

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: P636725

Luminaire Tested: **IFLD-M-SA4C-927-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636725  
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-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (64) 2700K CCT, 90 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13845.4 lumens  
Efficiency: N/A  
Efficacy: 63.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

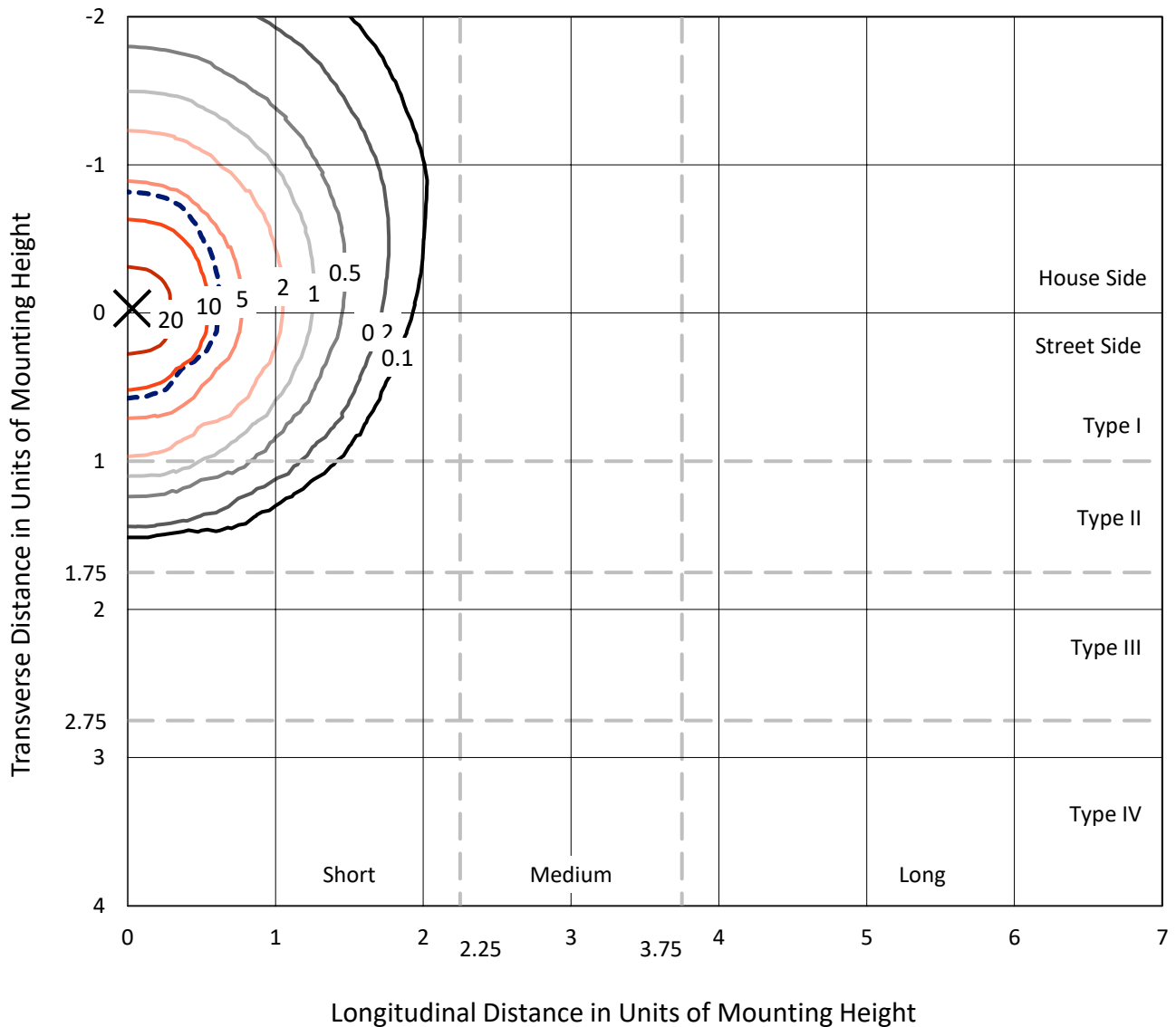
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

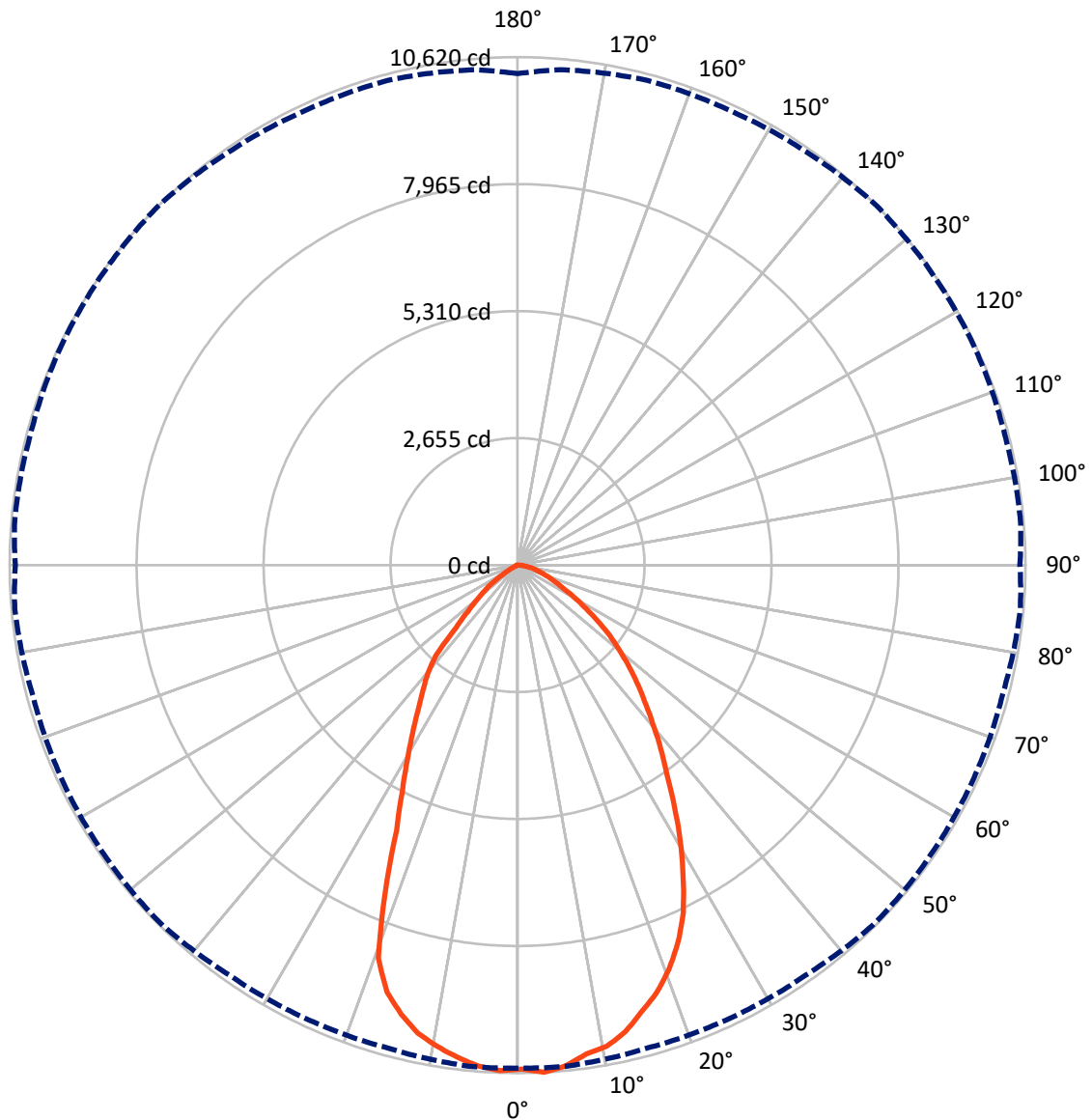
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.3 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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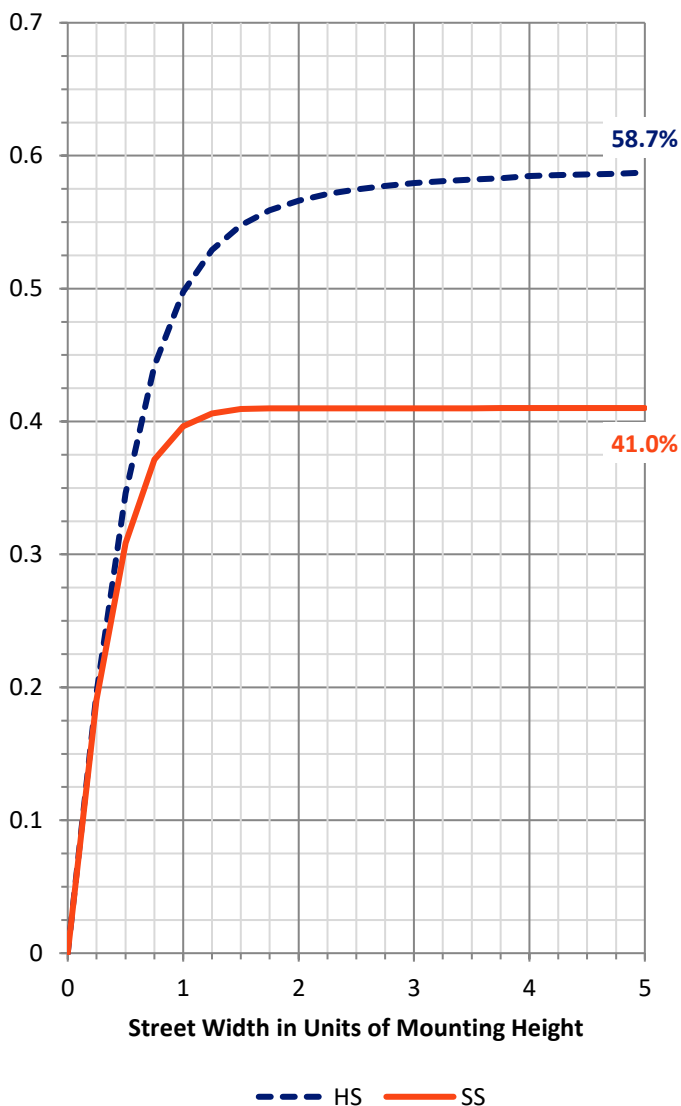
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8199.9	0.0	8199.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	5645.4	0.0	5645.4
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	13845.4	0.0	13845.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	988.1	7.1
10°-20°	2649.8	19.1
20°-30°	3231.5	23.3
30°-40°	2950.3	21.3
40°-50°	2132.1	15.4
50°-60°	1164.2	8.4
60°-70°	481.3	3.5
70°-80°	194.9	1.4
80°-90°	53.0	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°	13845.4	100.0
0°-180°	13845.4	100.0



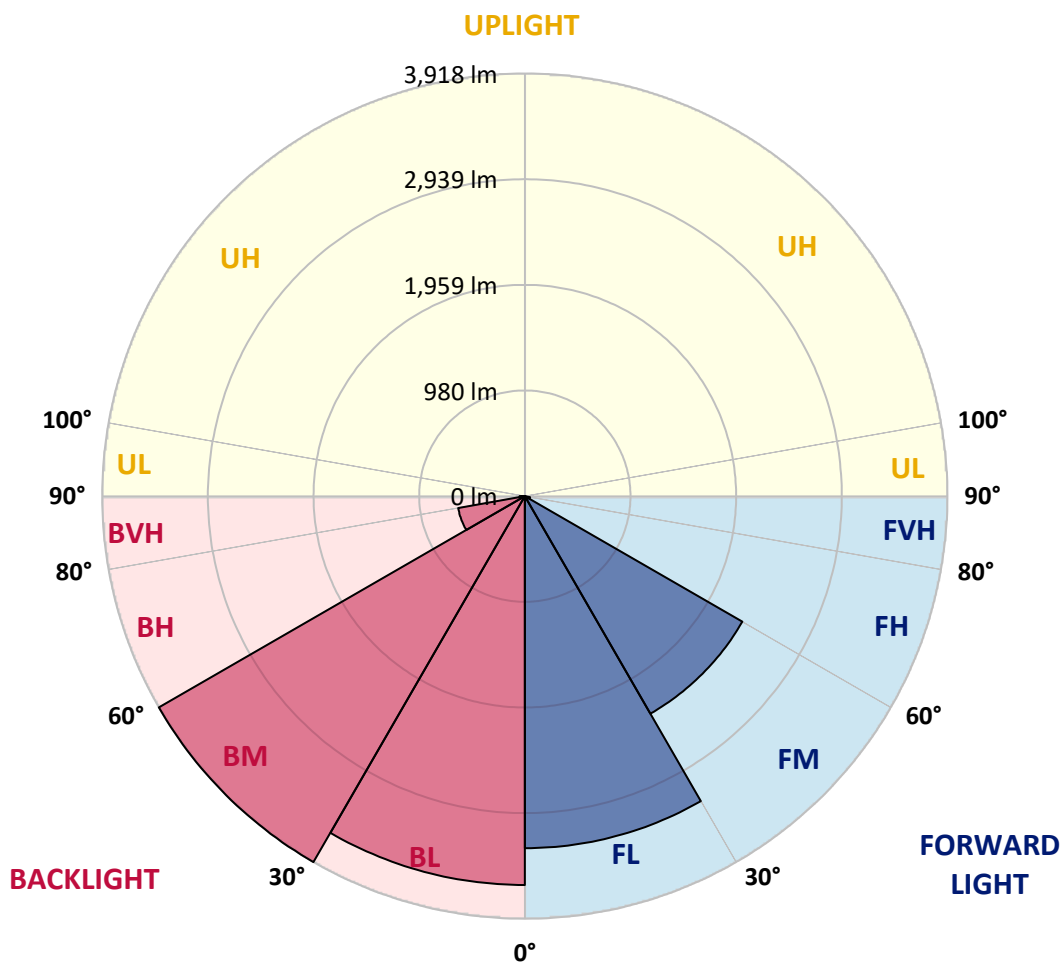
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3263.9	23.6			
FM (30°-60°)	2328.5	16.8			
FH (60°-80°)	48.8	0.4			G0/660
FVH (80°-90°)	4.2	0.0			G0/10
BL (0°-30°)	3605.5	26.0	B4/5000		
BM (30°-60°)	3918.1	28.3	B3/5000		
BH (60°-80°)	627.5	4.5	B2/1000		G2/1000
BVH (80°-90°)	48.8	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°	10536.3	10536.3	10536.3	10536.3	10536.3	10536.3	10536.3	10536.3	10536.3	10536.3
2.5°	10516.8	10530.5	10456.4	10464.2	10477.8	10577.2	10551.9	10528.5	10495.4	10551.9
5°	10503.2	10511.0	10433.0	10405.7	10417.4	10507.1	10425.2	10425.2	10417.4	10407.6
7.5°	10397.9	10401.8	10341.3	10292.6	10323.8	10364.7	10304.3	10333.5	10290.6	10323.8
10°	10239.9	10214.6	10142.5	10128.8	10163.9	10202.9	10162.0	10189.3	10150.3	10175.6
12.5°	10007.9	9968.9	9910.4	9892.9	9953.3	10006.0	9972.8	9957.2	9906.5	9968.9
15°	9113.0	9083.8	9216.3	9448.4	9657.0	9701.8	9666.7	9682.3	9577.0	9594.6
17.5°	7500.6	7446.0	7588.3	8138.1	8921.9	9335.3	9304.1	9202.7	9046.7	9081.8
20°	6816.2	6800.6	6785.0	6915.7	7463.5	8717.2	8760.1	8502.7	8280.5	8231.7
22.5°	6430.2	6424.3	6408.7	6438.0	6582.3	7387.5	7878.8	7641.0	7492.8	7479.1
25°	6077.3	6067.5	6020.7	6057.8	6057.8	6104.6	6734.3	6878.6	6748.0	6732.4
27.5°	5718.5	5701.0	5693.2	5710.7	5621.1	5305.2	5465.1	6168.9	6100.7	6104.6
30°	5330.5	5324.7	5303.2	5340.3	5063.4	4671.5	4570.1	5525.5	5539.2	5535.3
32.5°	4753.4	4778.8	4876.3	4917.2	4461.0	4137.3	3967.7	4780.7	5059.5	5053.7
35°	3453.0	3453.0	3770.8	4361.5	3909.2	3665.5	3573.8	4053.5	4585.7	4605.2
37.5°	2838.8	2848.5	2910.9	3180.0	3373.0	3287.2	3259.9	3412.0	3977.4	4008.6
40°	2554.1	2554.1	2554.1	2443.0	2437.2	2961.6	2946.0	2897.3	3435.4	3503.7
42.5°	2294.8	2300.7	2304.6	2023.8	1867.8	2560.0	2524.9	2450.8	2949.9	3029.9
45°	2027.7	2037.5	2049.2	1692.4	1624.1	1842.5	2136.9	2055.0	2470.3	2573.6
47.5°	1238.1	1253.7	1518.8	1435.0	1442.8	1421.3	1743.1	1729.4	2025.8	2172.0
50°	836.4	842.3	867.6	910.5	1238.1	1117.2	1234.2	1431.1	1538.3	1760.6
52.5°	701.9	711.6	649.3	590.8	813.0	873.5	861.8	1062.6	1105.5	1380.4
55°	493.3	524.5	495.2	489.4	462.1	678.5	653.2	816.9	844.2	1049.0
57.5°	50.7	58.5	101.4	364.6	302.2	384.1	466.0	598.6	625.9	774.0
60°	3.9	3.9	9.7	50.7	220.3	230.1	321.7	368.5	421.1	540.1
62.5°	0.0	1.9	3.9	7.8	35.1	122.8	161.8	193.0	253.5	349.0
65°	0.0	0.0	1.9	5.8	7.8	46.8	62.4	101.4	138.4	216.4
67.5°	0.0	0.0	1.9	3.9	5.8	11.7	21.4	37.0	74.1	122.8
70°	0.0	0.0	1.9	3.9	5.8	9.7	15.6	23.4	33.1	66.3
72.5°	0.0	0.0	1.9	1.9	3.9	9.7	11.7	15.6	23.4	33.1
75°	0.0	0.0	1.9	1.9	5.8	11.7	9.7	11.7	15.6	21.4
77.5°	0.0	0.0	1.9	3.9	5.8	11.7	9.7	11.7	11.7	13.6
80°	0.0	0.0	1.9	3.9	7.8	13.6	11.7	11.7	9.7	9.7
82.5°	0.0	0.0	1.9	5.8	7.8	17.5	17.5	15.6	7.8	5.8
85°	0.0	0.0	3.9	7.8	11.7	19.5	19.5	15.6	5.8	3.9
87.5°	0.0	0.0	3.9	5.8	9.7	13.6	19.5	15.6	5.8	1.9
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°
10536.3	0°	10536.3	10536.3	10536.3	10536.3	10536.3	10536.3	10536.3	10536.3	10536.3
10503.2	2.5°	10555.8	10544.1	10583.1	10598.7	10620.1	10538.3	10487.6	10489.5	10395.9
10384.2	5°	10446.6	10448.6	10499.3	10495.4	10516.8	10472.0	10452.5	10419.3	10337.4
10234.1	7.5°	10308.2	10290.6	10339.4	10376.4	10321.8	10353.0	10308.2	10323.8	10275.0
10101.5	10°	10200.9	10160.0	10204.8	10230.2	10232.1	10200.9	10158.1	10117.1	10099.6
9894.8	12.5°	9963.1	9910.4	9986.5	10021.6	10015.7	9955.3	9906.5	9916.3	9859.7
9532.2	15°	9635.5	9637.5	9692.1	9725.2	9694.0	9680.4	9684.3	9660.9	9612.1
9031.1	17.5°	9134.5	9163.7	9308.0	9387.9	9405.5	9378.2	9364.5	9337.2	9288.5
8231.7	20°	8300.0	8475.4	8732.8	8980.4	9029.2	9021.4	8972.6	8960.9	8933.6
7440.1	22.5°	7566.9	7697.5	7995.8	8381.9	8580.7	8600.2	8541.7	8524.2	8494.9
6732.4	25°	6808.4	6948.8	7217.9	7637.1	8048.5	8132.3	8122.5	8069.9	8038.7
6104.6	27.5°	6168.9	6309.3	6553.0	6931.3	7371.9	7641.0	7666.3	7582.5	7580.5
5545.0	30°	5591.8	5784.8	5970.1	6278.1	6705.1	7108.7	7151.6	7093.1	7098.9
5032.2	32.5°	5139.5	5299.3	5457.3	5663.9	6018.8	6488.7	6656.4	6601.8	6580.3
4605.2	35°	4677.4	4786.6	4948.4	5137.5	5379.3	5845.3	6135.8	6094.8	6073.4
4028.1	37.5°	4151.0	4338.1	4455.1	4667.6	4856.8	5227.2	5636.6	5630.8	5586.0
3536.8	40°	3610.9	3807.8	3985.2	4199.7	4345.9	4640.3	5094.6	5092.7	5098.5
3027.9	42.5°	3121.5	3302.8	3517.3	3751.3	3891.6	4106.1	4593.5	4620.8	4654.0
2608.7	45°	2678.9	2842.7	3041.6	3326.2	3495.9	3618.7	4051.5	4176.3	4174.4
2234.4	47.5°	2281.2	2435.2	2602.9	2879.7	3096.2	3207.3	3566.0	3743.5	3731.8
1832.7	50°	1914.6	2051.1	2226.6	2427.4	2717.9	2815.4	3082.5	3316.5	3298.9
1460.3	52.5°	1540.3	1729.4	1877.6	2060.9	2367.0	2462.5	2669.2	2897.3	2883.6
1095.7	55°	1201.0	1384.3	1563.7	1721.6	1979.0	2121.3	2269.5	2503.4	2499.5
857.9	57.5°	908.6	1109.4	1279.0	1429.1	1633.9	1809.3	1928.3	2140.8	2168.1
586.9	60°	672.7	826.7	1010.0	1177.6	1339.5	1520.8	1600.7	1809.3	1821.0
401.6	62.5°	458.2	627.8	807.2	959.3	1080.1	1267.3	1339.5	1511.0	1532.5
257.4	65°	317.8	427.0	631.7	740.9	889.1	1049.0	1121.1	1257.6	1300.5
148.2	67.5°	210.6	304.2	493.3	592.7	738.9	848.1	939.8	1050.9	1097.7
93.6	70°	115.0	224.2	352.9	467.9	594.7	700.0	789.6	879.3	920.3
42.9	72.5°	78.0	150.1	245.7	370.4	479.6	583.0	662.9	729.2	731.1
25.3	75°	39.0	101.4	187.2	286.6	374.3	475.7	547.9	586.9	540.1
15.6	77.5°	23.4	74.1	152.1	230.1	304.2	384.1	425.0	446.5	370.4
11.7	80°	13.6	52.6	118.9	183.3	210.6	282.7	321.7	327.6	247.6
7.8	82.5°	9.7	39.0	93.6	134.5	128.7	198.9	241.8	234.0	157.9
5.8	85°	5.8	27.3	58.5	83.8	78.0	130.6	140.4	144.3	91.6
3.9	87.5°	3.9	15.6	31.2	44.8	37.0	56.5	56.5	68.2	44.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
10536.3  
*10275.0*  
10317.9  
10193.1  
10021.6  
9811.0  
9563.4  
9267.0  
8871.2  
8487.1  
8005.6  
7576.6  
7069.7  
6582.3  
6044.1  
5623.0  
5098.5  
4636.4  
4178.3  
3735.7  
3314.5  
2912.9  
2509.3  
2156.4  
1838.6  
1536.4  
1290.7  
1091.8  
904.7  
713.6  
505.0  
356.8  
232.0  
146.2  
83.8  
39.0  
0.0

(END OF REPORT)