

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: P636505

Luminaire Tested: **IFLD-S-SA2A-940-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636505
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-940-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5520.3 lumens
Efficiency: N/A
Efficacy: 86.5 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



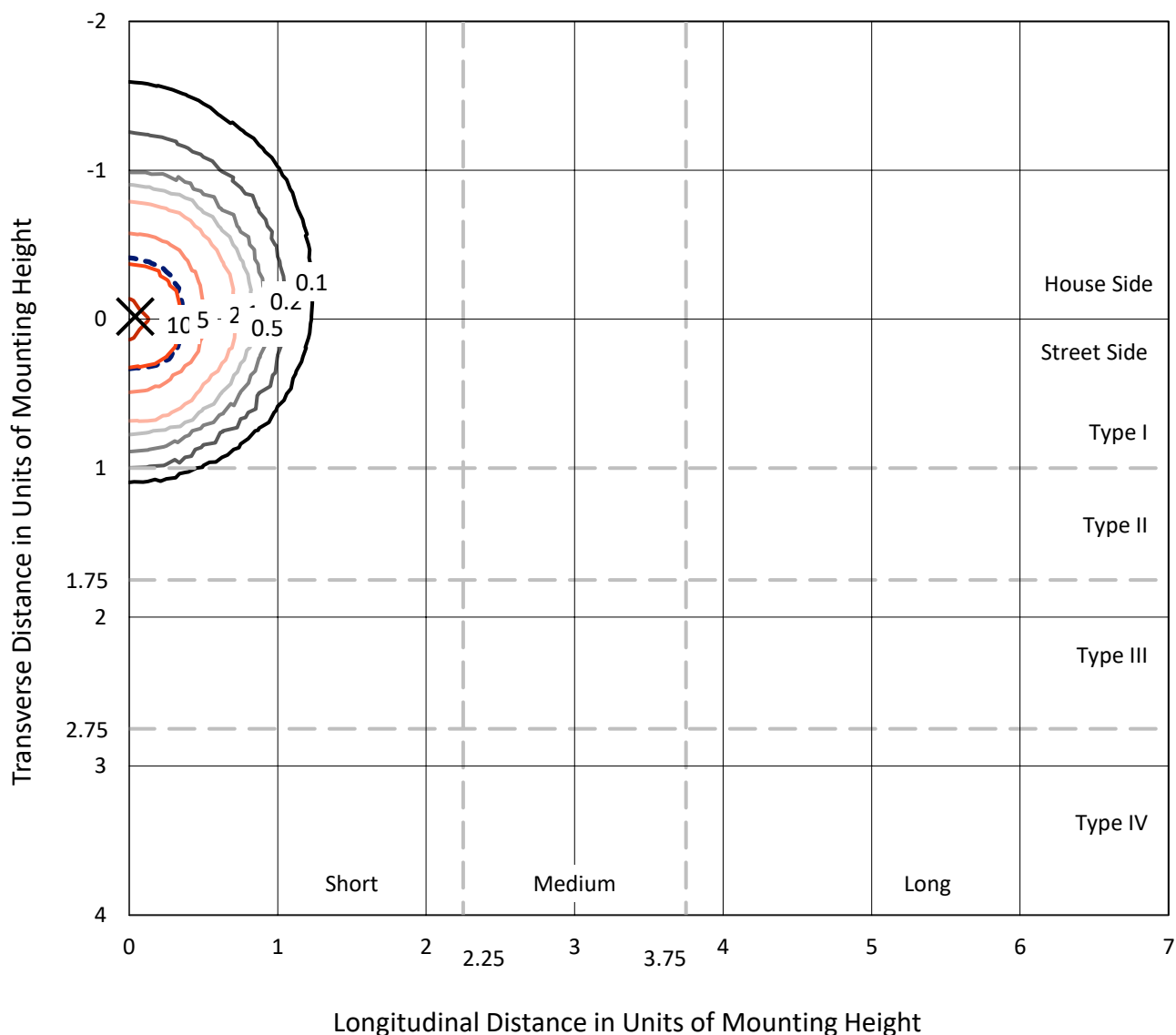
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

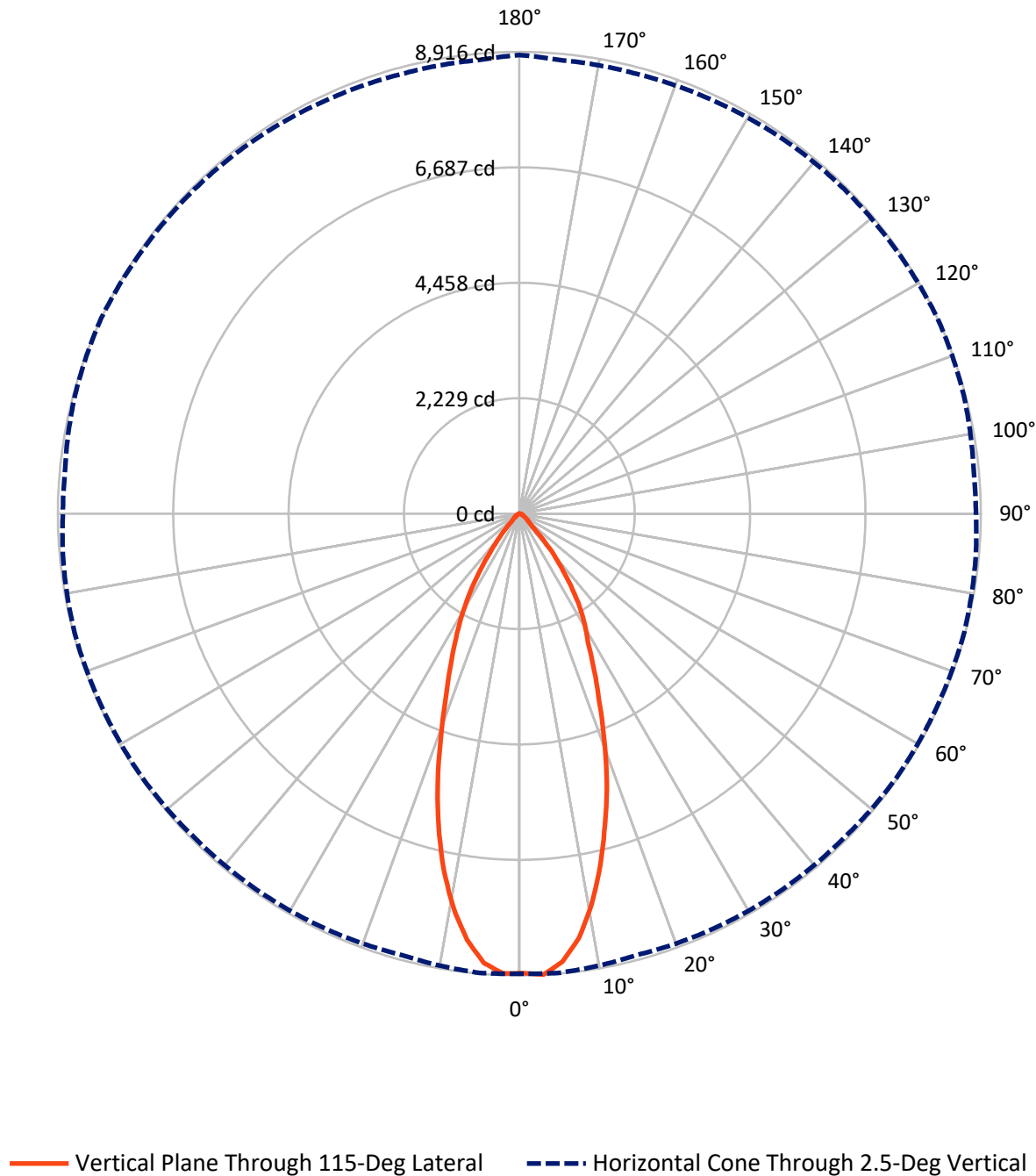


Based on 20 foot mounting height. Maximum calculated value = 22.2 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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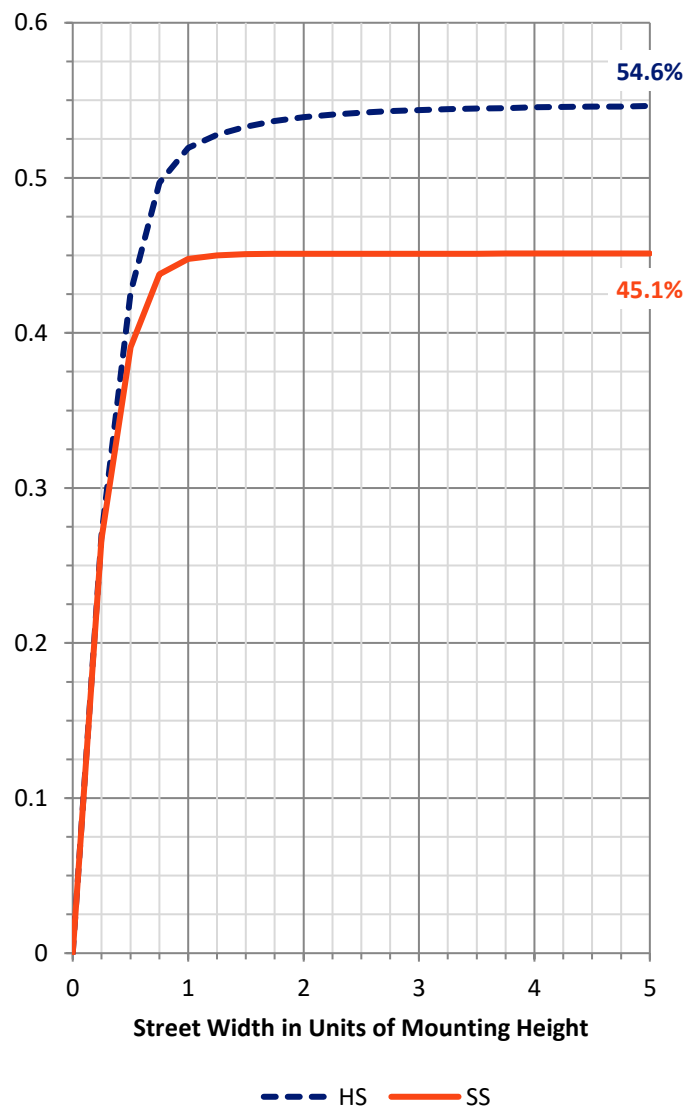
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3046.6	0.0	3046.6
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	2473.7	0.0	2473.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	5520.3	0.0	5520.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	795.9	14.4
10°-20°	1682.2	30.5
20°-30°	1518.3	27.5
30°-40°	1004.7	18.2
40°-50°	301.0	5.5
50°-60°	120.7	2.2
60°-70°	62.5	1.1
70°-80°	27.1	0.5
80°-90°	7.9	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°	5520.3	100.0
0°-180°	5520.3	100.0

Coefficient of Utilization



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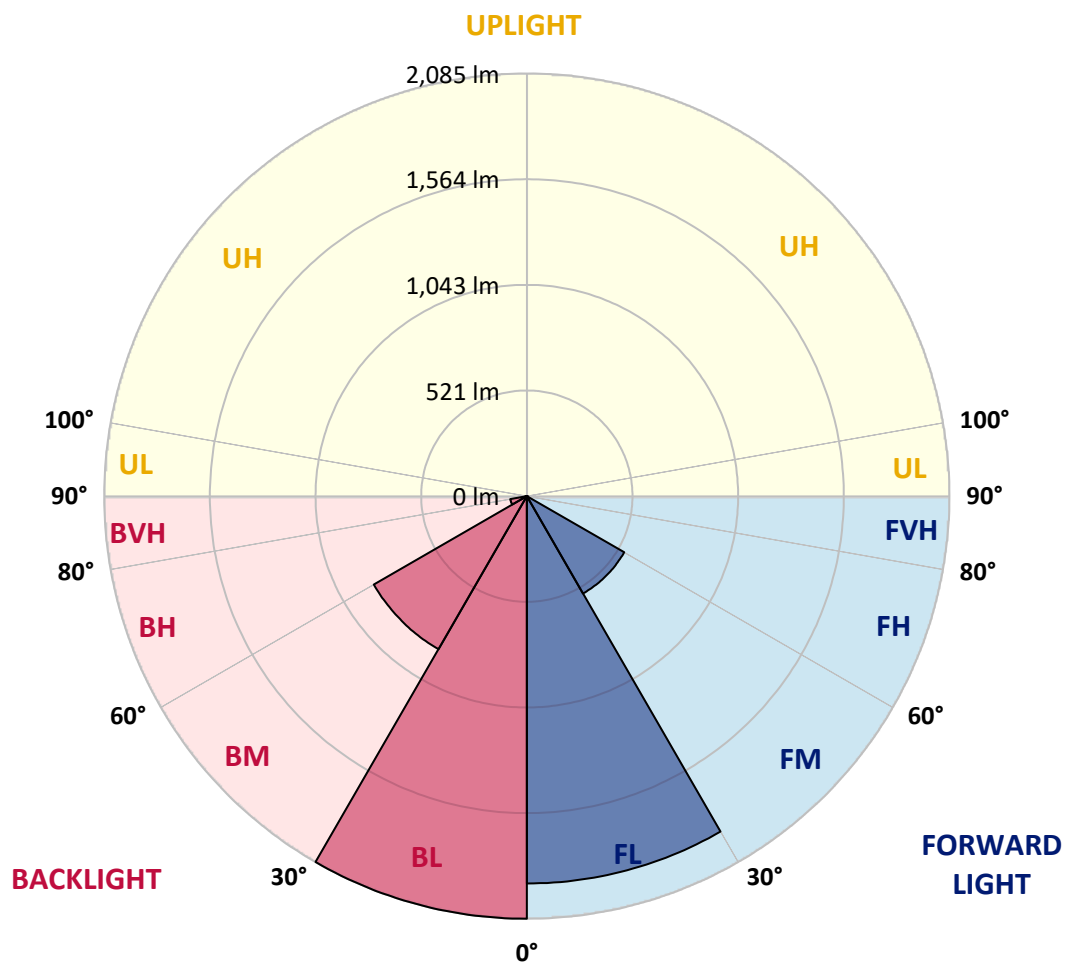
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1911.2	34.6			
FM	(30°-60°)	554.6	10.0			
FH	(60°-80°)	6.9	0.1			G0/660
FVH	(80°-90°)	1.1	0.0			G0/10
BL	(0°-30°)	2085.2	37.8	B3/2500		
BM	(30°-60°)	871.9	15.8	B1/1000		
BH	(60°-80°)	82.8	1.5	B0/110		G0/110
BVH	(80°-90°)	6.8	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°	8873.9	8873.9	8873.9	8873.9	8873.9	8873.9	8873.9	8873.9	8873.9	8873.9
2.5°	8885.2	8901.0	8822.0	8849.1	8860.4	8863.7	8892.0	8887.5	8895.4	8853.6
5°	8767.8	8737.3	8678.6	8679.7	8676.3	8644.7	8709.1	8704.6	8691.0	8641.3
7.5°	8368.1	8412.1	8301.5	8299.2	8297.0	8258.6	8343.3	8291.3	8302.6	8231.5
10°	7783.3	7788.9	7690.7	7681.7	7689.6	7639.9	7738.1	7717.8	7739.3	7664.8
12.5°	7066.4	7098.0	6989.6	6973.8	7005.4	6935.4	7014.4	7024.6	6993.0	6982.8
15°	5542.2	5625.8	5831.3	6145.1	6226.4	6167.7	6230.9	6229.8	6243.3	6166.6
17.5°	4222.4	4230.3	4181.8	4332.0	5201.3	5483.5	5497.1	5389.8	5308.5	5280.3
20°	3686.2	3713.3	3669.2	3681.7	3820.5	4648.1	4679.7	4518.2	4379.4	4368.1
22.5°	3259.4	3276.3	3244.7	3254.9	3261.7	3358.8	3908.6	3766.3	3699.7	3648.9
25°	2898.1	2898.1	2881.2	2884.6	2877.8	2734.4	3016.7	3179.3	3140.9	3122.8
27.5°	2568.5	2573.0	2551.5	2563.9	2481.5	2250.1	2216.2	2696.0	2655.4	2622.7
30°	2255.7	2270.4	2250.1	2256.9	2077.4	1887.7	1790.6	2249.0	2299.8	2290.7
32.5°	1698.0	1764.6	1928.3	1935.1	1691.2	1545.6	1502.7	1805.3	1998.3	1981.4
35°	1052.2	1048.8	1055.6	1380.8	1297.2	1197.9	1213.7	1363.8	1581.7	1573.8
37.5°	802.7	801.6	814.0	781.3	850.1	908.8	921.3	921.3	1155.0	1156.1
40°	608.5	604.0	602.9	550.9	461.8	681.9	661.6	644.7	802.7	819.7
42.5°	388.4	401.9	391.8	335.3	301.4	372.6	415.5	401.9	495.6	508.0
45°	216.8	216.8	207.7	176.1	175.0	188.5	237.1	221.3	254.0	271.0
47.5°	105.0	102.7	112.9	138.9	144.5	140.0	169.3	176.1	191.9	207.7
50°	84.7	84.7	80.2	72.3	119.7	115.2	125.3	134.4	143.4	156.9
52.5°	71.1	71.1	65.5	61.0	68.9	88.1	89.2	106.1	105.0	124.2
55°	36.1	37.3	53.1	53.1	46.3	72.3	73.4	85.8	88.1	103.9
57.5°	3.4	4.5	6.8	32.7	36.1	39.5	55.3	63.2	73.4	80.2
60°	1.1	1.1	2.3	4.5	21.5	27.1	35.0	41.8	50.8	66.6
62.5°	0.0	0.0	1.1	2.3	4.5	16.9	19.2	21.5	30.5	41.8
65°	0.0	0.0	1.1	1.1	2.3	5.6	7.9	13.5	19.2	26.0
67.5°	0.0	0.0	1.1	1.1	2.3	3.4	4.5	6.8	9.0	16.9
70°	0.0	0.0	1.1	1.1	2.3	3.4	3.4	4.5	5.6	7.9
72.5°	0.0	0.0	1.1	1.1	2.3	4.5	3.4	3.4	4.5	5.6
75°	0.0	0.0	1.1	1.1	2.3	3.4	3.4	3.4	3.4	3.4
77.5°	0.0	0.0	1.1	1.1	2.3	3.4	3.4	3.4	2.3	2.3
80°	0.0	0.0	1.1	1.1	2.3	3.4	4.5	4.5	2.3	2.3
82.5°	0.0	0.0	1.1	2.3	2.3	5.6	6.8	5.6	2.3	1.1
85°	0.0	0.0	1.1	1.1	3.4	5.6	5.6	3.4	2.3	1.1
87.5°	0.0	0.0	0.0	1.1	1.1	2.3	3.4	3.4	1.1	1.1
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°
8873.9	0°	8873.9	8873.9	8873.9	8873.9	8873.9	8873.9	8873.9	8873.9	8873.9
8819.7	2.5°	8815.2	8884.1	8915.7	8882.9	8867.1	8844.6	8811.8	8789.2	8793.7
8614.2	5°	8595.0	8667.3	8692.1	8663.9	8640.2	8627.8	8622.1	8633.4	8662.8
8201.0	7.5°	8198.8	8245.1	8272.2	8258.6	8225.9	8263.1	8273.3	8266.5	8309.4
7642.2	10°	7644.4	7695.2	7670.4	7676.0	7637.7	7656.8	7651.2	7676.0	7718.9
6974.9	12.5°	6929.8	6978.3	6959.1	6955.7	6915.1	6951.2	6928.6	6955.7	7012.2
6135.0	15°	6179.0	6209.5	6197.1	6177.9	6141.7	6154.2	6224.2	6219.6	6244.5
5263.4	17.5°	5240.8	5387.6	5467.7	5484.7	5455.3	5480.1	5529.8	5517.4	5573.9
4344.4	20°	4336.5	4484.4	4681.9	4842.3	4845.6	4849.0	4880.6	4888.6	4937.1
3650.0	22.5°	3634.2	3739.2	3951.5	4163.7	4310.5	4341.0	4337.6	4348.9	4362.4
3098.0	25°	3090.1	3166.8	3361.0	3507.8	3765.2	3851.0	3875.8	3851.0	3858.9
2611.4	27.5°	2640.7	2758.1	2822.5	2979.4	3231.2	3429.9	3422.0	3407.3	3409.6
2272.7	30°	2271.5	2398.0	2492.8	2540.2	2729.9	3016.7	3046.0	3004.3	3005.4
1973.5	32.5°	1961.1	2000.6	2140.6	2179.0	2300.9	2561.7	2662.2	2630.6	2624.9
1578.3	35°	1624.6	1646.1	1710.4	1786.1	1858.3	2055.9	2221.9	2192.5	2207.2
1160.6	37.5°	1156.1	1244.2	1306.2	1368.3	1420.3	1544.5	1744.3	1717.2	1731.9
821.9	40°	815.1	854.6	961.9	989.0	1065.8	1123.4	1292.7	1283.7	1301.7
510.3	42.5°	501.3	529.5	583.7	609.7	661.6	694.3	793.7	805.0	828.7
282.2	45°	284.5	296.9	334.2	362.4	400.8	414.3	449.3	465.1	478.7
219.0	47.5°	216.8	230.3	255.2	280.0	311.6	322.9	347.7	371.4	383.9
169.3	50°	177.3	189.7	215.6	236.0	267.6	277.7	298.1	324.0	339.8
128.7	52.5°	134.4	152.4	184.0	205.5	238.2	250.6	269.8	295.8	310.5
106.1	55°	110.6	124.2	152.4	181.8	212.3	229.2	241.6	273.2	289.0
86.9	57.5°	94.8	105.0	123.1	158.1	184.0	208.9	219.0	248.4	264.2
68.9	60°	72.3	88.1	103.9	131.0	160.3	186.3	197.6	223.5	236.0
49.7	62.5°	59.8	70.0	90.3	105.0	137.7	164.8	176.1	199.8	208.9
32.7	65°	41.8	56.4	75.6	84.7	115.2	141.1	156.9	175.0	184.0
19.2	67.5°	24.8	41.8	59.8	72.3	93.7	119.7	136.6	153.5	161.4
11.3	70°	15.8	32.7	47.4	61.0	73.4	98.2	118.5	133.2	129.8
6.8	72.5°	9.0	20.3	35.0	49.7	61.0	82.4	101.6	112.9	80.2
4.5	75°	5.6	14.7	29.4	40.6	49.7	65.5	83.5	85.8	49.7
2.3	77.5°	4.5	11.3	22.6	32.7	33.9	48.5	58.7	66.6	37.3
2.3	80°	2.3	9.0	19.2	27.1	21.5	33.9	45.2	51.9	29.4
1.1	82.5°	2.3	5.6	14.7	19.2	15.8	26.0	32.7	37.3	24.8
1.1	85°	1.1	4.5	7.9	11.3	11.3	16.9	14.7	18.1	15.8
1.1	87.5°	1.1	2.3	4.5	5.6	4.5	6.8	7.9	7.9	6.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
8873.9
8854.7
8723.7
8352.3
7735.9
7022.4
6250.1
5564.8
4926.9
4337.6
3846.5
3413.0
3006.5
2638.5
2220.7
1744.3
1308.5
855.8
477.6
389.5
346.6
320.6
293.5
271.0
238.2
210.0
184.0
160.3
119.7
71.1
46.3
37.3
30.5
27.1
15.8
5.6
0.0

(END OF REPORT)