

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: P636418

Luminaire Tested: **IFLD-S-SA2A-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636418
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4836.6 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G0

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



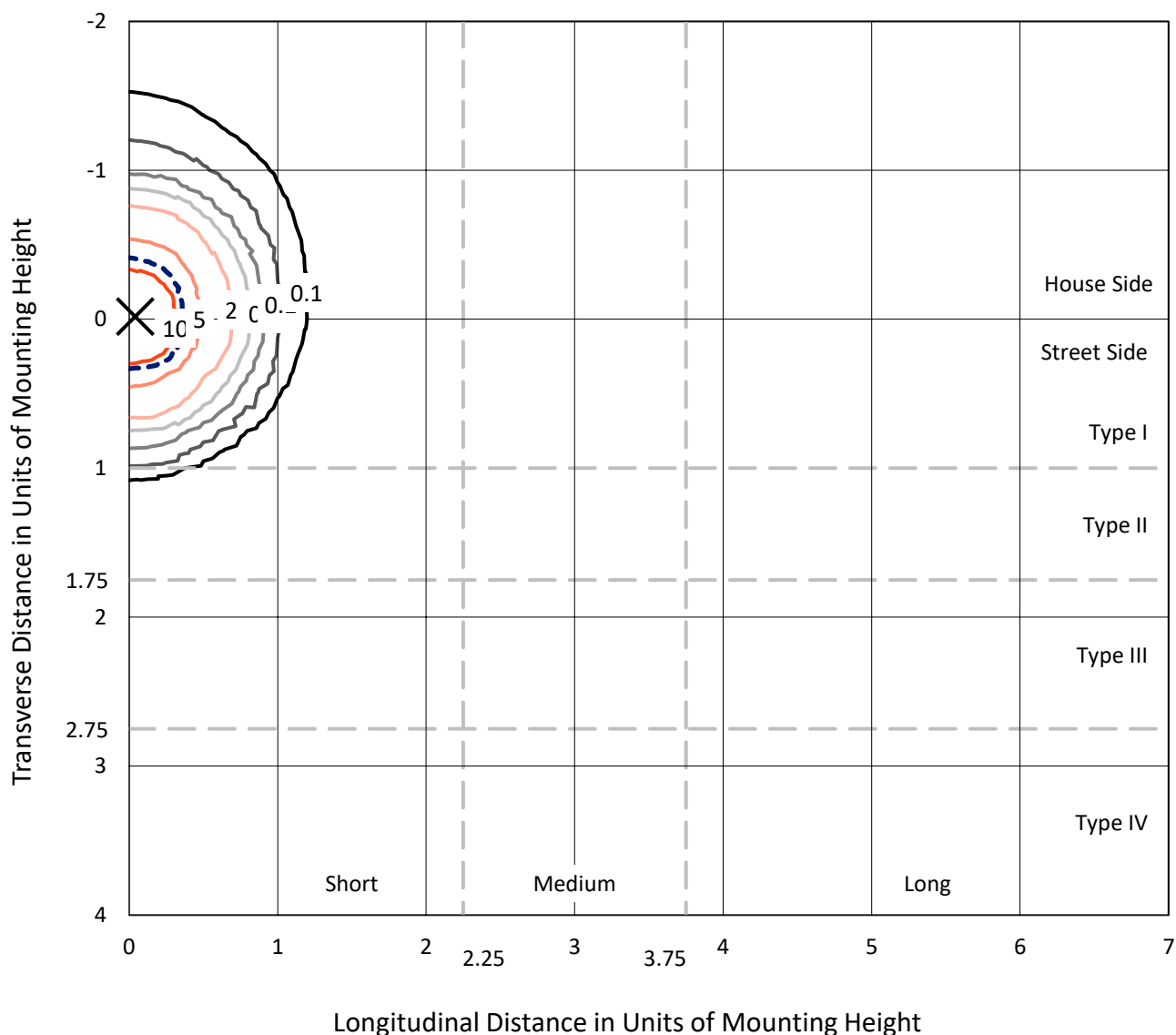
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

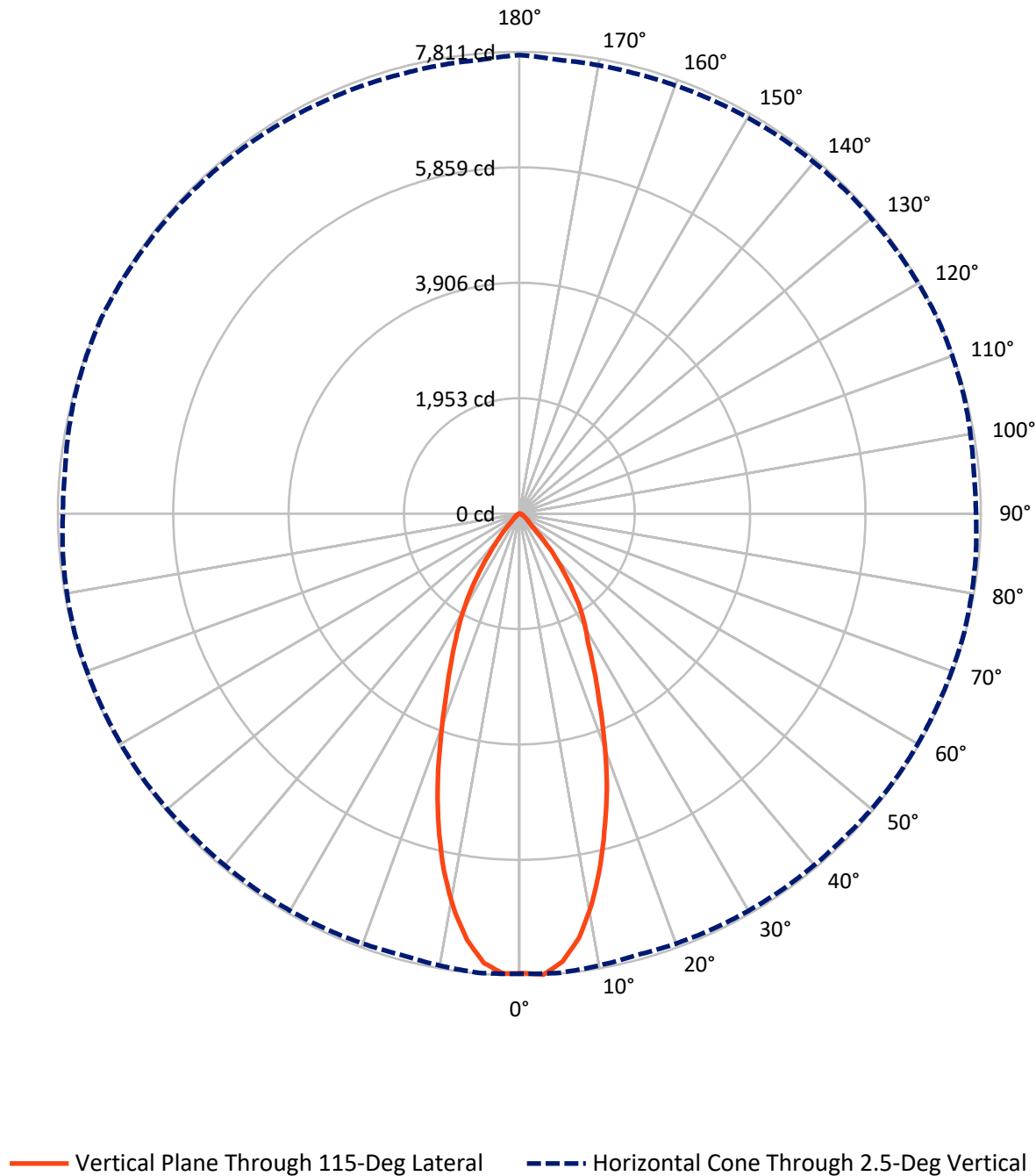


Based on 20 foot mounting height. Maximum calculated value = 19.4 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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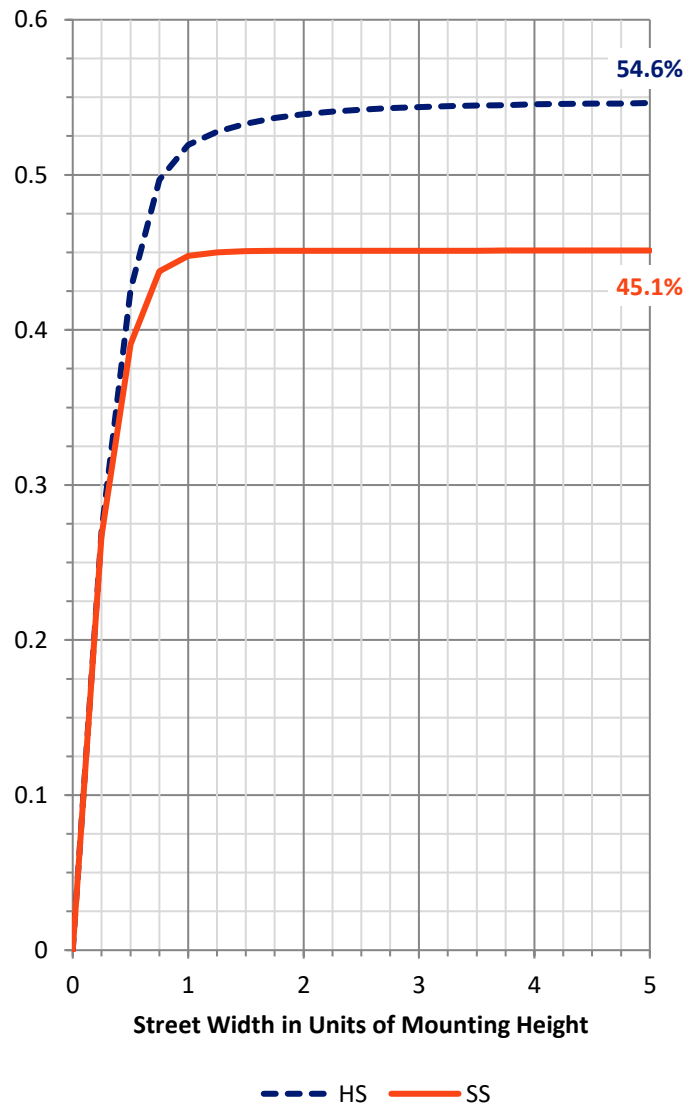
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2669.2	0.0	2669.2
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	2167.4	0.0	2167.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	4836.6	0.0	4836.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.3	14.4
10°-20°	1473.8	30.5
20°-30°	1330.2	27.5
30°-40°	880.3	18.2
40°-50°	263.7	5.5
50°-60°	105.8	2.2
60°-70°	54.8	1.1
70°-80°	23.8	0.5
80°-90°	6.9	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°	4836.6	100.0
0°-180°	4836.6	100.0

Coefficient of Utilization



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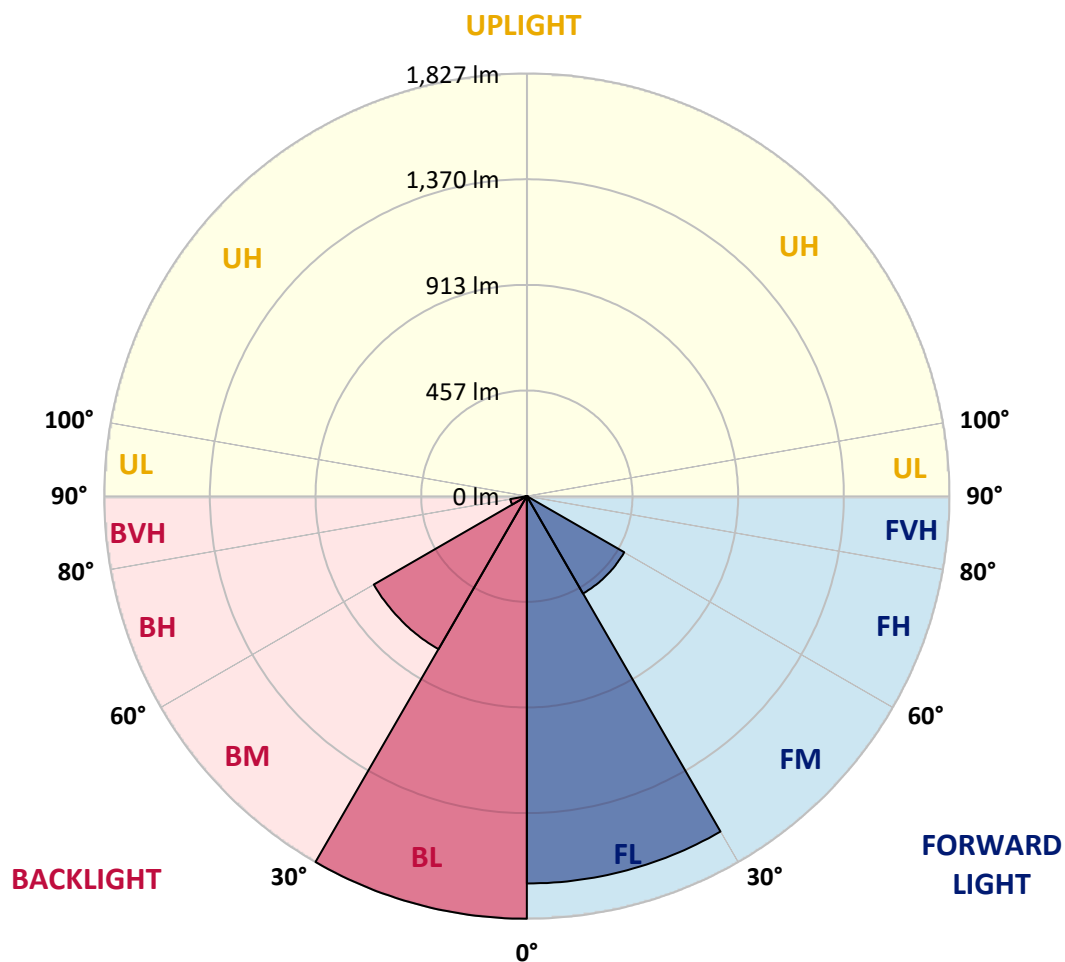
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1674.5	34.6			
FM	(30°-60°)	485.9	10.0			
FH	(60°-80°)	6.0	0.1			G0/660
FVH	(80°-90°)	1.0	0.0			G0/10
BL	(0°-30°)	1826.9	37.8	B3/2500		
BM	(30°-60°)	763.9	15.8	B1/1000		
BH	(60°-80°)	72.5	1.5	B0/110		G0/110
BVH	(80°-90°)	5.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7774.8	7774.8	7774.8	7774.8	7774.8	7774.8	7774.8	7774.8	7774.8	7774.8
2.5°	7784.7	7798.5	7729.3	7753.0	7762.9	7765.9	7790.6	7786.7	7793.6	7757.0
5°	7681.8	7655.1	7603.7	7604.7	7601.7	7574.0	7630.4	7626.4	7614.6	7571.0
7.5°	7331.7	7370.2	7273.3	7271.3	7269.3	7235.7	7309.9	7264.4	7274.3	7212.0
10°	6819.3	6824.2	6738.2	6730.2	6737.2	6693.6	6779.7	6761.9	6780.7	6715.4
12.5°	6191.2	6218.8	6123.9	6110.0	6137.7	6076.4	6145.7	6154.6	6126.9	6118.0
15°	4855.8	4929.0	5109.0	5384.0	5455.2	5403.8	5459.2	5458.2	5470.1	5402.8
17.5°	3699.5	3706.4	3663.8	3795.4	4557.1	4804.4	4816.2	4722.3	4651.0	4626.3
20°	3229.6	3253.3	3214.8	3225.7	3347.3	4072.4	4100.1	3958.6	3837.0	3827.1
22.5°	2855.7	2870.5	2842.8	2851.7	2857.7	2942.8	3424.5	3299.8	3241.5	3197.0
25°	2539.2	2539.2	2524.3	2527.3	2521.4	2395.7	2643.0	2785.5	2751.8	2736.0
27.5°	2250.3	2254.3	2235.5	2246.4	2174.2	1971.4	1941.7	2362.1	2326.5	2297.8
30°	1976.3	1989.2	1971.4	1977.3	1820.1	1653.9	1568.8	1970.4	2014.9	2007.0
32.5°	1487.7	1546.1	1689.5	1695.4	1481.8	1354.2	1316.6	1581.7	1750.8	1736.0
35°	921.9	918.9	924.9	1209.7	1136.5	1049.5	1063.3	1194.9	1385.8	1378.9
37.5°	703.3	702.3	713.2	684.5	744.8	796.3	807.2	807.2	1011.9	1012.9
40°	533.2	529.2	528.2	482.7	404.6	597.5	579.6	564.8	703.3	718.1
42.5°	340.3	352.1	343.2	293.8	264.1	326.4	364.0	352.1	434.2	445.1
45°	189.9	189.9	182.0	154.3	153.3	165.2	207.7	193.9	222.6	237.4
47.5°	92.0	90.0	98.9	121.7	126.6	122.7	148.4	154.3	168.2	182.0
50°	74.2	74.2	70.2	63.3	104.9	100.9	109.8	117.7	125.6	137.5
52.5°	62.3	62.3	57.4	53.4	60.3	77.2	78.1	93.0	92.0	108.8
55°	31.7	32.6	46.5	46.5	40.6	63.3	64.3	75.2	77.2	91.0
57.5°	3.0	4.0	5.9	28.7	31.7	34.6	48.5	55.4	64.3	70.2
60°	1.0	1.0	2.0	4.0	18.8	23.7	30.7	36.6	44.5	58.4
62.5°	0.0	0.0	1.0	2.0	4.0	14.8	16.8	18.8	26.7	36.6
65°	0.0	0.0	1.0	1.0	2.0	4.9	6.9	11.9	16.8	22.8
67.5°	0.0	0.0	1.0	1.0	2.0	3.0	4.0	5.9	7.9	14.8
70°	0.0	0.0	1.0	1.0	2.0	3.0	3.0	4.0	4.9	6.9
72.5°	0.0	0.0	1.0	1.0	2.0	4.0	3.0	3.0	4.0	4.9
75°	0.0	0.0	1.0	1.0	2.0	3.0	3.0	3.0	3.0	3.0
77.5°	0.0	0.0	1.0	1.0	2.0	3.0	3.0	3.0	2.0	2.0
80°	0.0	0.0	1.0	1.0	2.0	3.0	4.0	4.0	2.0	2.0
82.5°	0.0	0.0	1.0	2.0	2.0	4.9	5.9	4.9	2.0	1.0
85°	0.0	0.0	1.0	1.0	3.0	4.9	4.9	3.0	2.0	1.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	3.0	3.0	1.0	1.0
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°
7774.8	0°	7774.8	7774.8	7774.8	7774.8	7774.8	7774.8	7774.8	7774.8	7774.8
7727.3	2.5°	7723.4	7783.7	7811.4	7782.7	7768.9	7749.1	7720.4	7700.6	7704.6
7547.3	5°	7530.5	7593.8	7615.5	7590.8	7570.0	7559.2	7554.2	7564.1	7589.8
7185.3	7.5°	7183.3	7223.8	7247.6	7235.7	7207.0	7239.7	7248.6	7242.6	7280.2
6695.6	10°	6697.6	6742.1	6720.4	6725.3	6691.7	6708.5	6703.5	6725.3	6762.9
6111.0	12.5°	6071.5	6114.0	6097.2	6094.2	6058.6	6090.3	6070.5	6094.2	6143.7
5375.1	15°	5413.7	5440.4	5429.5	5412.7	5381.0	5391.9	5453.2	5449.3	5471.0
4611.5	17.5°	4591.7	4720.3	4790.5	4805.3	4779.6	4801.4	4844.9	4834.0	4883.5
3806.3	20°	3799.4	3928.9	4102.0	4242.5	4245.5	4248.4	4276.1	4283.1	4325.6
3198.0	22.5°	3184.1	3276.1	3462.1	3648.0	3776.6	3803.3	3800.4	3810.2	3822.1
2714.3	25°	2707.3	2774.6	2944.7	3073.3	3298.8	3374.0	3395.8	3374.0	3380.9
2287.9	27.5°	2313.6	2416.5	2472.9	2610.4	2831.0	3005.1	2998.1	2985.3	2987.3
1991.2	30°	1990.2	2101.0	2184.1	2225.6	2391.8	2643.0	2668.8	2632.2	2633.1
1729.1	32.5°	1718.2	1752.8	1875.4	1909.1	2015.9	2244.4	2332.4	2304.7	2299.8
1382.8	35°	1423.4	1442.2	1498.6	1564.9	1628.2	1801.3	1946.7	1920.9	1933.8
1016.9	37.5°	1012.9	1090.1	1144.5	1198.9	1244.4	1353.2	1528.3	1504.5	1517.4
720.1	40°	714.2	748.8	842.8	866.5	933.8	984.2	1132.6	1124.7	1140.5
447.1	42.5°	439.2	463.9	511.4	534.1	579.6	608.3	695.4	705.3	726.0
247.3	45°	249.3	260.1	292.8	317.5	351.2	363.0	393.7	407.5	419.4
191.9	47.5°	189.9	201.8	223.6	245.3	273.0	282.9	304.7	325.4	336.3
148.4	50°	155.3	166.2	188.9	206.7	234.4	243.3	261.1	283.9	297.7
112.8	52.5°	117.7	133.5	161.2	180.0	208.7	219.6	236.4	259.2	272.0
93.0	55°	96.9	108.8	133.5	159.3	186.0	200.8	211.7	239.4	253.2
76.2	57.5°	83.1	92.0	107.8	138.5	161.2	183.0	191.9	217.6	231.5
60.3	60°	63.3	77.2	91.0	114.7	140.5	163.2	173.1	195.9	206.7
43.5	62.5°	52.4	61.3	79.1	92.0	120.7	144.4	154.3	175.1	183.0
28.7	65°	36.6	49.5	66.3	74.2	100.9	123.6	137.5	153.3	161.2
16.8	67.5°	21.8	36.6	52.4	63.3	82.1	104.9	119.7	134.5	141.4
9.9	70°	13.8	28.7	41.5	53.4	64.3	86.1	103.9	116.7	113.8
5.9	72.5°	7.9	17.8	30.7	43.5	53.4	72.2	89.0	98.9	70.2
4.0	75°	4.9	12.9	25.7	35.6	43.5	57.4	73.2	75.2	43.5
2.0	77.5°	4.0	9.9	19.8	28.7	29.7	42.5	51.4	58.4	32.6
2.0	80°	2.0	7.9	16.8	23.7	18.8	29.7	39.6	45.5	25.7
1.0	82.5°	2.0	4.9	12.9	16.8	13.8	22.8	28.7	32.6	21.8
1.0	85°	1.0	4.0	6.9	9.9	9.9	14.8	12.9	15.8	13.8
1.0	87.5°	1.0	2.0	4.0	4.9	4.0	5.9	6.9	6.9	5.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
7774.8
7758.0
7643.2
7317.8
6777.7
6152.6
5476.0
4875.6
4316.7
3800.4
3370.1
2990.2
2634.1
2311.7
1945.7
1528.3
1146.4
749.8
418.4
341.3
303.7
280.9
257.2
237.4
208.7
184.0
161.2
140.5
104.9
62.3
40.6
32.6
26.7
23.7
13.8
4.9
0.0

(END OF REPORT)