

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: P636580

Luminaire Tested: **IFLD-M-SA4C-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636580
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14331.8 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

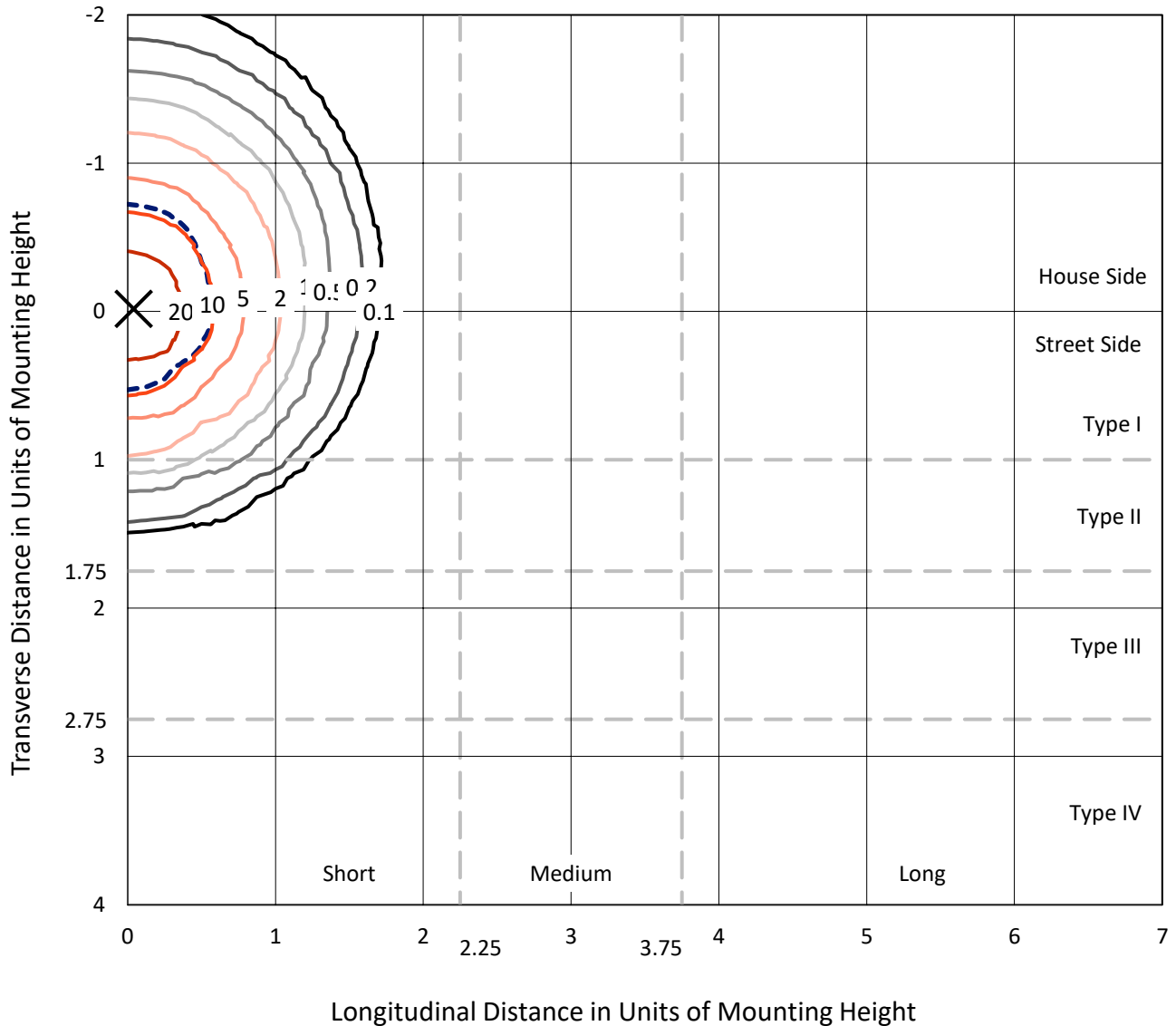
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636580
 CATALOG NUMBER: IFLD-M-SA4C-927-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

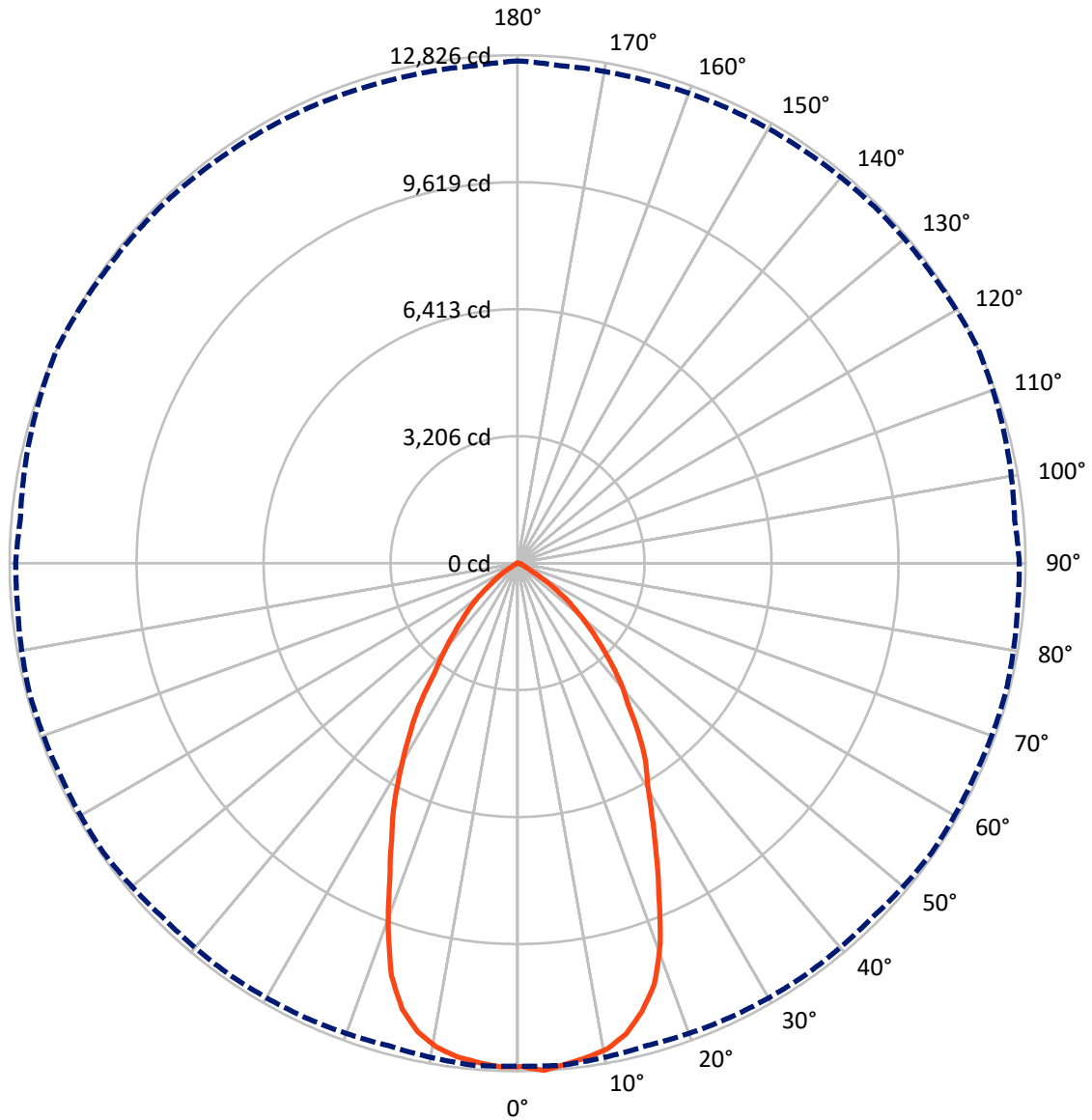
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.8 fc
 Type I - Short - N/A

REPORT NUMBER: P636580
CATALOG NUMBER: IFLD-M-SA4C-927-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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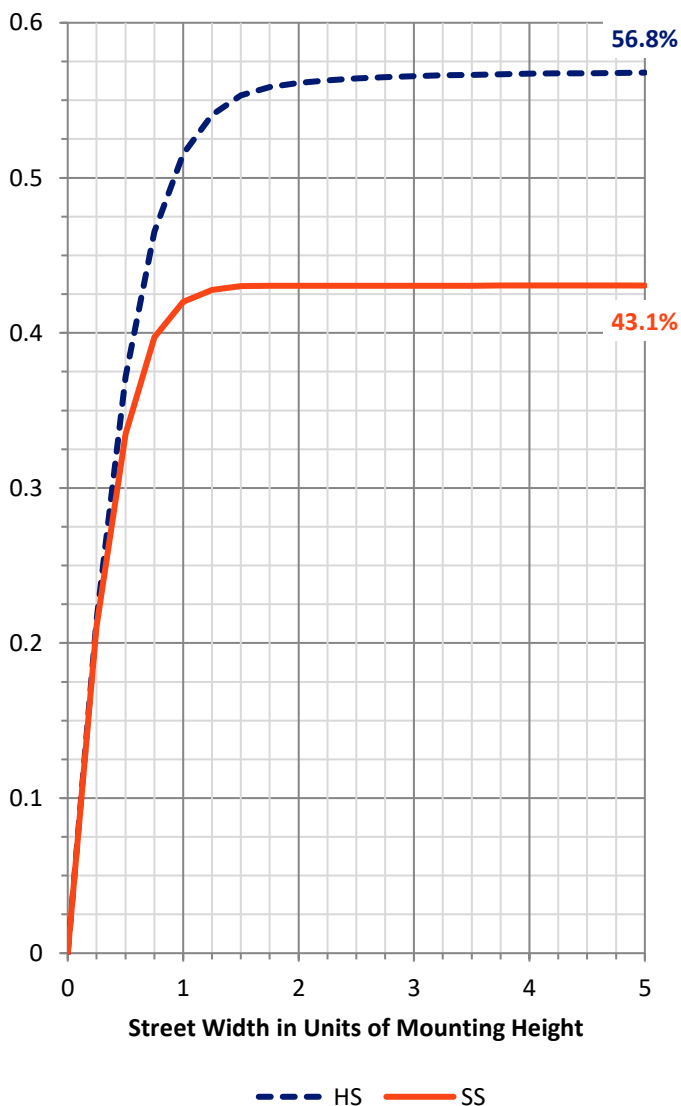
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8201.9	0.0	8201.9
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	6129.9	0.0	6129.9
	% Fixture	42.8	0.0	42.8
Total	Lumens	14331.8	0.0	14331.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1197.7	8.4
10°-20°	3175.6	22.2
20°-30°	3632.3	25.3
30°-40°	3112.8	21.7
40°-50°	2058.3	14.4
50°-60°	898.1	6.3
60°-70°	176.5	1.2
70°-80°	63.7	0.4
80°-90°	16.9	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°	14331.8	100.0
0°-180°	14331.8	100.0



REPORT NUMBER: P636580

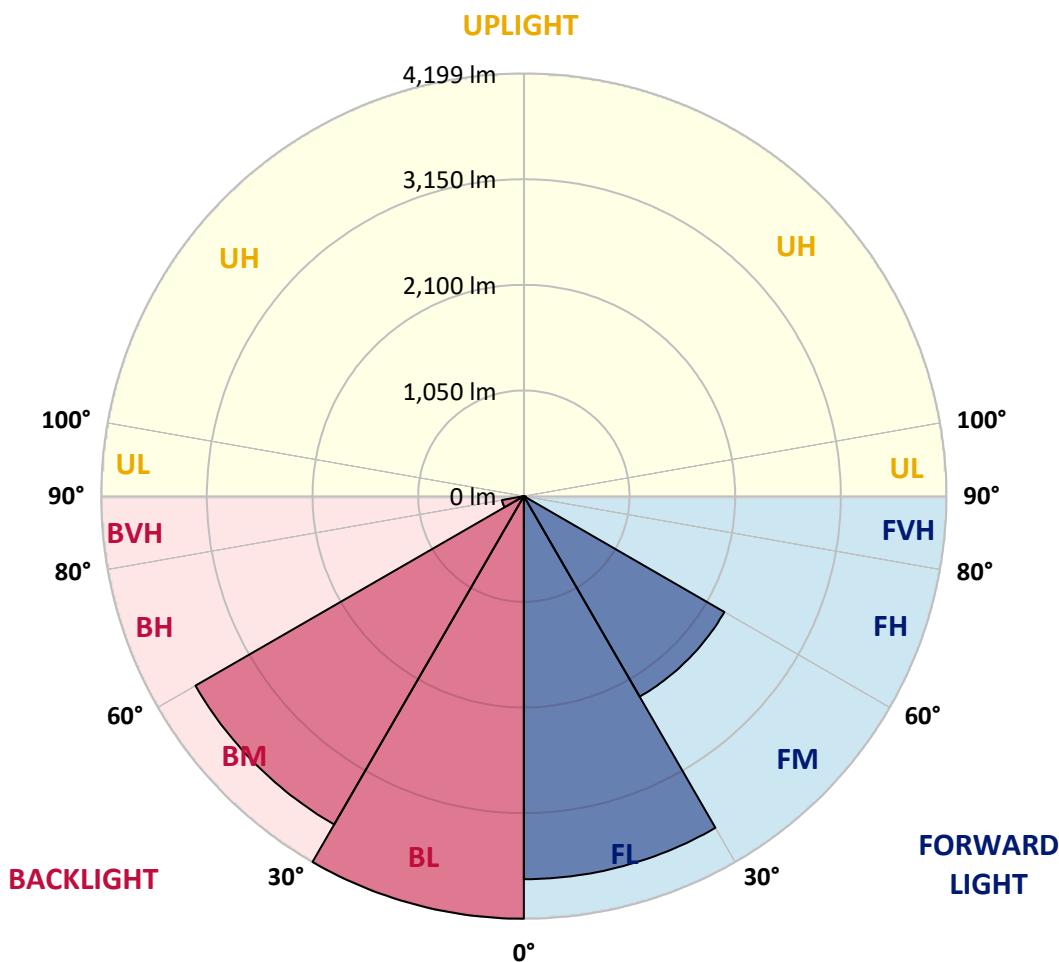
CATALOG NUMBER: IFLD-M-SA4C-927-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3806.2	26.6			
FM (30°-60°)	2301.4	16.1			
FH (60°-80°)	19.5	0.1			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	4199.4	29.3	B4/5000		
BM (30°-60°)	3767.8	26.3	B3/5000		
BH (60°-80°)	220.7	1.5	B1/500		G1/500
BVH (80°-90°)	14.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





REPORT NUMBER: P636580
 CATALOG NUMBER: IFLD-M-SA4C-927-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12716.0	12716.0	12716.0	12716.0	12716.0	12716.0	12716.0	12716.0	12716.0	12716.0
2.5°	12697.7	12728.2	12612.4	12664.2	12685.5	12658.1	12758.6	12728.2	12752.5	12676.4
5°	12697.7	12728.2	12594.1	12618.5	12624.6	12572.8	12682.5	12645.9	12648.9	12569.7
7.5°	12618.5	12655.0	12533.2	12551.5	12554.5	12511.9	12606.3	12554.5	12536.2	12454.0
10°	12405.2	12426.6	12316.9	12362.6	12405.2	12365.6	12447.9	12390.0	12390.0	12316.9
12.5°	12067.1	12106.7	11984.8	12039.7	12076.2	12030.5	12125.0	12103.6	12106.7	12033.6
15°	11451.7	11314.6	11460.8	11570.5	11573.5	11564.4	11652.8	11631.4	11646.7	11537.0
17.5°	8460.1	8426.5	8597.1	9891.9	10854.6	10985.6	11000.8	10885.0	10833.3	10726.6
20°	7838.6	7862.9	7826.4	7832.5	8591.0	10166.1	10071.6	9785.3	9654.3	9547.6
22.5°	7384.6	7345.0	7320.7	7305.4	7326.8	8353.4	9032.8	8600.2	8530.1	8478.3
25°	6891.1	6872.8	6842.4	6836.3	6824.1	6650.4	7628.4	7668.0	7555.2	7491.3
27.5°	6431.1	6418.9	6385.4	6382.4	6242.2	5821.8	5928.4	6869.8	6839.3	6815.0
30°	5940.6	5916.2	5898.0	5898.0	5474.5	5041.9	4868.3	5989.4	5989.4	5968.0
32.5°	5407.5	5386.2	5392.3	5319.1	4813.4	4417.4	4143.2	5169.9	5489.7	5471.5
35°	3305.4	3299.3	3917.8	4731.2	4137.1	3777.6	3759.3	4423.5	4889.6	4938.3
37.5°	2942.9	2924.6	2933.8	2985.5	3543.0	3399.9	3393.8	3506.5	4161.5	4185.9
40°	2641.3	2629.1	2620.0	2434.1	2257.4	3034.3	3013.0	2939.8	3555.2	3597.9
42.5°	2354.9	2342.7	2342.7	2080.7	1794.4	2495.1	2504.2	2418.9	2997.7	3013.0
45°	2059.4	2050.3	1998.5	1660.3	1578.1	1657.3	2074.6	1977.2	2379.3	2537.7
47.5°	971.8	965.7	1398.3	1380.1	1374.0	1325.2	1584.2	1639.0	1888.8	2047.2
50°	779.9	773.8	737.2	648.9	1130.2	1005.3	1142.4	1261.2	1340.4	1486.7
52.5°	645.9	639.8	563.6	499.6	627.6	734.2	682.4	843.9	840.8	999.2
55°	423.5	393.0	432.6	408.2	329.0	533.1	520.9	639.8	624.5	761.6
57.5°	9.1	9.1	21.3	231.5	207.2	225.4	298.6	365.6	411.3	450.9
60°	3.0	3.0	6.1	12.2	85.3	94.4	115.8	134.0	188.9	234.6
62.5°	0.0	0.0	3.0	6.1	12.2	48.7	54.8	64.0	88.3	121.9
65°	0.0	0.0	0.0	3.0	6.1	12.2	18.3	39.6	54.8	70.1
67.5°	0.0	0.0	0.0	3.0	3.0	6.1	12.2	18.3	24.4	48.7
70°	0.0	0.0	0.0	3.0	3.0	6.1	9.1	12.2	18.3	24.4
72.5°	0.0	0.0	0.0	3.0	3.0	9.1	6.1	9.1	12.2	15.2
75°	0.0	0.0	0.0	3.0	3.0	3.0	6.1	9.1	9.1	12.2
77.5°	0.0	0.0	0.0	3.0	6.1	6.1	6.1	6.1	6.1	9.1
80°	0.0	0.0	0.0	3.0	3.0	6.1	9.1	12.2	6.1	6.1
82.5°	0.0	0.0	0.0	6.1	3.0	12.2	18.3	15.2	6.1	3.0
85°	0.0	0.0	0.0	3.0	12.2	15.2	15.2	9.1	3.0	3.0
87.5°	0.0	0.0	0.0	3.0	3.0	6.1	9.1	9.1	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636580

CATALOG NUMBER: IFLD-M-SA4C-927-U-66-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
12716.0	0°	12716.0	12716.0	12716.0	12716.0	12716.0	12716.0	12716.0	12716.0	12716.0
12670.3	2.5°	12600.2	12719.0	12825.6	12758.6	12734.3	12685.5	12648.9	12609.3	12606.3
12560.6	5°	12490.5	12603.3	12706.8	12627.6	12633.7	12609.3	12585.0	12575.8	12581.9
12447.9	7.5°	12396.1	12490.5	12603.3	12536.2	12554.5	12539.3	12527.1	12508.8	12536.2
12301.7	10°	12252.9	12338.2	12469.2	12405.2	12396.1	12380.9	12368.7	12335.2	12350.4
12036.6	12.5°	11939.1	12045.7	12195.0	12121.9	12146.3	12103.6	12085.4	12064.0	12067.1
11576.6	15°	11512.6	11594.9	11747.2	11689.3	11707.6	11680.2	11680.2	11680.2	11701.5
10741.9	17.5°	10769.3	10936.8	11177.5	11104.4	11131.8	11137.9	11131.8	11153.1	11180.6
9553.7	20°	9559.8	9846.2	10284.9	10428.1	10486.0	10489.0	10446.4	10498.1	10553.0
8441.8	22.5°	8447.9	8749.5	9136.4	9529.4	9773.1	9760.9	9767.0	9800.5	9858.4
7451.7	25°	7485.2	7774.6	8124.9	8475.3	9008.4	9118.1	9121.1	9151.6	9197.3
6775.4	27.5°	6790.6	6903.3	7223.2	7576.6	8149.3	8499.7	8481.4	8508.8	8557.5
5928.4	30°	5952.8	6385.4	6458.5	6674.8	7168.3	7811.2	7814.2	7844.7	7893.4
5428.8	32.5°	5413.6	5699.9	5925.4	5931.5	6351.9	7013.0	7144.0	7174.4	7208.0
4910.9	35°	4907.9	4941.4	5246.0	5331.3	5575.0	6230.0	6461.6	6479.8	6534.7
4176.7	37.5°	4246.8	4444.8	4530.1	4834.8	4846.9	5377.0	5837.0	5818.8	5861.4
3594.8	40°	3640.5	3829.4	4045.7	4268.1	4298.6	4694.6	5203.4	5221.7	5239.9
2982.5	42.5°	3006.9	3247.5	3469.9	3619.2	3826.4	4054.9	4539.2	4624.5	4667.2
2556.0	45°	2601.7	2668.7	2933.8	3153.1	3363.3	3469.9	3923.9	4079.2	4106.6
2022.9	47.5°	2050.3	2275.7	2455.5	2641.3	2903.3	2997.7	3326.7	3543.0	3564.4
1501.9	50°	1584.2	1745.6	1992.4	2159.9	2464.6	2516.4	2741.8	3022.1	3049.5
1005.3	52.5°	1133.3	1352.6	1593.3	1754.8	2047.2	2114.3	2281.8	2549.9	2568.2
770.8	55°	813.4	956.6	1154.6	1386.1	1599.4	1748.7	1864.4	2120.3	2144.7
505.7	57.5°	554.5	688.5	770.8	1002.3	1130.2	1291.7	1386.1	1581.1	1599.4
240.7	60°	265.0	329.0	393.0	508.8	591.0	728.1	789.0	868.2	889.6
146.2	62.5°	170.6	201.1	255.9	304.6	383.9	469.2	493.5	560.6	584.9
91.4	65°	112.7	143.2	201.1	213.3	292.5	359.5	389.9	438.7	466.1
54.8	67.5°	64.0	100.5	149.3	176.7	231.5	295.5	329.0	371.7	396.0
36.6	70°	42.7	82.3	118.8	146.2	182.8	237.6	280.3	316.8	332.1
18.3	72.5°	24.4	51.8	82.3	115.8	146.2	198.0	237.6	268.1	176.7
12.2	75°	15.2	39.6	70.1	97.5	121.9	158.4	191.9	188.9	79.2
9.1	77.5°	12.2	30.5	60.9	82.3	100.5	109.7	137.1	155.4	60.9
6.1	80°	9.1	24.4	54.8	70.1	39.6	79.2	106.6	115.8	42.7
6.1	82.5°	6.1	15.2	45.7	48.7	27.4	57.9	85.3	76.2	30.5
3.0	85°	3.0	9.1	15.2	27.4	24.4	27.4	21.3	30.5	21.3
3.0	87.5°	3.0	6.1	12.2	12.2	12.2	9.1	12.2	12.2	12.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12716.0
12679.4
12658.1
12612.4
12423.5
12155.4
11710.6
11271.9
10589.5
9867.5
9276.5
8603.2
7978.7
7284.1
6592.6
5913.2
5297.8
4728.1
4173.7
3616.2
3089.1
2601.7
2166.0
1636.0
913.9
591.0
466.1
393.0
329.0
143.2
79.2
60.9
45.7
30.5
21.3
12.2
0.0

(END OF REPORT)