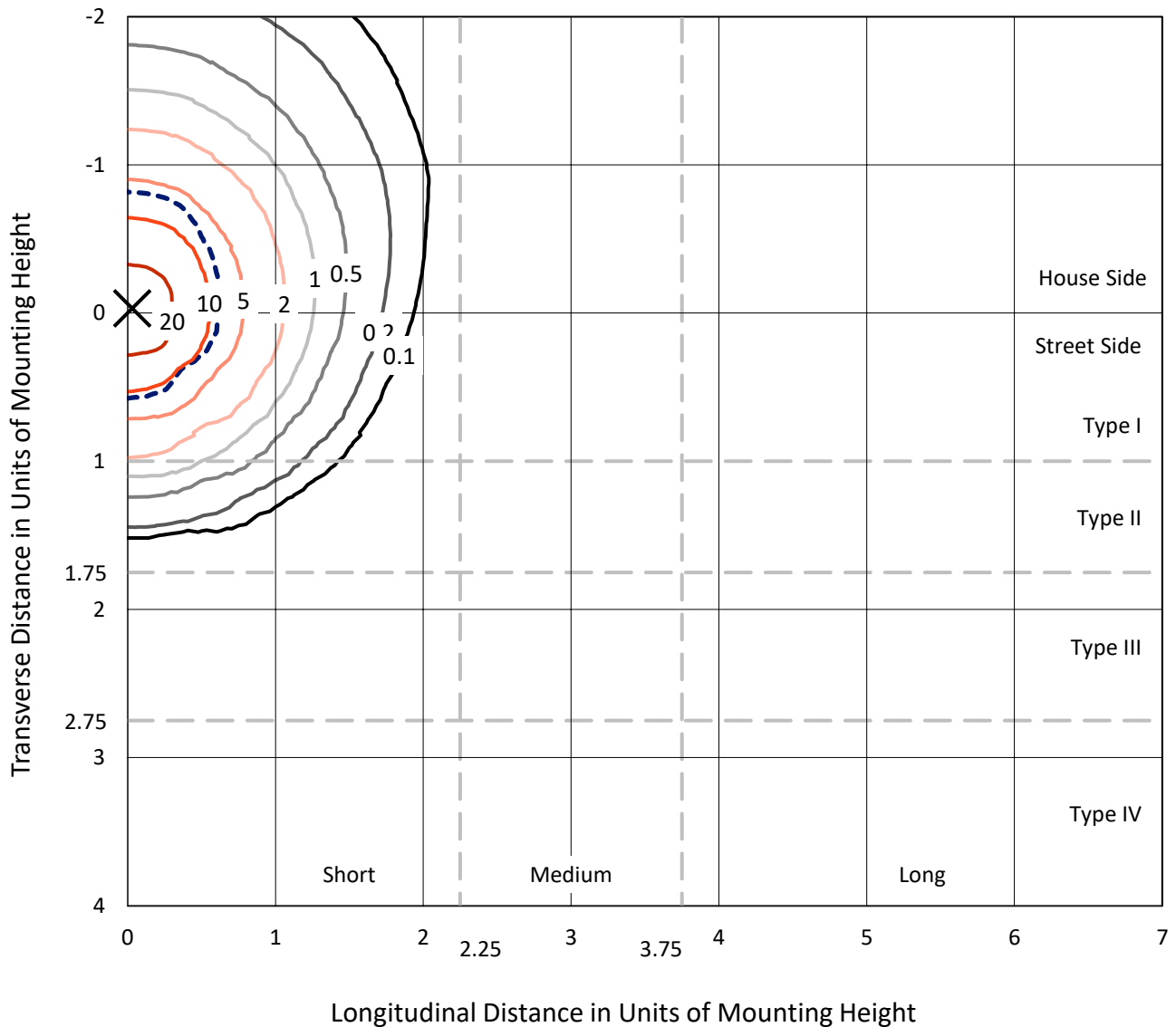
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

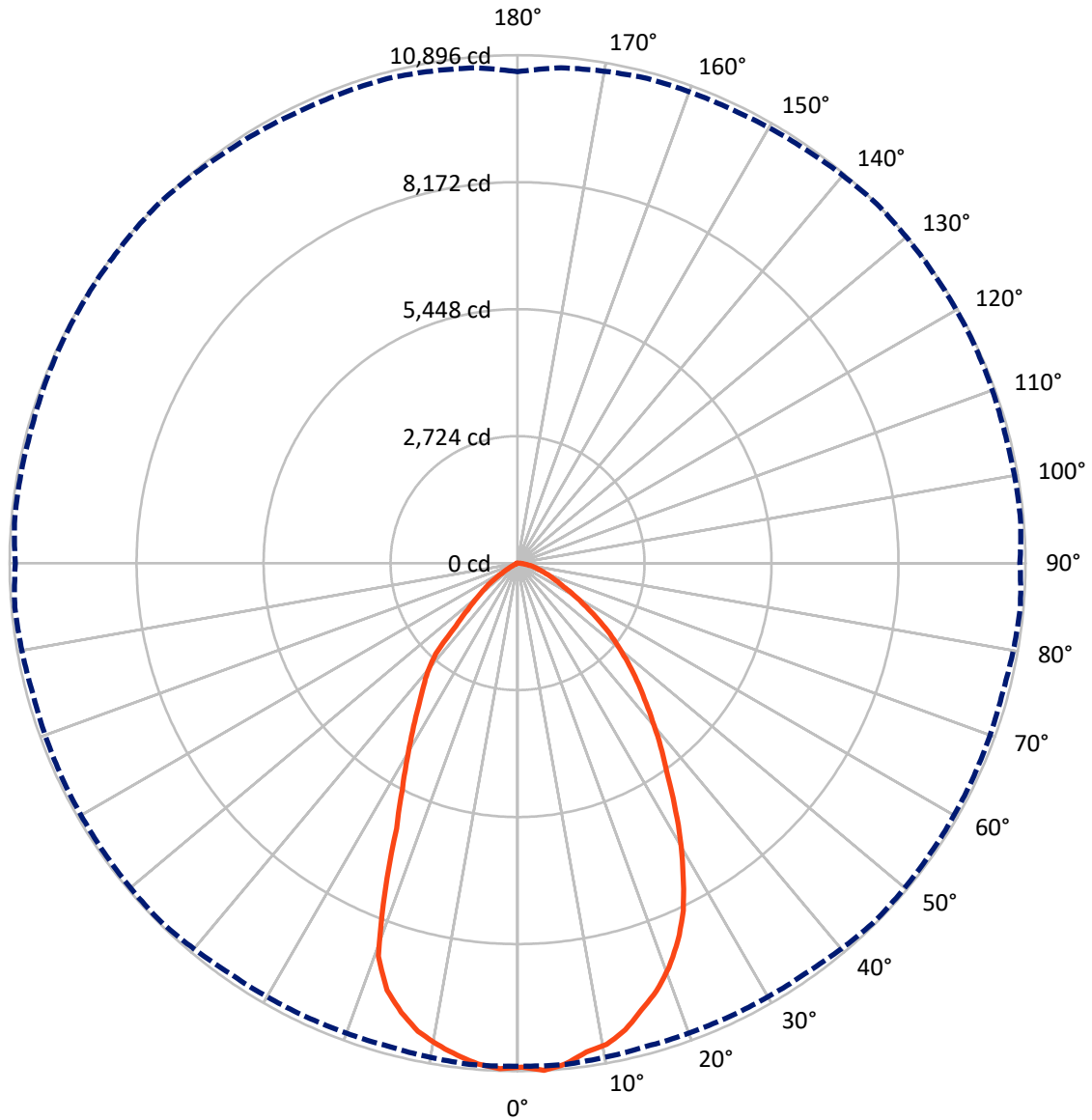
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 27 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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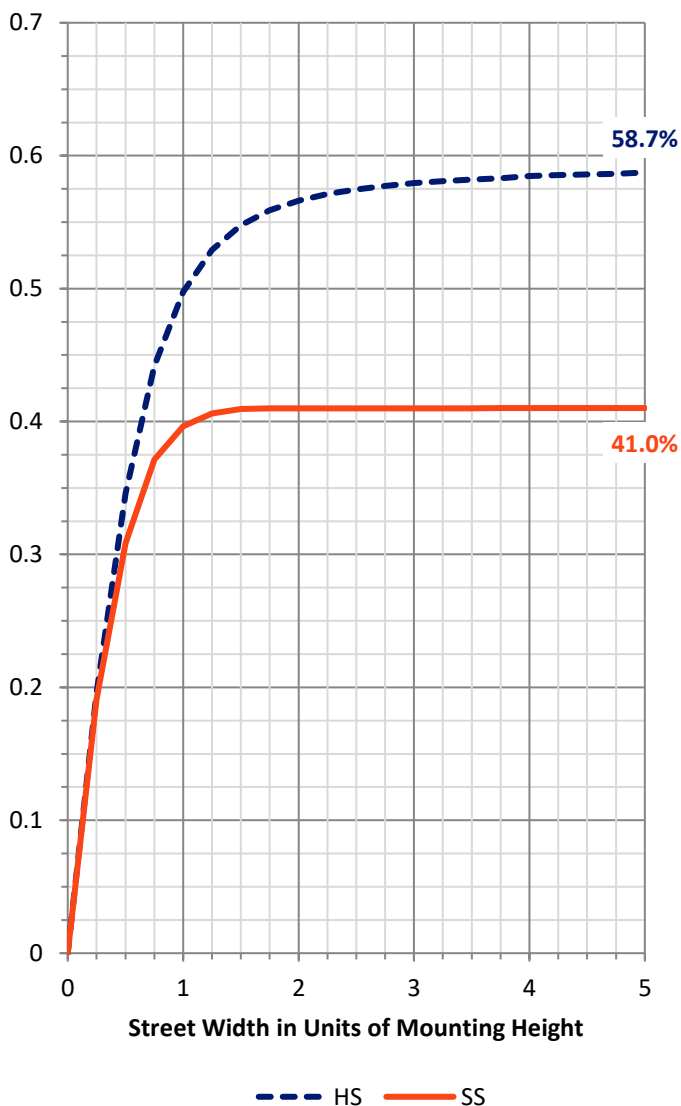
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8412.8	0.0	8412.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5792.0	0.0	5792.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	14204.8	0.0	14204.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1013.8	7.1
10°-20°	2718.5	19.1
20°-30°	3315.4	23.3
30°-40°	3026.9	21.3
40°-50°	2187.5	15.4
50°-60°	1194.4	8.4
60°-70°	493.8	3.5
70°-80°	200.0	1.4
80°-90°	54.4	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°	14204.8	100.0
0°-180°	14204.8	100.0



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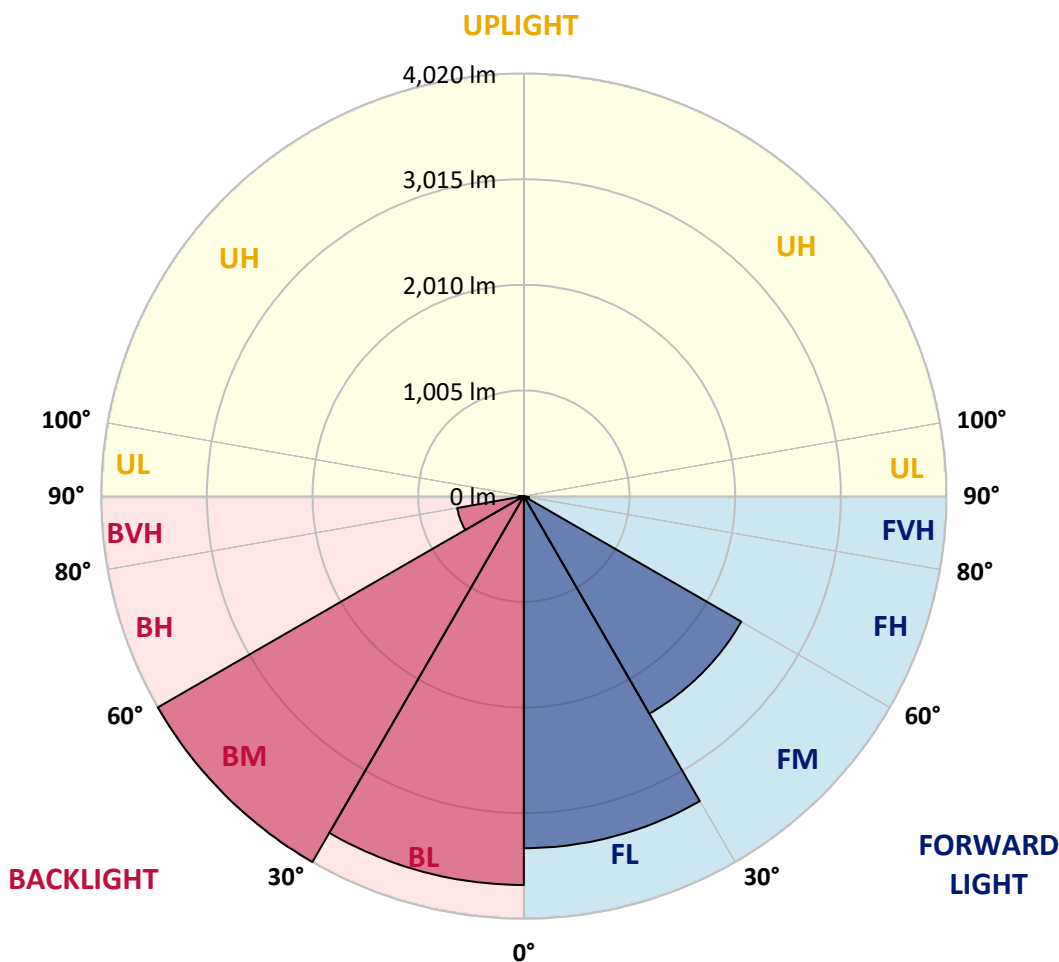
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3348.6	23.6			
FM (30°-60°)	2389.0	16.8			
FH (60°-80°)	50.1	0.4			G0/660
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	3699.1	26.0	B4/5000		
BM (30°-60°)	4019.8	28.3	B3/5000		
BH (60°-80°)	643.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	50.0	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°	10809.8	10809.8	10809.8	10809.8	10809.8	10809.8	10809.8	10809.8	10809.8	10809.8
2.5°	10789.8	10803.8	10727.8	10735.8	10749.8	10851.8	10825.8	10801.8	10767.8	10825.8
5°	10775.8	10783.8	10703.8	10675.8	10687.8	10779.8	10695.8	10695.8	10687.8	10677.8
7.5°	10667.8	10671.8	10609.8	10559.8	10591.8	10633.8	10571.8	10601.8	10557.8	10591.8
10°	10505.8	10479.8	10405.7	10391.7	10427.8	10467.8	10425.8	10453.8	10413.7	10439.8
12.5°	10267.7	10227.7	10167.7	10149.7	10211.7	10265.7	10231.7	10215.7	10163.7	10227.7
15°	9349.6	9319.6	9455.6	9693.6	9907.7	9953.7	9917.7	9933.7	9825.6	9843.7
17.5°	7695.3	7639.3	7785.3	8349.4	9153.5	9577.6	9545.6	9441.6	9281.6	9317.6
20°	6993.2	6977.2	6961.2	7095.2	7657.3	8943.5	8987.5	8723.5	8495.4	8445.4
22.5°	6597.1	6591.1	6575.1	6605.1	6753.1	7579.3	8083.4	7839.3	7687.3	7673.3
25°	6235.0	6225.0	6177.0	6215.0	6215.0	6263.1	6909.2	7057.2	6923.2	6907.2
27.5°	5867.0	5849.0	5841.0	5859.0	5767.0	5442.9	5606.9	6329.1	6259.1	6263.1
30°	5468.9	5462.9	5440.9	5478.9	5194.9	4792.8	4688.8	5669.0	5683.0	5679.0
32.5°	4876.8	4902.8	5002.8	5044.8	4576.8	4244.7	4070.7	4904.8	5190.9	5184.9
35°	3542.6	3542.6	3868.6	4474.8	4010.7	3760.6	3666.6	4158.7	4704.8	4724.8
37.5°	2912.5	2922.5	2986.5	3262.5	3460.6	3372.6	3344.6	3500.6	4080.7	4112.7
40°	2620.4	2620.4	2620.4	2506.4	2500.4	3038.5	3022.5	2972.5	3524.6	3594.6
42.5°	2354.4	2360.4	2364.4	2076.3	1916.3	2626.4	2590.4	2514.4	3026.5	3108.5
45°	2080.3	2090.4	2102.4	1736.3	1666.3	1890.3	2192.4	2108.4	2534.4	2640.4
47.5°	1270.2	1286.2	1558.3	1472.2	1480.2	1458.2	1788.3	1774.3	2078.3	2228.4
50°	858.1	864.1	890.1	934.2	1270.2	1146.2	1266.2	1468.2	1578.3	1806.3
52.5°	720.1	730.1	666.1	606.1	834.1	896.2	884.1	1090.2	1134.2	1416.2
55°	506.1	538.1	508.1	502.1	474.1	696.1	670.1	838.1	866.1	1076.2
57.5°	52.0	60.0	104.0	374.1	310.1	394.1	478.1	614.1	642.1	794.1
60°	4.0	4.0	10.0	52.0	226.0	236.0	330.1	378.1	432.1	554.1
62.5°	0.0	2.0	4.0	8.0	36.0	126.0	166.0	198.0	260.0	358.1
65°	0.0	0.0	2.0	6.0	8.0	48.0	64.0	104.0	142.0	222.0
67.5°	0.0	0.0	2.0	4.0	6.0	12.0	22.0	38.0	76.0	126.0
70°	0.0	0.0	2.0	4.0	6.0	10.0	16.0	24.0	34.0	68.0
72.5°	0.0	0.0	2.0	2.0	4.0	10.0	12.0	16.0	24.0	34.0
75°	0.0	0.0	2.0	2.0	6.0	12.0	10.0	12.0	16.0	22.0
77.5°	0.0	0.0	2.0	4.0	6.0	12.0	10.0	12.0	12.0	14.0
80°	0.0	0.0	2.0	4.0	8.0	14.0	12.0	12.0	10.0	10.0
82.5°	0.0	0.0	2.0	6.0	8.0	18.0	18.0	16.0	8.0	6.0
85°	0.0	0.0	4.0	8.0	12.0	20.0	20.0	16.0	6.0	4.0
87.5°	0.0	0.0	4.0	6.0	10.0	14.0	20.0	16.0	6.0	2.0
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°
10809.8	0°	10809.8	10809.8	10809.8	10809.8	10809.8	10809.8	10809.8	10809.8	10809.8
10775.8	2.5°	10829.8	10817.8	10857.8	10873.8	10895.8	10811.8	10759.8	10761.8	10665.8
10653.8	5°	10717.8	10719.8	10771.8	10767.8	10789.8	10743.8	10723.8	10689.8	10605.8
10499.8	7.5°	10575.8	10557.8	10607.8	10645.8	10589.8	10621.8	10575.8	10591.8	10541.8
10363.7	10°	10465.8	10423.8	10469.8	10495.8	10497.8	10465.8	10421.8	10379.7	10361.7
10151.7	12.5°	10221.7	10167.7	10245.7	10281.7	10275.7	10213.7	10163.7	10173.7	10115.7
9779.6	15°	9885.7	9887.7	9943.7	9977.7	9945.7	9931.7	9935.7	9911.7	9861.7
9265.6	17.5°	9371.6	9401.6	9549.6	9631.6	9649.6	9621.6	9607.6	9579.6	9529.6
8445.4	20°	8515.4	8695.5	8959.5	9213.5	9263.6	9255.6	9205.5	9193.5	9165.5
7633.3	22.5°	7763.3	7897.3	8203.4	8599.4	8803.5	8823.5	8763.5	8745.5	8715.5
6907.2	25°	6985.2	7129.2	7405.2	7835.3	8257.4	8343.4	8333.4	8279.4	8247.4
6263.1	27.5°	6329.1	6473.1	6723.1	7111.2	7563.3	7839.3	7865.3	7779.3	7777.3
5689.0	30°	5737.0	5935.0	6125.0	6441.1	6879.2	7293.2	7337.2	7277.2	7283.2
5162.9	32.5°	5272.9	5436.9	5598.9	5811.0	6175.0	6657.1	6829.1	6773.1	6751.1
4724.8	35°	4798.8	4910.8	5076.9	5270.9	5518.9	5997.0	6295.1	6253.1	6231.0
4132.7	37.5°	4258.7	4450.7	4570.8	4788.8	4982.8	5362.9	5783.0	5777.0	5731.0
3628.6	40°	3704.6	3906.7	4088.7	4308.7	4458.7	4760.8	5226.9	5224.9	5230.9
3106.5	42.5°	3202.5	3388.6	3608.6	3848.6	3992.7	4212.7	4712.8	4740.8	4774.8
2676.4	45°	2748.5	2916.5	3120.5	3412.6	3586.6	3712.6	4156.7	4284.7	4282.7
2292.4	47.5°	2340.4	2498.4	2670.4	2954.5	3176.5	3290.6	3658.6	3840.6	3828.6
1880.3	50°	1964.3	2104.4	2284.4	2490.4	2788.5	2888.5	3162.5	3402.6	3384.6
1498.3	52.5°	1580.3	1774.3	1926.3	2114.4	2428.4	2526.4	2738.5	2972.5	2958.5
1124.2	55°	1232.2	1420.2	1604.3	1766.3	2030.3	2176.4	2328.4	2568.4	2564.4
880.1	57.5°	932.2	1138.2	1312.2	1466.2	1676.3	1856.3	1978.3	2196.4	2224.4
602.1	60°	690.1	848.1	1036.2	1208.2	1374.2	1560.3	1642.3	1856.3	1868.3
412.1	62.5°	470.1	644.1	828.1	984.2	1108.2	1300.2	1374.2	1550.3	1572.3
264.0	65°	326.1	438.1	648.1	760.1	912.2	1076.2	1150.2	1290.2	1334.2
152.0	67.5°	216.0	312.1	506.1	608.1	758.1	870.1	964.2	1078.2	1126.2
96.0	70°	118.0	230.0	362.1	480.1	610.1	718.1	810.1	902.2	944.2
44.0	72.5°	80.0	154.0	252.0	380.1	492.1	598.1	680.1	748.1	750.1
26.0	75°	40.0	104.0	192.0	294.0	384.1	488.1	562.1	602.1	554.1
16.0	77.5°	24.0	76.0	156.0	236.0	312.1	394.1	436.1	458.1	380.1
12.0	80°	14.0	54.0	122.0	188.0	216.0	290.0	330.1	336.1	254.0
8.0	82.5°	10.0	40.0	96.0	138.0	132.0	204.0	248.0	240.0	162.0
6.0	85°	6.0	28.0	60.0	86.0	80.0	134.0	144.0	148.0	94.0
4.0	87.5°	4.0	16.0	32.0	46.0	38.0	58.0	58.0	70.0	46.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10809.8
10541.8
10585.8
10457.8
10281.7
10065.7
9811.6
9507.6
9101.5
8707.5
8213.4
7773.3
7253.2
6753.1
6201.0
5769.0
5230.9
4756.8
4286.7
3832.6
3400.6
2988.5
2574.4
2212.4
1886.3
1576.3
1324.2
1120.2
928.2
732.1
518.1
366.1
238.0
150.0
86.0
40.0
0.0

(END OF REPORT)