

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: P636419

Luminaire Tested: **IFLD-S-SA2B-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636419
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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: 5981.5 lumens
Efficiency: N/A
Efficacy: 72.6 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): 82.4
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



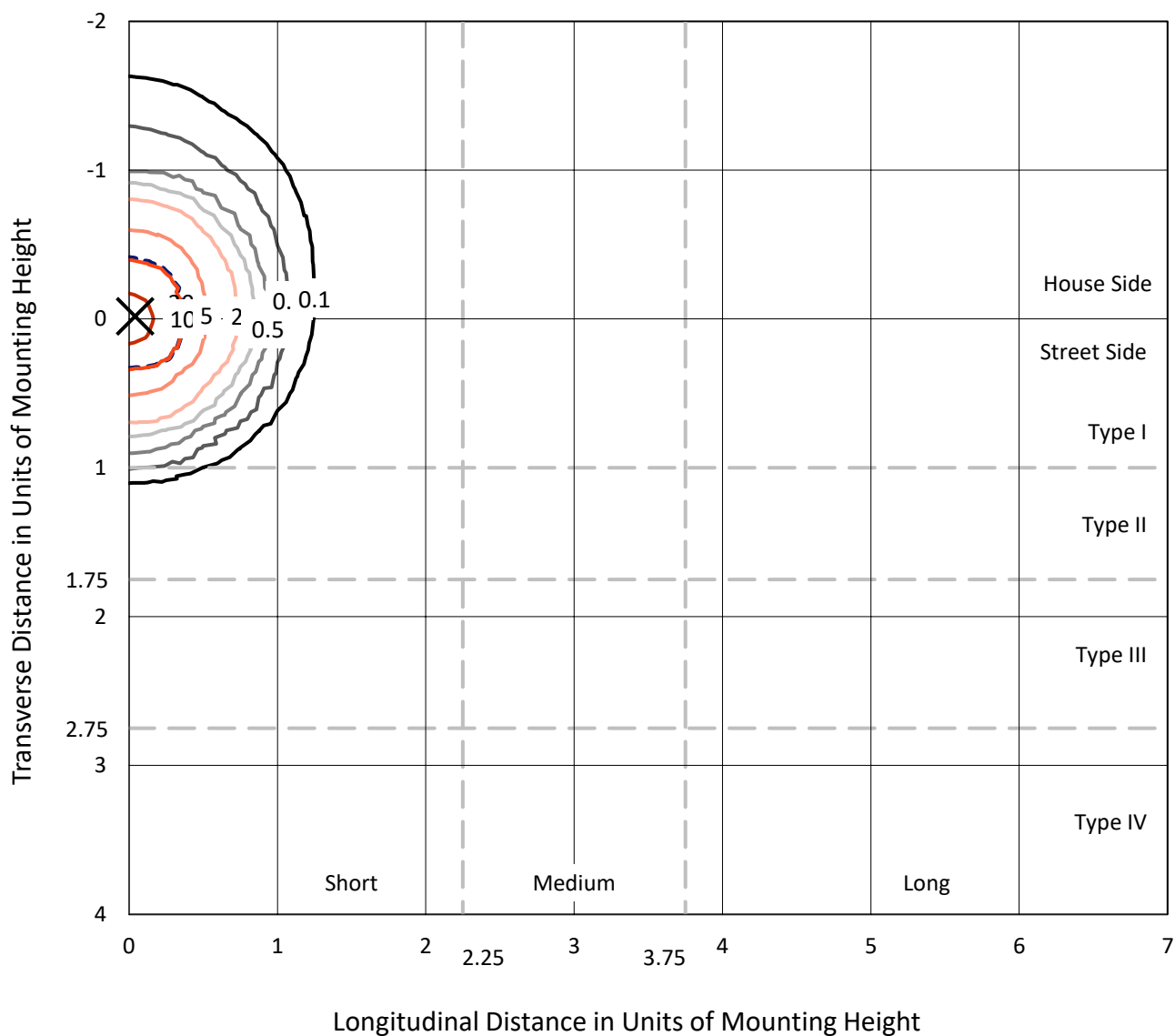
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

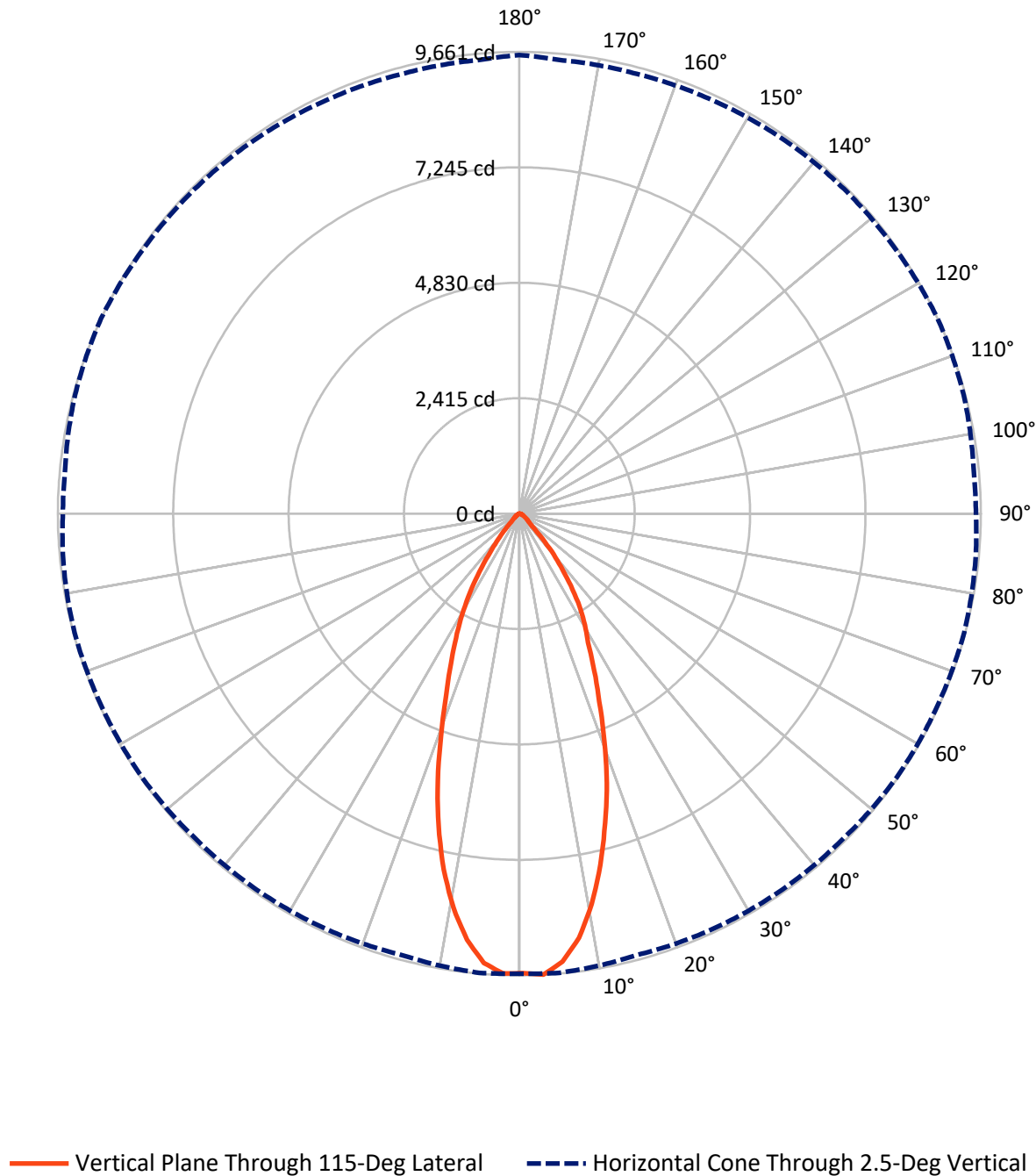


Based on 20 foot mounting height. Maximum calculated value = 24 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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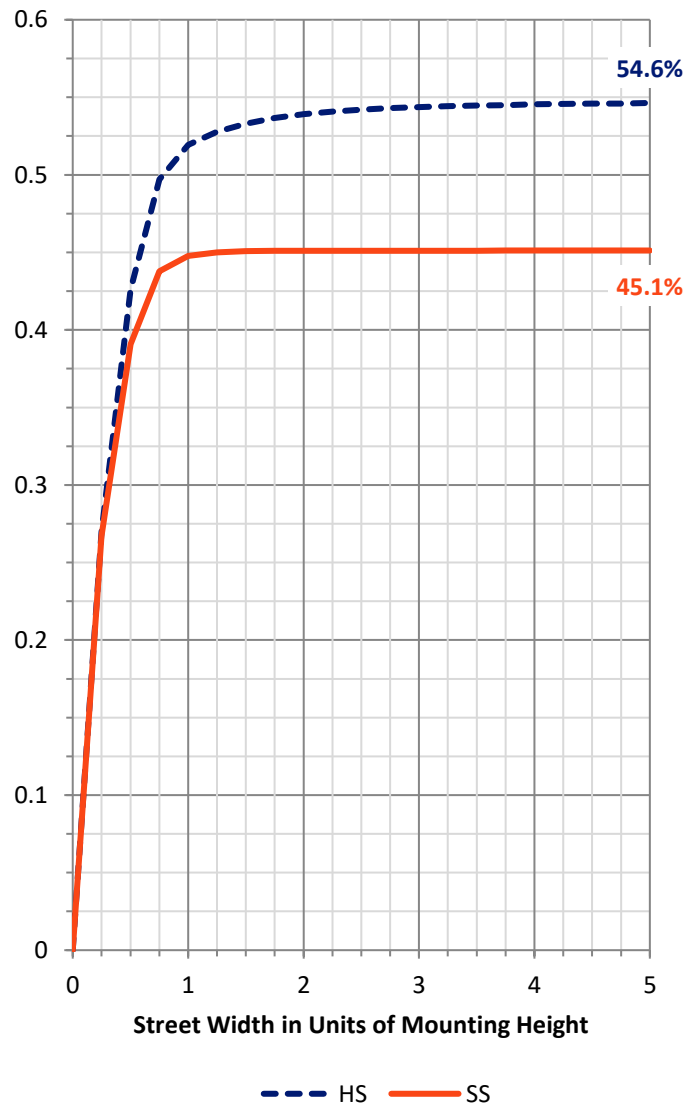
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3301.1	0.0	3301.1
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	2680.4	0.0	2680.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	5981.5	0.0	5981.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	862.4	14.4
10°-20°	1822.7	30.5
20°-30°	1645.1	27.5
30°-40°	1088.7	18.2
40°-50°	326.1	5.5
50°-60°	130.8	2.2
60°-70°	67.7	1.1
70°-80°	29.4	0.5
80°-90°	8.5	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°	5981.5	100.0
0°-180°	5981.5	100.0

Coefficient of Utilization



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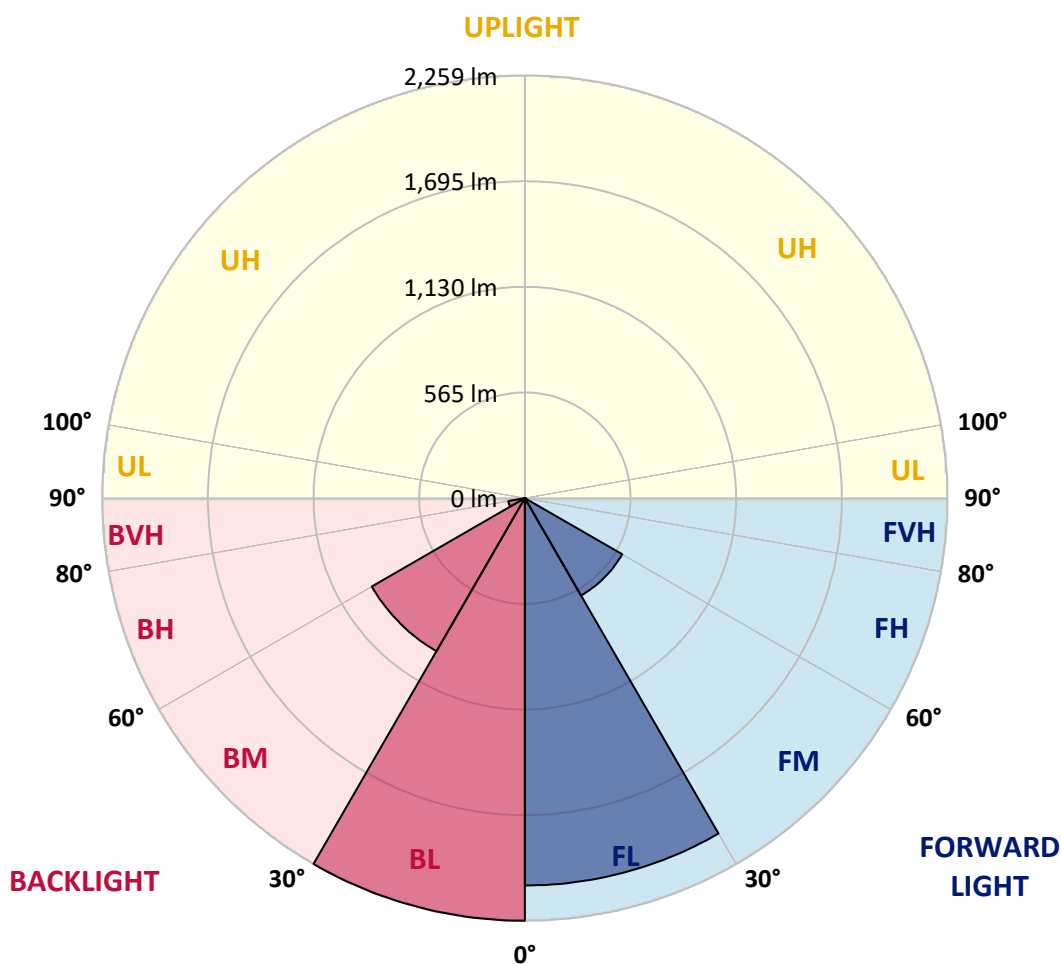
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2070.9	34.6			
FM	(30°-60°)	600.9	10.0			
FH	(60°-80°)	7.4	0.1			G0/660
FVH	(80°-90°)	1.2	0.0			G0/10
BL	(0°-30°)	2259.4	37.8	B3/2500		
BM	(30°-60°)	944.7	15.8	B1/1000		
BH	(60°-80°)	89.7	1.5	B0/110		G0/110
BVH	(80°-90°)	7.3	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°	9615.3	9615.3	9615.3	9615.3	9615.3	9615.3	9615.3	9615.3	9615.3	9615.3
2.5°	9627.6	9644.7	9559.1	9588.4	9600.7	9604.3	9634.9	9630.0	9638.6	9593.3
5°	9500.3	9467.3	9403.7	9404.9	9401.3	9367.0	9436.7	9431.8	9417.2	9363.3
7.5°	9067.3	9115.0	8995.1	8992.7	8990.2	8948.6	9040.4	8984.1	8996.3	8919.3
10°	8433.6	8439.7	8333.3	8323.5	8332.1	8278.2	8384.7	8362.6	8385.9	8305.2
12.5°	7656.8	7691.0	7573.6	7556.5	7590.7	7514.9	7600.5	7611.5	7577.3	7566.3
15°	6005.3	6095.8	6318.5	6658.6	6746.6	6683.0	6751.5	6750.3	6765.0	6681.8
17.5°	4575.2	4583.8	4531.2	4693.9	5635.9	5941.7	5956.4	5840.2	5752.1	5721.5
20°	3994.2	4023.5	3975.8	3989.3	4139.7	5036.4	5070.7	4895.7	4745.3	4733.0
22.5°	3531.7	3550.1	3515.8	3526.8	3534.2	3639.4	4235.2	4081.0	4008.8	3953.8
25°	3140.3	3140.3	3121.9	3125.6	3118.3	2962.9	3268.7	3444.9	3403.3	3383.7
27.5°	2783.1	2788.0	2764.7	2778.2	2688.9	2438.1	2401.4	2921.3	2877.3	2841.8
30°	2444.2	2460.1	2438.1	2445.4	2250.9	2045.4	1940.2	2436.9	2491.9	2482.1
32.5°	1839.9	1912.1	2089.4	2096.8	1832.5	1674.7	1628.2	1956.1	2165.3	2146.9
35°	1140.1	1136.5	1143.8	1496.1	1405.6	1297.9	1315.1	1477.8	1713.9	1705.3
37.5°	869.8	868.6	882.0	846.5	921.2	984.8	998.2	998.2	1251.5	1252.7
40°	659.4	654.5	653.3	597.0	500.3	738.9	716.9	698.5	869.8	888.1
42.5°	420.8	435.5	424.5	363.3	326.6	403.7	450.2	435.5	537.0	550.5
45°	234.9	234.9	225.1	190.8	189.6	204.3	256.9	239.8	275.2	293.6
47.5°	113.8	111.3	122.3	150.5	156.6	151.7	183.5	190.8	208.0	225.1
50°	91.7	91.7	86.9	78.3	129.7	124.8	135.8	145.6	155.4	170.0
52.5°	77.1	77.1	71.0	66.1	74.6	95.4	96.6	115.0	113.8	134.6
55°	39.1	40.4	57.5	57.5	50.2	78.3	79.5	93.0	95.4	112.5
57.5°	3.7	4.9	7.3	35.5	39.1	42.8	59.9	68.5	79.5	86.9
60°	1.2	1.2	2.4	4.9	23.2	29.4	37.9	45.3	55.0	72.2
62.5°	0.0	0.0	1.2	2.4	4.9	18.3	20.8	23.2	33.0	45.3
65°	0.0	0.0	1.2	1.2	2.4	6.1	8.6	14.7	20.8	28.1
67.5°	0.0	0.0	1.2	1.2	2.4	3.7	4.9	7.3	9.8	18.3
70°	0.0	0.0	1.2	1.2	2.4	3.7	3.7	4.9	6.1	8.6
72.5°	0.0	0.0	1.2	1.2	2.4	4.9	3.7	3.7	4.9	6.1
75°	0.0	0.0	1.2	1.2	2.4	3.7	3.7	3.7	3.7	3.7
77.5°	0.0	0.0	1.2	1.2	2.4	3.7	3.7	3.7	2.4	2.4
80°	0.0	0.0	1.2	1.2	2.4	3.7	4.9	4.9	2.4	2.4
82.5°	0.0	0.0	1.2	2.4	2.4	6.1	7.3	6.1	2.4	1.2
85°	0.0	0.0	1.2	1.2	3.7	6.1	6.1	3.7	2.4	1.2
87.5°	0.0	0.0	0.0	1.2	1.2	2.4	3.7	3.7	1.2	1.2
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°
9615.3	0°	9615.3	9615.3	9615.3	9615.3	9615.3	9615.3	9615.3	9615.3	9615.3
9556.6	2.5°	9551.7	9626.3	9660.6	9625.1	9608.0	9583.5	9548.1	9523.6	9528.5
9334.0	5°	9313.2	9391.5	9418.4	9387.8	9362.1	9348.6	9342.5	9354.8	9386.6
8886.2	7.5°	8883.8	8933.9	8963.3	8948.6	8913.1	8953.5	8964.5	8957.2	9003.7
8280.7	10°	8283.1	8338.2	8311.3	8317.4	8275.8	8296.6	8290.5	8317.4	8363.9
7557.7	12.5°	7508.8	7561.4	7540.6	7536.9	7492.9	7532.0	7507.5	7536.9	7598.1
6647.5	15°	6695.3	6728.3	6714.8	6694.0	6654.9	6668.3	6744.2	6739.3	6766.2
5703.1	17.5°	5678.7	5837.7	5924.6	5942.9	5911.1	5938.0	5991.8	5978.4	6039.6
4707.4	20°	4698.8	4859.0	5073.1	5246.8	5250.5	5254.2	5288.4	5297.0	5349.6
3955.0	22.5°	3937.9	4051.7	4281.6	4511.6	4670.7	4703.7	4700.0	4712.2	4726.9
3356.8	25°	3348.2	3431.4	3641.8	3800.9	4079.8	4172.8	4199.7	4172.8	4181.3
2829.6	27.5°	2861.4	2988.6	3058.3	3228.4	3501.2	3716.5	3707.9	3692.0	3694.4
2462.6	30°	2461.3	2598.3	2701.1	2752.5	2958.0	3268.7	3300.5	3255.3	3256.5
2138.4	32.5°	2124.9	2167.7	2319.4	2361.0	2493.1	2775.7	2884.6	2850.3	2844.2
1710.2	35°	1760.4	1783.6	1853.3	1935.3	2013.6	2227.7	2407.5	2375.7	2391.6
1257.6	37.5°	1252.7	1348.1	1415.4	1482.7	1538.9	1673.5	1890.0	1860.7	1876.6
890.6	40°	883.2	926.1	1042.3	1071.6	1154.8	1217.2	1400.7	1390.9	1410.5
552.9	42.5°	543.2	573.7	632.5	660.6	716.9	752.3	860.0	872.2	897.9
305.8	45°	308.3	321.7	362.1	392.7	434.3	449.0	486.9	504.0	518.7
237.3	47.5°	234.9	249.6	276.5	303.4	337.6	349.9	376.8	402.5	415.9
183.5	50°	192.1	205.5	233.7	255.7	289.9	300.9	323.0	351.1	368.2
139.5	52.5°	145.6	165.1	199.4	222.6	258.1	271.6	292.4	320.5	336.4
115.0	55°	119.9	134.6	165.1	197.0	230.0	248.3	261.8	296.0	313.2
94.2	57.5°	102.8	113.8	133.3	171.3	199.4	226.3	237.3	269.1	286.3
74.6	60°	78.3	95.4	112.5	141.9	173.7	201.8	214.1	242.2	255.7
53.8	62.5°	64.8	75.8	97.9	113.8	149.2	178.6	190.8	216.5	226.3
35.5	65°	45.3	61.2	82.0	91.7	124.8	152.9	170.0	189.6	199.4
20.8	67.5°	26.9	45.3	64.8	78.3	101.5	129.7	148.0	166.4	174.9
12.2	70°	17.1	35.5	51.4	66.1	79.5	106.4	128.4	144.4	140.7
7.3	72.5°	9.8	22.0	37.9	53.8	66.1	89.3	110.1	122.3	86.9
4.9	75°	6.1	15.9	31.8	44.0	53.8	71.0	90.5	93.0	53.8
2.4	77.5°	4.9	12.2	24.5	35.5	36.7	52.6	63.6	72.2	40.4
2.4	80°	2.4	9.8	20.8	29.4	23.2	36.7	48.9	56.3	31.8
1.2	82.5°	2.4	6.1	15.9	20.8	17.1	28.1	35.5	40.4	26.9
1.2	85°	1.2	4.9	8.6	12.2	12.2	18.3	15.9	19.6	17.1
1.2	87.5°	1.2	2.4	4.9	6.1	4.9	7.3	8.6	8.6	7.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
9615.3
9594.5
9452.6
9050.2
8382.2
7609.1
6772.3
6029.8
5338.6
4700.0
4167.9
3698.1
3257.7
2858.9
2406.3
1890.0
1417.8
927.3
517.5
422.0
375.6
347.4
318.1
293.6
258.1
227.5
199.4
173.7
129.7
77.1
50.2
40.4
33.0
29.4
17.1
6.1
0.0

(END OF REPORT)