

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: P638013

Luminaire Tested: **IFLD-S-SA2A-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638013
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6185.8 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

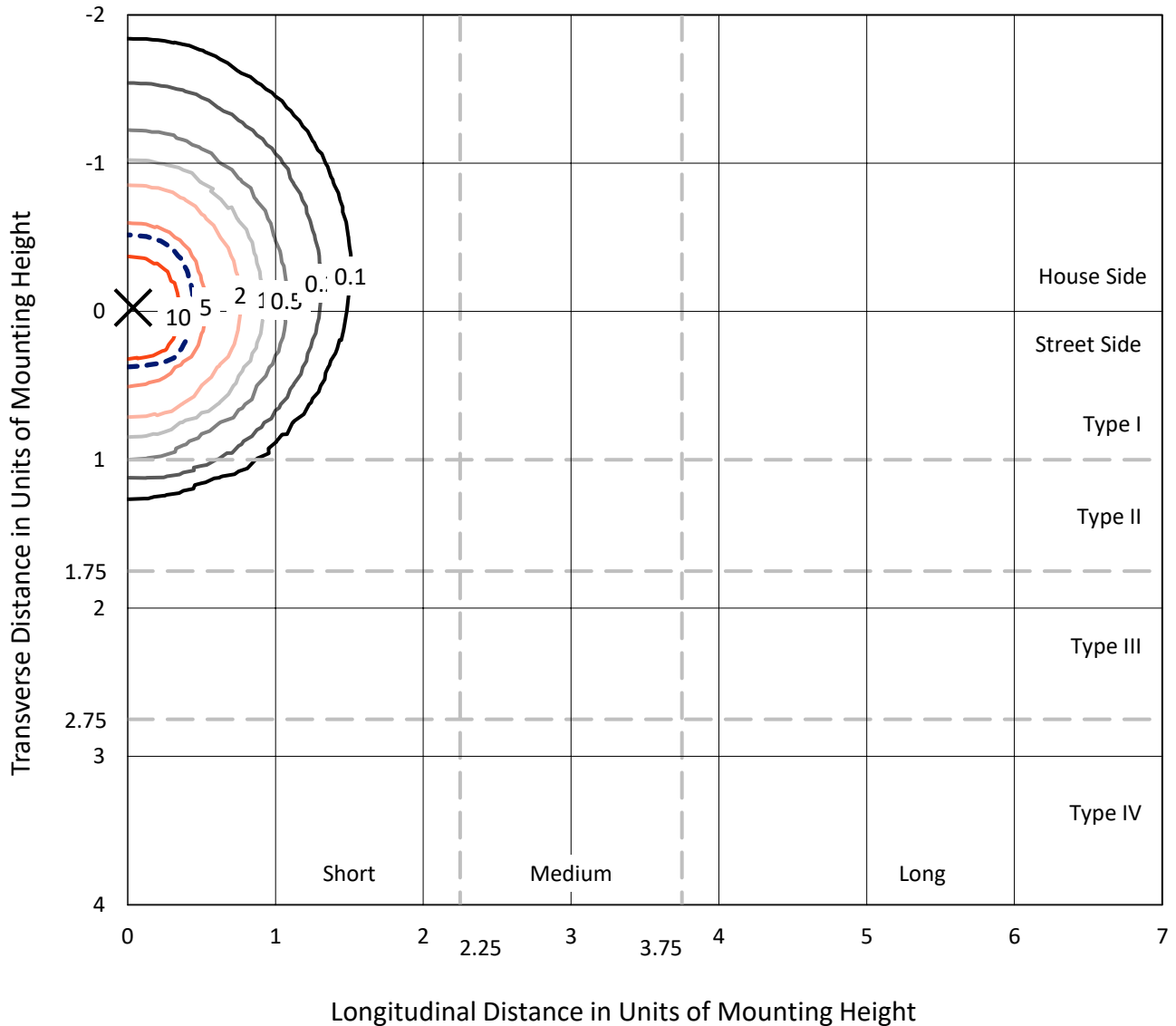
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

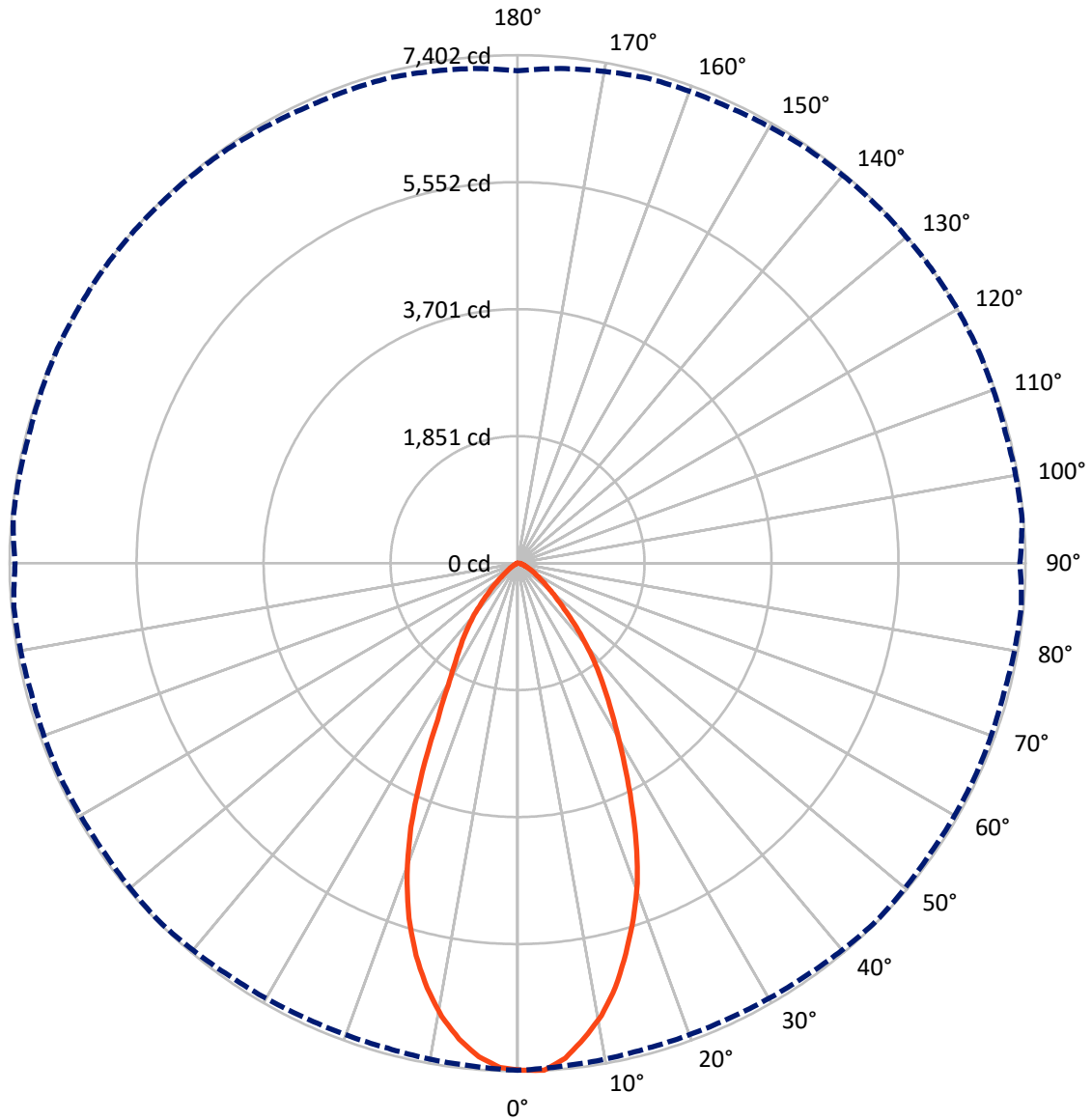
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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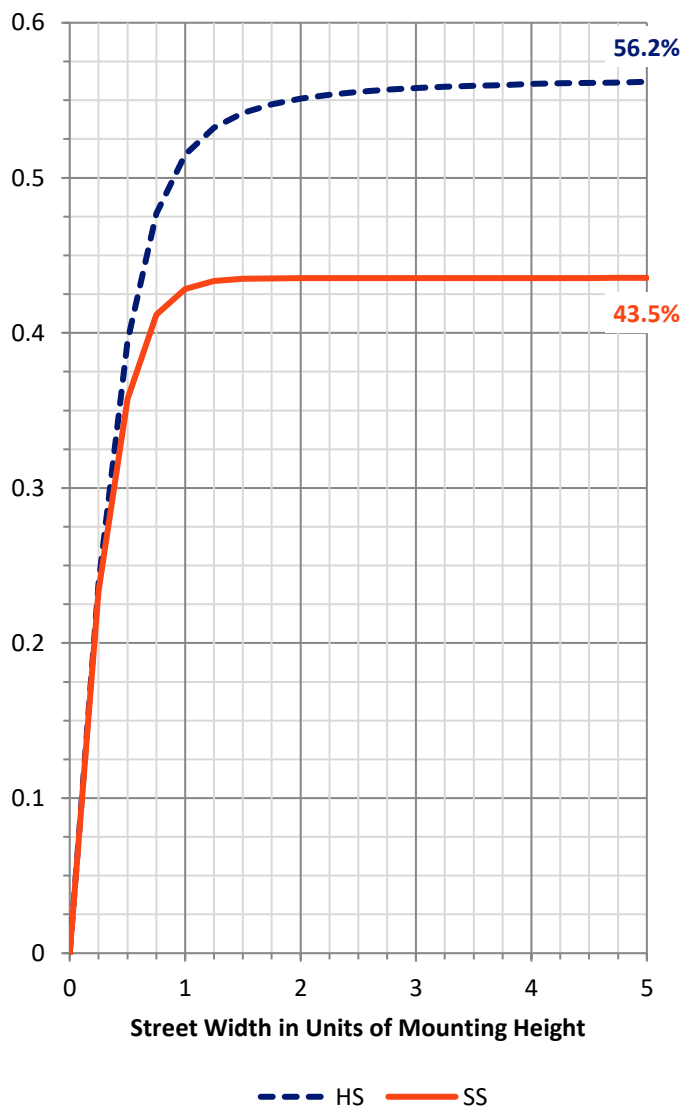
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3510.0	0.0	3510.0
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	2675.7	0.0	2675.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	6185.8	0.0	6185.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.1	10.8
10°-20°	1599.7	25.9
20°-30°	1629.3	26.3
30°-40°	1214.9	19.6
40°-50°	634.7	10.3
50°-60°	267.0	4.3
60°-70°	109.0	1.8
70°-80°	45.9	0.7
80°-90°	14.1	0.2
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°	6185.8	100.0
0°-180°	6185.8	100.0



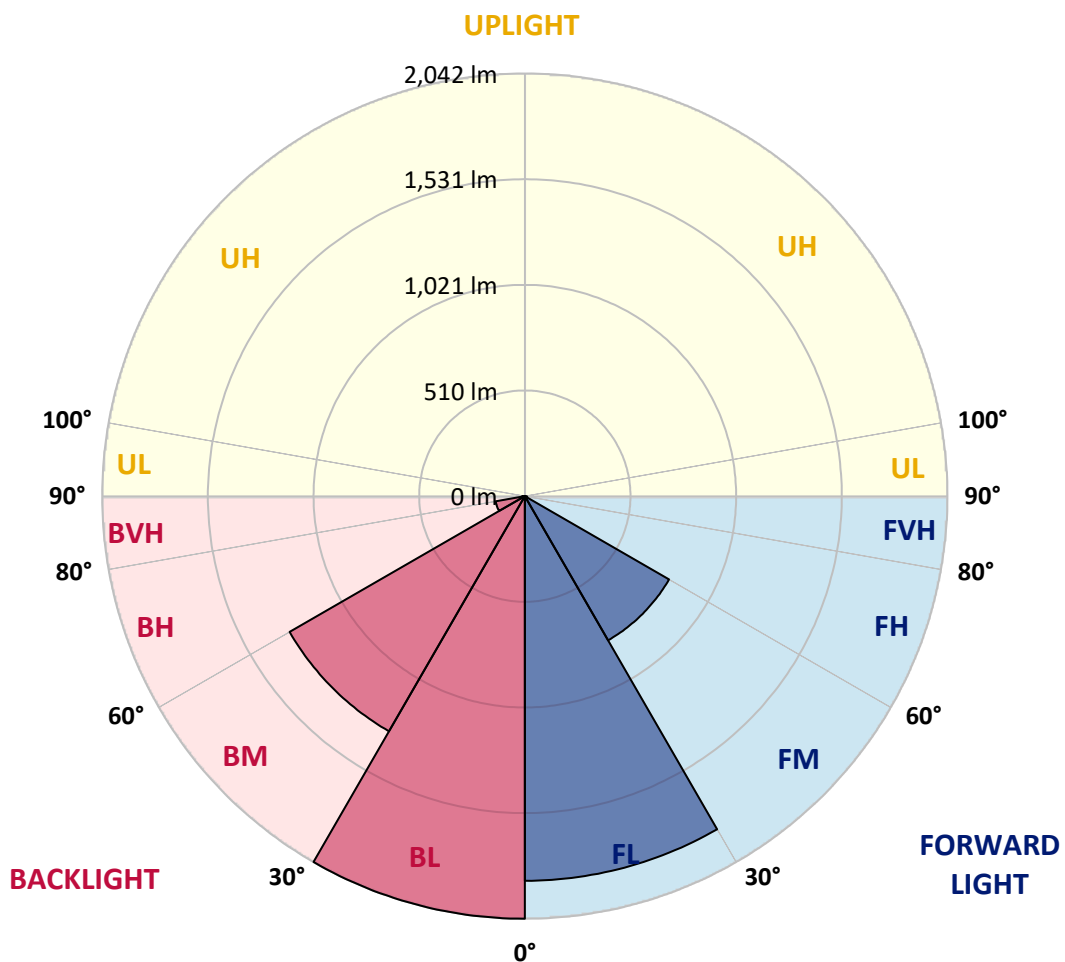
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1858.3	30.0			
FM (30°-60°)	804.5	13.0			
FH (60°-80°)	11.7	0.2			G0/660
FVH (80°-90°)	1.3	0.0			G0/10
BL (0°-30°)	2041.8	33.0	B3/2500		
BM (30°-60°)	1312.2	21.2	B2/2500		
BH (60°-80°)	143.3	2.3	B1/500		G1/500
BVH (80°-90°)	12.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7390.5	7390.5	7390.5	7390.5	7390.5	7390.5	7390.5	7390.5	7390.5	7390.5
2.5°	7391.3	7361.1	7318.2	7314.2	7336.4	7384.9	7353.9	7355.5	7336.4	7369.0
5°	7275.2	7246.6	7217.2	7178.3	7210.9	7231.5	7215.7	7198.2	7173.5	7205.3
7.5°	7055.9	7040.0	6996.3	6978.9	6998.7	7021.8	6987.6	6982.8	6948.7	6990.0
10°	6720.6	6714.3	6671.4	6661.0	6678.5	6713.5	6698.4	6695.2	6673.7	6669.8
12.5°	6372.6	6348.0	6294.7	6291.5	6317.8	6370.2	6329.7	6290.8	6302.7	6313.0
15°	5476.3	5450.1	5582.0	5789.4	5898.2	5894.3	5906.2	5859.3	5845.0	5849.8
17.5°	4353.5	4309.0	4356.7	4677.7	5195.0	5495.4	5412.7	5311.8	5257.8	5222.0
20°	3757.6	3760.0	3751.2	3833.9	4156.5	4841.4	4821.6	4626.9	4556.2	4526.8
22.5°	3395.3	3381.8	3362.7	3388.9	3475.5	3877.6	4147.0	3968.2	3943.5	3911.0
25°	3040.1	3040.1	3017.0	3043.3	3067.9	3073.5	3343.6	3416.7	3369.1	3369.1
27.5°	2732.6	2716.7	2706.4	2718.3	2685.7	2529.2	2563.3	2937.6	2905.0	2885.1
30°	2427.5	2422.7	2405.2	2421.1	2300.3	2123.9	2052.4	2479.1	2513.3	2506.1
32.5°	2004.0	2023.0	2100.9	2125.5	1918.9	1776.7	1708.4	2058.0	2194.7	2189.1
35°	1361.9	1377.8	1466.8	1760.8	1590.8	1489.1	1469.2	1636.9	1861.7	1883.2
37.5°	1084.6	1082.2	1107.7	1160.1	1278.5	1253.9	1248.3	1292.0	1518.5	1528.0
40°	893.9	890.7	889.9	847.0	817.6	1042.5	1027.4	1001.2	1197.4	1216.5
42.5°	720.7	723.9	726.3	632.5	589.6	804.1	795.4	768.4	939.2	961.5
45°	565.7	565.0	569.7	471.2	459.3	514.1	594.4	572.9	708.8	732.6
47.5°	293.2	303.5	367.9	364.7	370.3	364.7	449.7	444.2	533.2	571.3
50°	197.1	200.2	205.8	206.6	291.6	268.6	305.1	345.6	373.5	432.3
52.5°	152.6	154.9	140.6	131.9	178.8	198.6	200.2	239.2	260.6	320.2
55°	85.0	95.4	102.5	103.3	98.5	147.0	146.2	177.2	193.9	233.6
57.5°	11.1	13.5	20.7	66.7	66.0	81.8	102.5	128.7	138.3	170.8
60°	0.8	1.6	2.4	10.3	43.7	47.7	69.9	80.3	96.1	120.0
62.5°	0.0	0.0	0.8	2.4	8.7	27.8	36.6	42.1	56.4	78.7
65°	0.0	0.0	0.8	1.6	3.2	10.3	14.3	23.0	33.4	48.5
67.5°	0.0	0.0	0.8	1.6	2.4	4.0	6.4	10.3	17.5	29.4
70°	0.0	0.0	0.8	1.6	2.4	3.2	4.8	6.4	9.5	15.9
72.5°	0.0	0.0	0.8	0.8	1.6	4.0	4.0	4.8	6.4	8.7
75°	0.0	0.0	0.8	1.6	2.4	4.0	4.0	4.0	4.8	5.6
77.5°	0.0	0.0	0.8	1.6	2.4	4.0	3.2	4.0	4.0	4.0
80°	0.0	0.0	0.8	1.6	2.4	4.0	4.8	4.0	3.2	3.2
82.5°	0.0	0.0	0.8	2.4	2.4	5.6	5.6	5.6	2.4	2.4
85°	0.0	0.0	1.6	2.4	4.0	6.4	6.4	4.8	2.4	1.6
87.5°	0.0	0.0	0.8	1.6	1.6	3.2	4.8	4.0	1.6	0.8
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°
7390.5	0°	7390.5	7390.5	7390.5	7390.5	7390.5	7390.5	7390.5	7390.5	7390.5
7321.3	2.5°	7380.1	7360.3	7397.6	7402.4	7386.5	7366.6	7320.5	7316.6	7236.3
7159.2	5°	7240.3	7207.7	7231.5	7247.4	7241.9	7220.4	7201.3	7183.9	7111.6
6896.2	7.5°	6979.7	6967.7	6978.9	6990.8	7013.8	6990.8	6982.8	6964.6	6893.0
6637.2	10°	6690.4	6668.2	6710.3	6704.7	6698.4	6692.0	6658.6	6661.8	6577.6
6284.4	12.5°	6335.2	6297.9	6338.4	6343.2	6338.4	6316.2	6278.8	6294.7	6217.6
5807.6	15°	5857.7	5853.7	5883.1	5902.2	5915.7	5891.9	5879.2	5887.1	5841.0
5194.2	17.5°	5271.3	5322.9	5419.1	5451.7	5452.5	5477.1	5469.9	5460.4	5426.2
4514.8	20°	4581.6	4680.9	4828.7	4980.5	5024.2	5003.5	4994.0	5011.5	4960.6
3876.8	22.5°	3945.1	4030.1	4201.8	4423.5	4551.4	4564.1	4561.7	4546.6	4526.8
3365.9	25°	3404.8	3480.3	3644.8	3847.4	4092.9	4129.5	4131.1	4126.3	4108.8
2902.6	27.5°	2948.7	3040.1	3130.7	3311.8	3573.3	3724.2	3705.2	3699.6	3693.2
2511.7	30°	2535.5	2650.7	2735.8	2848.6	3083.0	3287.2	3307.1	3297.5	3282.4
2188.3	32.5°	2208.2	2276.5	2384.6	2460.8	2629.3	2860.5	2936.8	2929.6	2916.1
1896.7	35°	1923.7	1950.7	2035.7	2120.8	2232.8	2456.9	2569.7	2553.8	2551.4
1545.5	37.5°	1584.4	1675.0	1721.9	1807.7	1886.4	2060.4	2216.1	2209.0	2209.7
1242.7	40°	1279.3	1331.7	1424.7	1497.0	1569.3	1696.4	1869.7	1874.4	1872.8
962.2	42.5°	982.1	1033.0	1130.7	1209.4	1273.7	1352.4	1517.7	1523.2	1530.4
749.3	45°	766.8	799.4	870.9	952.7	1021.0	1068.7	1194.3	1230.0	1230.8
580.8	47.5°	595.1	632.5	683.3	762.0	828.8	862.9	954.3	1002.8	1000.4
445.8	50°	467.2	501.4	542.7	604.7	677.0	704.0	771.5	819.2	816.8
336.1	52.5°	357.6	401.3	437.8	485.5	556.2	579.3	627.7	682.6	674.6
246.3	55°	271.0	315.5	349.6	389.3	453.7	483.1	516.5	560.2	561.8
190.7	57.5°	204.2	250.3	281.3	321.8	370.3	402.9	428.3	475.2	474.4
130.3	60°	146.2	185.9	223.3	265.4	302.7	340.1	357.6	402.1	403.7
92.2	62.5°	105.7	143.0	178.8	215.3	248.7	285.3	301.1	336.1	340.9
60.4	65°	73.9	100.1	141.4	169.2	206.6	233.6	254.3	284.5	290.0
35.8	67.5°	47.7	72.3	112.0	136.7	170.8	193.9	215.3	239.2	246.3
23.0	70°	28.6	54.8	83.4	109.7	140.6	161.3	182.0	202.6	206.6
11.1	72.5°	18.3	38.1	60.4	89.0	112.8	135.1	153.4	168.5	156.5
7.2	75°	10.3	26.2	47.7	69.9	91.4	112.8	127.9	135.9	108.9
4.8	77.5°	6.4	19.1	38.9	56.4	70.7	90.6	100.1	104.9	77.9
3.2	80°	4.0	14.3	32.6	46.1	46.1	66.7	77.9	81.8	56.4
2.4	82.5°	3.2	10.3	25.4	35.0	31.0	50.1	61.2	62.0	39.7
1.6	85°	2.4	7.9	15.9	23.0	21.5	35.0	35.8	39.7	26.2
1.6	87.5°	1.6	4.8	9.5	13.5	11.9	16.7	19.1	21.5	14.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
<hr/> 7390.5
7173.5
7053.6
6878.0
6549.0
6195.4
5785.4
5375.4
4924.1
4488.6
4050.0
3655.9
3263.4
2880.4
2525.2
2184.3
1845.0
1506.5
1210.2
991.6
816.8
675.4
561.8
472.8
399.7
339.3
288.4
245.5
203.4
145.4
103.3
73.1
52.4
36.6
23.8
12.7
0.0

(END OF REPORT)