

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: P636595

Luminaire Tested: **IFLD-S-SA2D-930-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636595
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-930-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7969.5 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

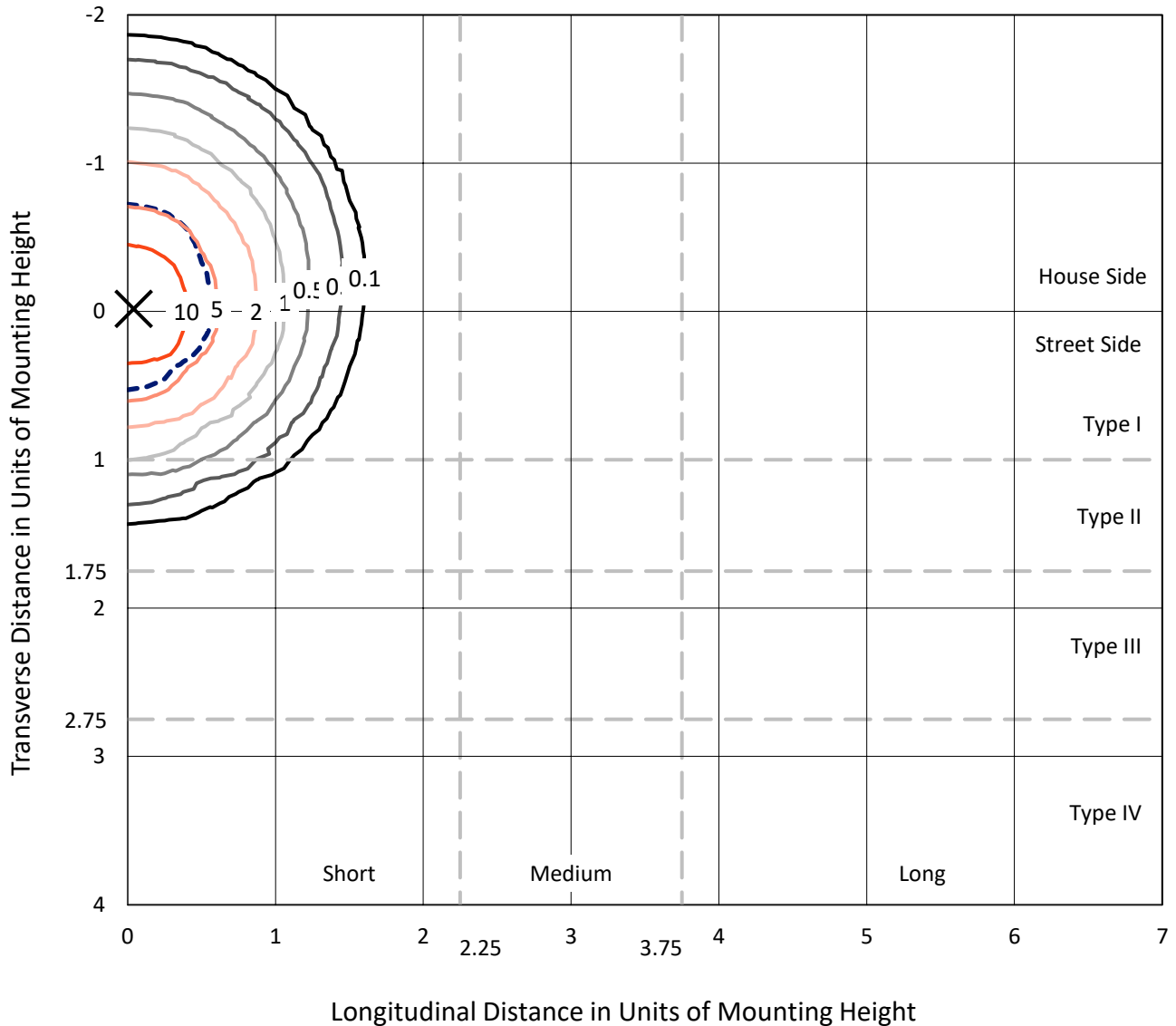
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P636595
 CATALOG NUMBER: IFLD-S-SA2D-930-U-66-VI

Iso-Footcandle Lines of Horizontal Illumination

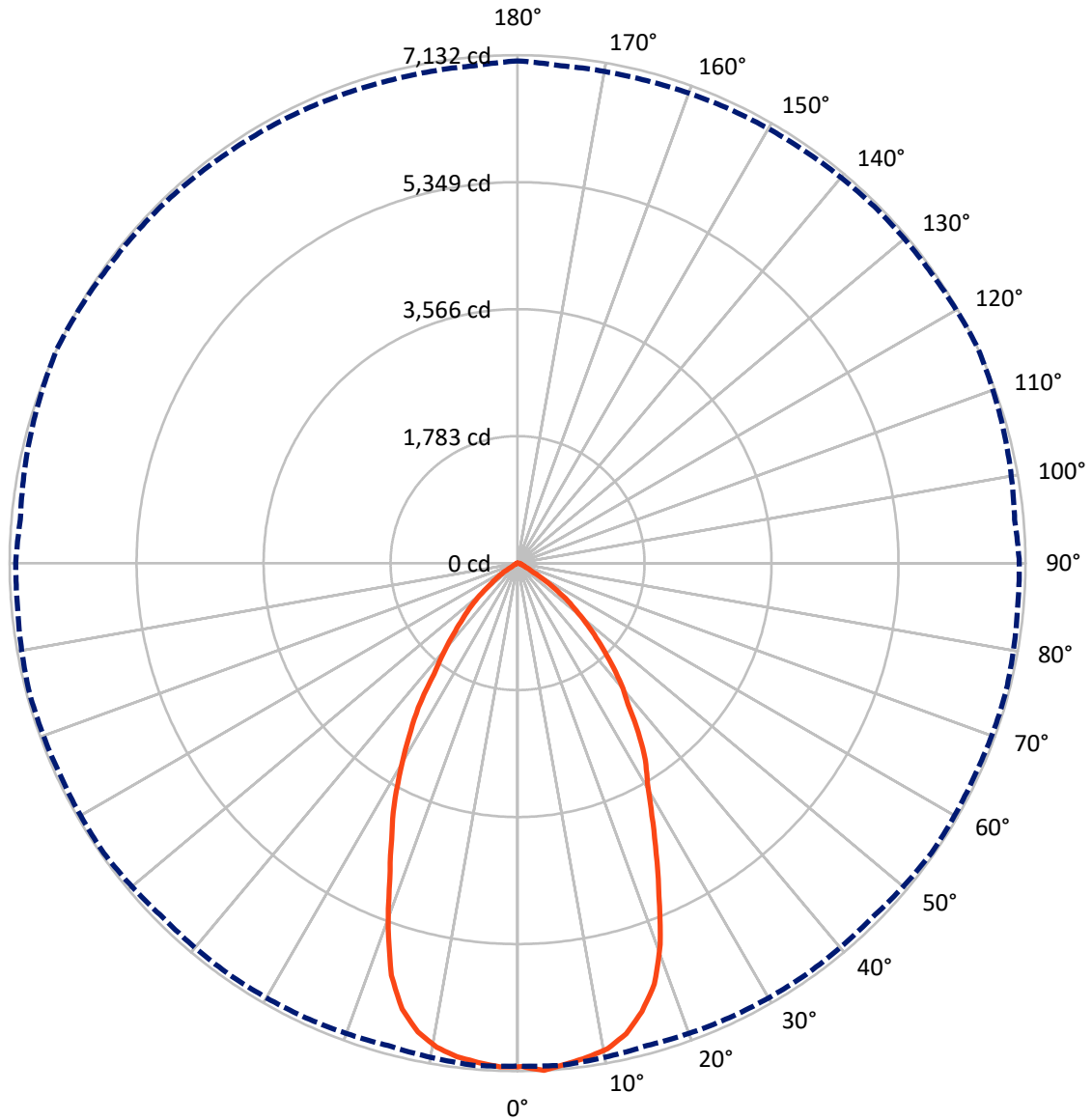
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.7 fc
 Type I - Short - N/A

REPORT NUMBER: P636595
CATALOG NUMBER: IFLD-S-SA2D-930-U-66-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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CATALOG NUMBER: IFLD-S-SA2D-930-U-66-VI

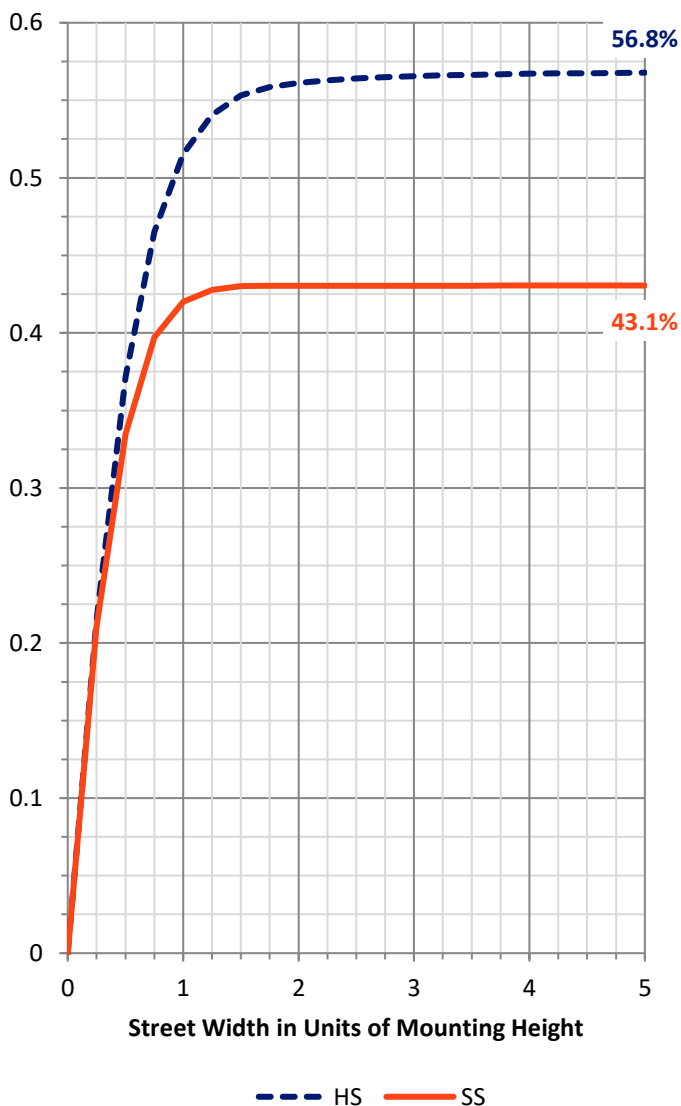
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4560.8	0.0	4560.8
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	3408.7	0.0	3408.7
	% Fixture	42.8	0.0	42.8
Total	Lumens	7969.5	0.0	7969.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.0	8.4
10°-20°	1765.9	22.2
20°-30°	2019.8	25.3
30°-40°	1730.9	21.7
40°-50°	1144.5	14.4
50°-60°	499.4	6.3
60°-70°	98.1	1.2
70°-80°	35.4	0.4
80°-90°	9.4	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°	7969.5	100.0
0°-180°	7969.5	100.0



REPORT NUMBER: P636595

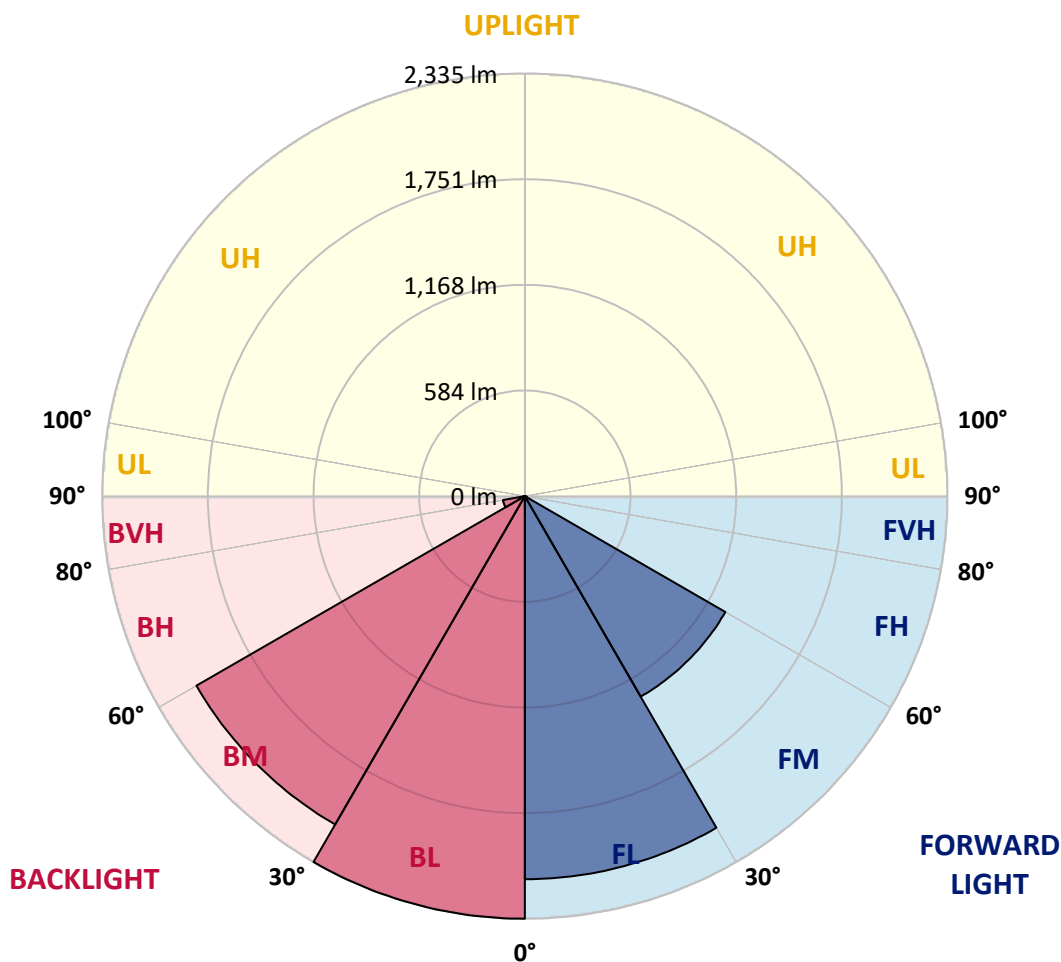
CATALOG NUMBER: IFLD-S-SA2D-930-U-66-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2116.5	26.6			
FM (30°-60°)	1279.7	16.1			
FH (60°-80°)	10.8	0.1			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	2335.1	29.3	B3/2500		
BM (30°-60°)	2095.1	26.3	B2/2500		
BH (60°-80°)	122.7	1.5	B1/500		G1/500
BVH (80°-90°)	7.9	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-G1

Type I Short





REPORT NUMBER: P636595
 CATALOG NUMBER: IFLD-S-SA2D-930-U-66-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7071.0	7071.0	7071.0	7071.0	7071.0	7071.0	7071.0	7071.0	7071.0	7071.0
2.5°	7060.8	7077.7	7013.4	7042.2	7054.0	7038.8	7094.7	7077.7	7091.3	7048.9
5°	7060.8	7077.7	7003.2	7016.7	7020.1	6991.3	7052.3	7032.0	7033.7	6989.6
7.5°	7016.7	7037.1	6969.3	6979.5	6981.2	6957.5	7010.0	6981.2	6971.0	6925.3
10°	6898.2	6910.0	6849.0	6874.4	6898.2	6876.1	6921.9	6889.7	6889.7	6849.0
12.5°	6710.1	6732.1	6664.4	6694.9	6715.2	6689.8	6742.3	6730.5	6732.1	6691.5
15°	6367.9	6291.7	6373.0	6434.0	6435.7	6430.6	6479.7	6467.9	6476.3	6415.4
17.5°	4704.4	4685.7	4780.6	5500.6	6035.9	6108.7	6117.2	6052.8	6024.0	5964.7
20°	4358.8	4372.3	4352.0	4355.4	4777.2	5653.0	5600.5	5441.3	5368.4	5309.1
22.5°	4106.4	4084.4	4070.8	4062.3	4074.2	4645.1	5022.9	4782.3	4743.3	4714.5
25°	3831.9	3821.8	3804.8	3801.4	3794.7	3698.1	4241.9	4263.9	4201.2	4165.7
27.5°	3576.1	3569.4	3550.7	3549.0	3471.1	3237.3	3296.6	3820.1	3803.1	3789.6
30°	3303.4	3289.8	3279.7	3279.7	3044.2	2803.6	2707.1	3330.5	3330.5	3318.6
32.5°	3006.9	2995.1	2998.5	2957.8	2676.6	2456.4	2303.9	2874.8	3052.7	3042.5
35°	1838.0	1834.7	2178.5	2630.9	2300.5	2100.6	2090.5	2459.8	2718.9	2746.1
37.5°	1636.5	1626.3	1631.4	1660.2	1970.2	1890.6	1887.2	1949.8	2314.1	2327.6
40°	1468.7	1462.0	1456.9	1353.5	1255.3	1687.3	1675.4	1634.8	1977.0	2000.7
42.5°	1309.5	1302.7	1302.7	1157.0	997.8	1387.4	1392.5	1345.1	1666.9	1675.4
45°	1145.2	1140.1	1111.3	923.3	877.5	921.6	1153.6	1099.4	1323.1	1411.1
47.5°	540.4	537.0	777.6	767.4	764.0	736.9	880.9	911.4	1050.3	1138.4
50°	433.7	430.3	410.0	360.8	628.5	559.0	635.3	701.3	745.4	826.7
52.5°	359.1	355.8	313.4	277.8	349.0	408.3	379.5	469.3	467.6	555.6
55°	235.5	218.5	240.6	227.0	183.0	296.5	289.7	355.8	347.3	423.5
57.5°	5.1	5.1	11.9	128.7	115.2	125.4	166.0	203.3	228.7	250.7
60°	1.7	1.7	3.4	6.8	47.4	52.5	64.4	74.5	105.0	130.4
62.5°	0.0	0.0	1.7	3.4	6.8	27.1	30.5	35.6	49.1	67.8
65°	0.0	0.0	0.0	1.7	3.4	6.8	10.2	22.0	30.5	39.0
67.5°	0.0	0.0	0.0	1.7	1.7	3.4	6.8	10.2	13.6	27.1
70°	0.0	0.0	0.0	1.7	1.7	3.4	5.1	6.8	10.2	13.6
72.5°	0.0	0.0	0.0	1.7	1.7	5.1	3.4	5.1	6.8	8.5
75°	0.0	0.0	0.0	1.7	1.7	1.7	3.4	5.1	5.1	6.8
77.5°	0.0	0.0	0.0	1.7	3.4	3.4	3.4	3.4	3.4	5.1
80°	0.0	0.0	0.0	1.7	1.7	3.4	5.1	6.8	3.4	3.4
82.5°	0.0	0.0	0.0	3.4	1.7	6.8	10.2	8.5	3.4	1.7
85°	0.0	0.0	0.0	1.7	6.8	8.5	8.5	5.1	1.7	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	5.1	5.1	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P636595
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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7071.0	0°	7071.0	7071.0	7071.0	7071.0	7071.0	7071.0	7071.0	7071.0	7071.0
7045.5	2.5°	7006.6	7072.7	7131.9	7094.7	7081.1	7054.0	7033.7	7011.7	7010.0
6984.6	5°	6945.6	7008.3	7065.9	7021.8	7025.2	7011.7	6998.1	6993.0	6996.4
6921.9	7.5°	6893.1	6945.6	7008.3	6971.0	6981.2	6972.7	6965.9	6955.8	6971.0
6840.6	10°	6813.5	6860.9	6933.7	6898.2	6893.1	6884.6	6877.8	6859.2	6867.7
6693.2	12.5°	6639.0	6698.3	6781.3	6740.6	6754.2	6730.5	6720.3	6708.4	6710.1
6437.4	15°	6401.8	6447.5	6532.2	6500.1	6510.2	6495.0	6495.0	6495.0	6506.8
5973.2	17.5°	5988.5	6081.6	6215.5	6174.8	6190.1	6193.4	6190.1	6201.9	6217.2
5312.5	20°	5315.9	5475.2	5719.1	5798.7	5830.9	5832.6	5808.9	5837.7	5868.2
4694.2	22.5°	4697.6	4865.3	5080.5	5299.0	5434.5	5427.7	5431.1	5449.8	5481.9
4143.6	25°	4162.3	4323.2	4518.0	4712.8	5009.3	5070.3	5072.0	5088.9	5114.3
3767.6	27.5°	3776.0	3838.7	4016.6	4213.1	4531.6	4726.4	4716.2	4731.5	4758.6
3296.6	30°	3310.2	3550.7	3591.4	3711.7	3986.1	4343.5	4345.2	4362.2	4389.3
3018.8	32.5°	3010.3	3169.6	3294.9	3298.3	3532.1	3899.7	3972.5	3989.5	4008.1
2730.8	35°	2729.1	2747.7	2917.2	2964.6	3100.1	3464.3	3593.1	3603.2	3633.7
2322.5	37.5°	2361.5	2471.6	2519.0	2688.5	2695.2	2990.0	3245.8	3235.6	3259.3
1999.0	40°	2024.4	2129.4	2249.7	2373.4	2390.3	2610.5	2893.4	2903.6	2913.8
1658.5	42.5°	1672.0	1805.9	1929.5	2012.5	2127.7	2254.8	2524.1	2571.6	2595.3
1421.3	45°	1446.7	1484.0	1631.4	1753.3	1870.2	1929.5	2181.9	2268.3	2283.6
1124.8	47.5°	1140.1	1265.5	1365.4	1468.7	1614.4	1666.9	1849.9	1970.2	1982.0
835.2	50°	880.9	970.7	1107.9	1201.1	1370.5	1399.3	1524.6	1680.5	1695.7
559.0	52.5°	630.2	752.2	886.0	975.8	1138.4	1175.7	1268.8	1417.9	1428.1
428.6	55°	452.3	531.9	642.0	770.8	889.4	972.4	1036.8	1179.1	1192.6
281.2	57.5°	308.3	382.9	428.6	557.3	628.5	718.3	770.8	879.2	889.4
133.8	60°	147.4	183.0	218.5	282.9	328.6	404.9	438.8	482.8	494.7
81.3	62.5°	94.9	111.8	142.3	169.4	213.5	260.9	274.4	311.7	325.3
50.8	65°	62.7	79.6	111.8	118.6	162.6	199.9	216.8	243.9	259.2
30.5	67.5°	35.6	55.9	83.0	98.3	128.7	164.3	183.0	206.7	220.2
20.3	70°	23.7	45.7	66.1	81.3	101.6	132.1	155.9	176.2	184.7
10.2	72.5°	13.6	28.8	45.7	64.4	81.3	110.1	132.1	149.1	98.3
6.8	75°	8.5	22.0	39.0	54.2	67.8	88.1	106.7	105.0	44.0
5.1	77.5°	6.8	16.9	33.9	45.7	55.9	61.0	76.2	86.4	33.9
3.4	80°	5.1	13.6	30.5	39.0	22.0	44.0	59.3	64.4	23.7
3.4	82.5°	3.4	8.5	25.4	27.1	15.2	32.2	47.4	42.4	16.9
1.7	85°	1.7	5.1	8.5	15.2	13.6	15.2	11.9	16.9	11.9
1.7	87.5°	1.7	3.4	6.8	6.8	6.8	5.1	6.8	6.8	6.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7071.0
7050.6
7038.8
7013.4
6908.3
6759.3
6511.9
6268.0
5888.5
5487.0
5158.4
4784.0
4436.7
4050.5
3665.9
3288.1
2945.9
2629.2
2320.8
2010.8
1717.8
1446.7
1204.5
909.7
508.2
328.6
259.2
218.5
183.0
79.6
44.0
33.9
25.4
16.9
11.9
6.8
0.0

(END OF REPORT)