

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: P636820

Luminaire Tested: **IFLD-L-SA8A-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636820
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (128) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19040 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

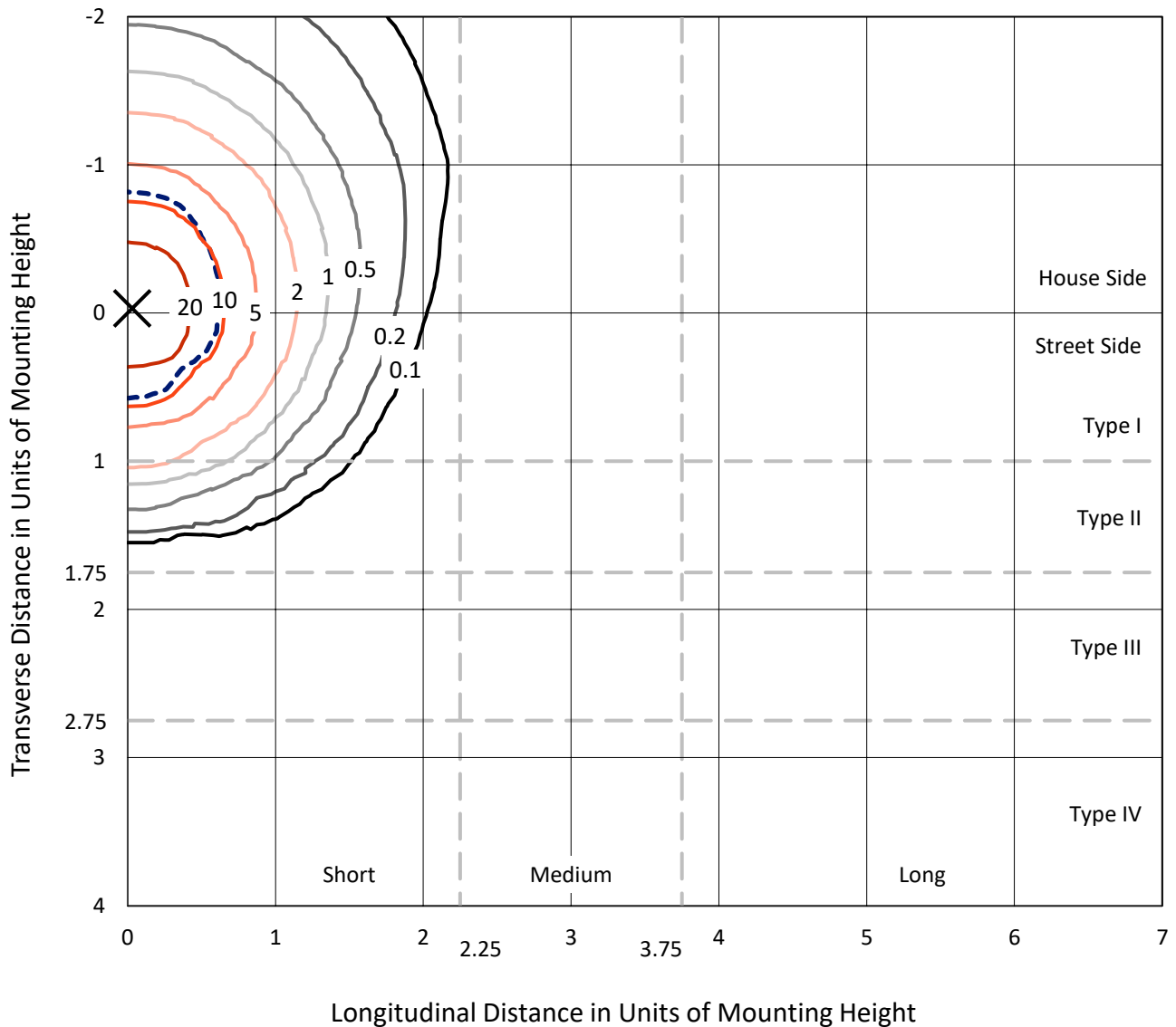
Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

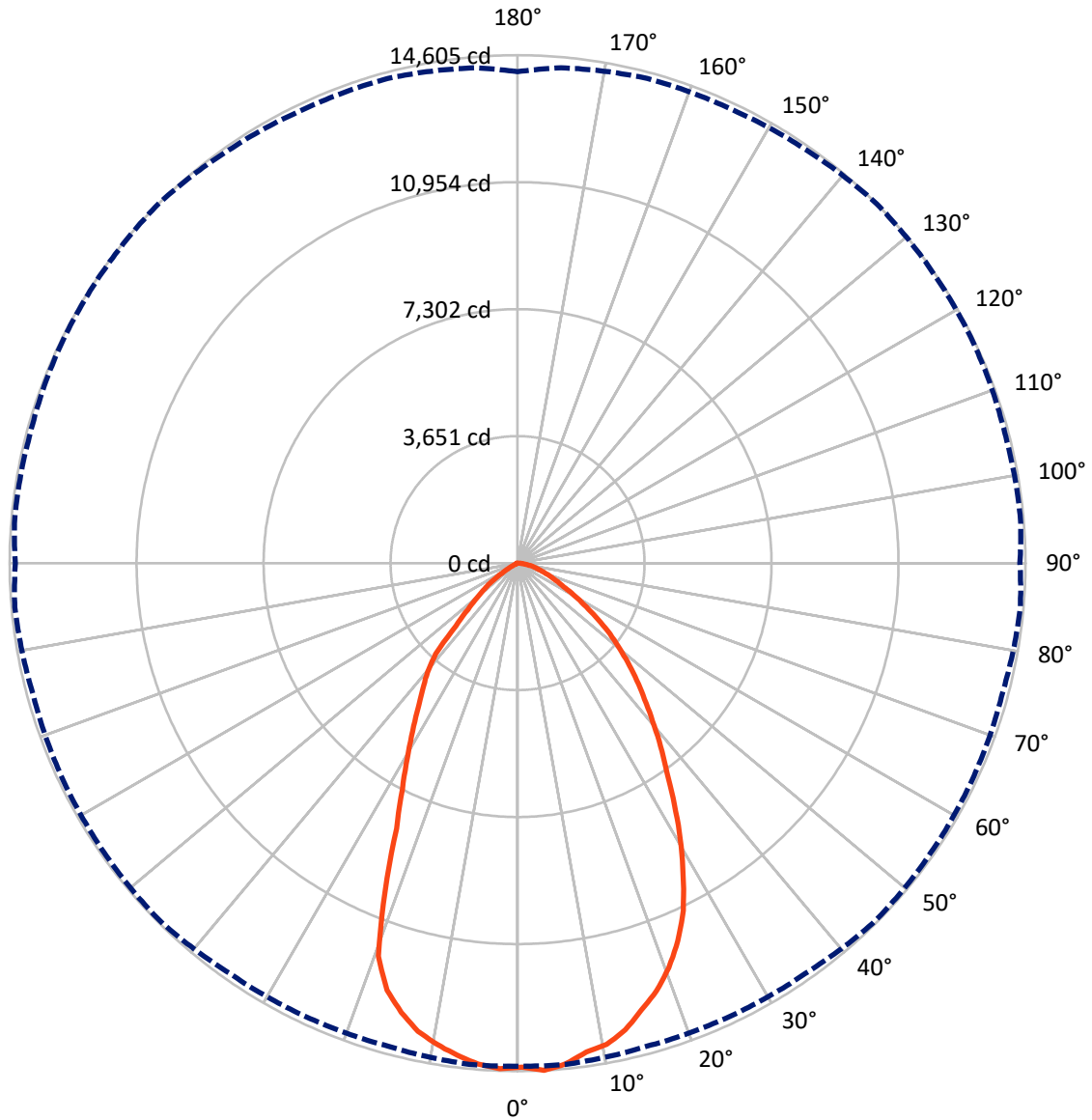
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.2 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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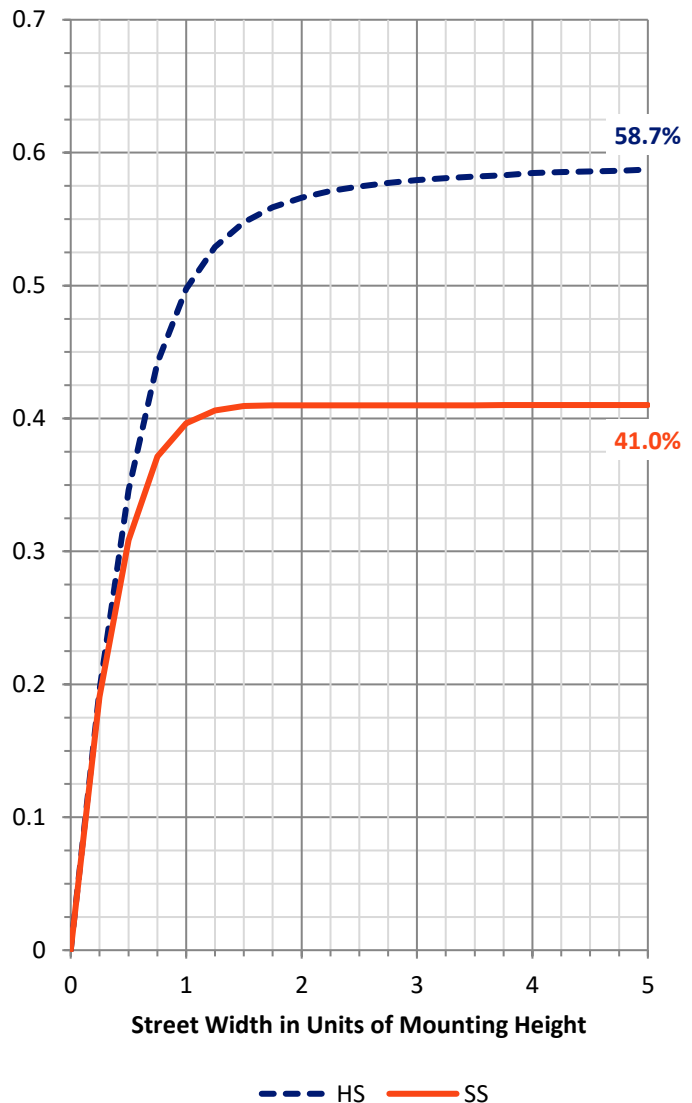
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11276.5	0.0	11276.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	7763.6	0.0	7763.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	19040.0	0.0	19040.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1358.9	7.1
10°-20°	3643.9	19.1
20°-30°	4444.0	23.3
30°-40°	4057.3	21.3
40°-50°	2932.1	15.4
50°-60°	1601.0	8.4
60°-70°	661.9	3.5
70°-80°	268.1	1.4
80°-90°	72.9	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°	19040.0	100.0
0°-180°	19040.0	100.0



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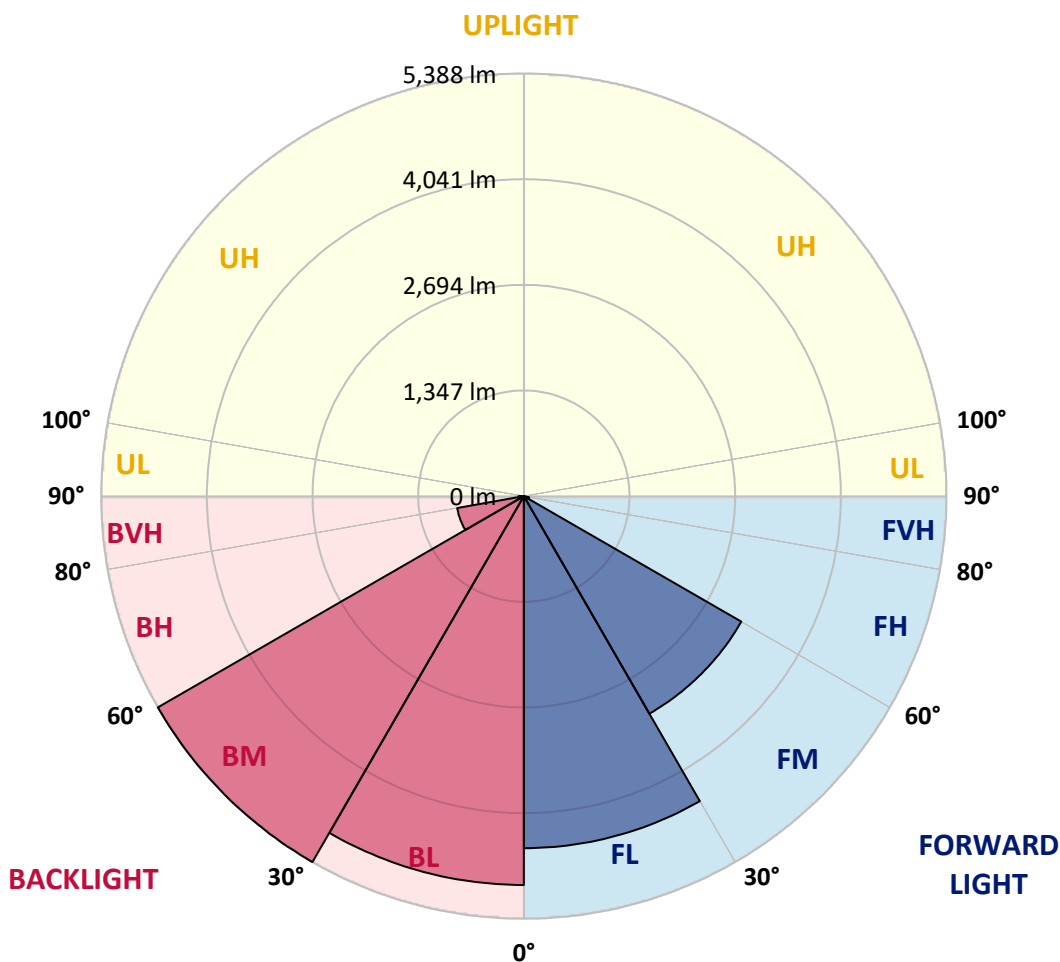
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4488.4	23.6			
FM (30°-60°)	3202.2	16.8			
FH (60°-80°)	67.1	0.4			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	4958.3	26.0	B4/5000		
BM (30°-60°)	5388.2	28.3	B4/8500		
BH (60°-80°)	862.9	4.5	B2/1000		G2/1000
BVH (80°-90°)	67.1	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°	14489.4	14489.4	14489.4	14489.4	14489.4	14489.4	14489.4	14489.4	14489.4	14489.4
2.5°	14462.6	14481.4	14379.5	14390.2	14409.0	14545.7	14510.9	14478.7	14433.1	14510.9
5°	14443.8	14454.6	14347.3	14309.8	14325.9	14449.2	14336.6	14336.6	14325.9	14312.5
7.5°	14299.0	14304.4	14221.3	14154.3	14197.2	14253.5	14170.3	14210.6	14151.6	14197.2
10°	14081.9	14047.0	13947.8	13929.0	13977.3	14030.9	13974.6	14012.2	13958.5	13993.4
12.5°	13762.8	13709.2	13628.7	13604.6	13687.7	13760.1	13714.5	13693.1	13623.4	13709.2
15°	12532.1	12491.9	12674.2	12993.3	13280.2	13341.8	13293.6	13315.0	13170.2	13194.4
17.5°	10314.7	10239.7	10435.4	11191.5	12269.4	12837.8	12794.9	12655.4	12441.0	12489.2
20°	9373.6	9352.2	9330.7	9510.4	10263.8	11987.8	12046.8	11692.9	11387.2	11320.2
22.5°	8842.7	8834.7	8813.2	8853.5	9051.9	10159.2	10834.9	10507.8	10304.0	10285.2
25°	8357.4	8344.0	8279.7	8330.6	8330.6	8395.0	9261.0	9459.4	9279.8	9258.3
27.5°	7864.1	7839.9	7829.2	7853.3	7730.0	7295.7	7515.5	8483.4	8389.6	8395.0
30°	7330.5	7322.5	7293.0	7343.9	6963.2	6424.2	6284.8	7598.6	7617.4	7612.0
32.5°	6536.9	6571.7	6705.8	6762.1	6134.7	5689.6	5456.3	6574.4	6957.8	6949.8
35°	4748.5	4748.5	5185.5	5997.9	5375.9	5040.7	4914.7	5574.3	6306.3	6333.1
37.5°	3903.9	3917.3	4003.1	4373.1	4638.5	4520.6	4483.0	4692.2	5469.7	5512.6
40°	3512.4	3512.4	3512.4	3359.6	3351.5	4072.8	4051.4	3984.3	4724.3	4818.2
42.5°	3155.8	3163.9	3169.2	2783.1	2568.6	3520.5	3472.2	3370.3	4056.7	4166.6
45°	2788.5	2801.9	2818.0	2327.3	2233.5	2533.8	2938.6	2826.0	3397.1	3539.2
47.5°	1702.6	1724.0	2088.7	1973.4	1984.1	1954.6	2397.0	2378.3	2785.8	2986.9
50°	1150.3	1158.3	1193.2	1252.1	1702.6	1536.4	1697.2	1968.0	2115.5	2421.2
52.5°	965.2	978.7	892.9	812.4	1118.1	1201.2	1185.1	1461.3	1520.3	1898.3
55°	678.4	721.3	681.0	673.0	635.5	933.1	898.2	1123.4	1161.0	1442.5
57.5°	69.7	80.4	139.4	501.4	415.6	528.2	640.8	823.1	860.7	1064.5
60°	5.4	5.4	13.4	69.7	303.0	316.4	442.4	506.8	579.1	742.7
62.5°	0.0	2.7	5.4	10.7	48.3	168.9	222.5	265.4	348.6	479.9
65°	0.0	0.0	2.7	8.0	10.7	64.3	85.8	139.4	190.4	297.6
67.5°	0.0	0.0	2.7	5.4	8.0	16.1	29.5	50.9	101.9	168.9
70°	0.0	0.0	2.7	5.4	8.0	13.4	21.4	32.2	45.6	91.2
72.5°	0.0	0.0	2.7	2.7	5.4	13.4	16.1	21.4	32.2	45.6
75°	0.0	0.0	2.7	2.7	8.0	16.1	13.4	16.1	21.4	29.5
77.5°	0.0	0.0	2.7	5.4	8.0	16.1	13.4	16.1	16.1	18.8
80°	0.0	0.0	2.7	5.4	10.7	18.8	16.1	16.1	13.4	13.4
82.5°	0.0	0.0	2.7	8.0	10.7	24.1	24.1	21.4	10.7	8.0
85°	0.0	0.0	5.4	10.7	16.1	26.8	26.8	21.4	8.0	5.4
87.5°	0.0	0.0	5.4	8.0	13.4	18.8	26.8	21.4	8.0	2.7
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°
14489.4	0°	14489.4	14489.4	14489.4	14489.4	14489.4	14489.4	14489.4	14489.4	14489.4
14443.8	2.5°	14516.2	14500.1	14553.8	14575.2	14604.7	14492.1	14422.4	14425.1	14296.4
14280.3	5°	14366.1	14368.8	14438.5	14433.1	14462.6	14400.9	14374.1	14328.5	14215.9
14073.8	7.5°	14175.7	14151.6	14218.6	14269.6	14194.5	14237.4	14175.7	14197.2	14130.1
13891.5	10°	14028.2	13971.9	14033.6	14068.5	14071.1	14028.2	13969.3	13913.0	13888.8
13607.3	12.5°	13701.1	13628.7	13733.3	13781.6	13773.5	13690.4	13623.4	13636.8	13559.0
13108.6	15°	13250.7	13253.4	13328.4	13374.0	13331.1	13312.4	13317.7	13285.5	13218.5
12419.5	17.5°	12561.6	12601.8	12800.2	12910.2	12934.3	12896.8	12878.0	12840.5	12773.4
11320.2	20°	11414.0	11655.3	12009.3	12349.8	12416.8	12406.1	12339.1	12323.0	12285.4
10231.6	22.5°	10405.9	10585.5	10995.8	11526.6	11800.1	11826.9	11746.5	11722.4	11682.2
9258.3	25°	9362.9	9555.9	9925.9	10502.4	11068.2	11183.4	11170.0	11097.6	11054.7
8395.0	27.5°	8483.4	8676.5	9011.6	9531.8	10137.8	10507.8	10542.6	10427.3	10424.7
7625.4	30°	7689.8	7955.2	8210.0	8633.6	9220.8	9775.8	9834.8	9754.3	9762.4
6920.3	32.5°	7067.7	7287.6	7504.8	7789.0	8277.0	8923.2	9153.8	9078.7	9049.2
6333.1	35°	6432.3	6582.4	6805.0	7065.1	7397.5	8038.4	8437.9	8381.6	8352.1
5539.4	37.5°	5708.4	5965.8	6126.6	6418.9	6679.0	7188.4	7751.5	7743.4	7681.8
4863.8	40°	4965.7	5236.5	5480.5	5775.4	5976.5	6381.3	7006.1	7003.4	7011.4
4164.0	42.5°	4292.7	4542.0	4837.0	5158.7	5351.8	5646.7	6317.0	6354.5	6400.1
3587.5	45°	3684.0	3909.2	4182.7	4574.2	4807.5	4976.4	5571.6	5743.2	5740.5
3072.7	47.5°	3137.1	3348.9	3579.5	3960.2	4257.8	4410.6	4904.0	5148.0	5131.9
2520.4	50°	2633.0	2820.7	3062.0	3338.1	3737.6	3871.7	4239.0	4560.8	4536.7
2008.2	52.5°	2118.2	2378.3	2582.0	2834.1	3255.0	3386.4	3670.6	3984.3	3965.6
1506.9	55°	1651.6	1903.7	2150.4	2367.5	2721.5	2917.2	3121.0	3442.7	3437.3
1179.7	57.5°	1249.5	1525.6	1758.9	1965.3	2246.9	2488.2	2651.7	2944.0	2981.5
807.1	60°	925.0	1136.8	1388.9	1619.5	1842.0	2091.4	2201.3	2488.2	2504.3
552.3	62.5°	630.1	863.4	1110.0	1319.2	1485.4	1742.8	1842.0	2078.0	2107.5
353.9	65°	437.0	587.2	868.7	1018.9	1222.6	1442.5	1541.7	1729.4	1788.4
203.8	67.5°	289.6	418.3	678.4	815.1	1016.2	1166.3	1292.4	1445.2	1509.5
128.7	70°	158.2	308.3	485.3	643.5	817.8	962.6	1085.9	1209.2	1265.5
59.0	72.5°	107.2	206.5	337.8	509.4	659.6	801.7	911.6	1002.8	1005.5
34.9	75°	53.6	139.4	257.4	394.1	514.8	654.2	753.4	807.1	742.7
21.4	77.5°	32.2	101.9	209.1	316.4	418.3	528.2	584.5	614.0	509.4
16.1	80°	18.8	72.4	163.6	252.0	289.6	388.8	442.4	450.4	340.5
10.7	82.5°	13.4	53.6	128.7	185.0	177.0	273.5	332.5	321.7	217.2
8.0	85°	8.0	37.5	80.4	115.3	107.2	179.6	193.0	198.4	126.0
5.4	87.5°	5.4	21.4	42.9	61.7	50.9	77.8	77.8	93.8	61.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14489.4
14130.1
14189.1
14017.5
13781.6
13492.0
13151.5
12743.9
12199.6
11671.4
11009.2
10419.3
9722.2
9051.9
8311.8
7732.7
7011.4
6376.0
5745.9
5137.3
4558.1
4005.8
3450.8
2965.5
2528.4
2112.8
1775.0
1501.5
1244.1
981.3
694.4
490.7
319.1
201.1
115.3
53.6
0.0

(END OF REPORT)