

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: P636658

Luminaire Tested: **IFLD-S-SA3D-940-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636658
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-940-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13409.5 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

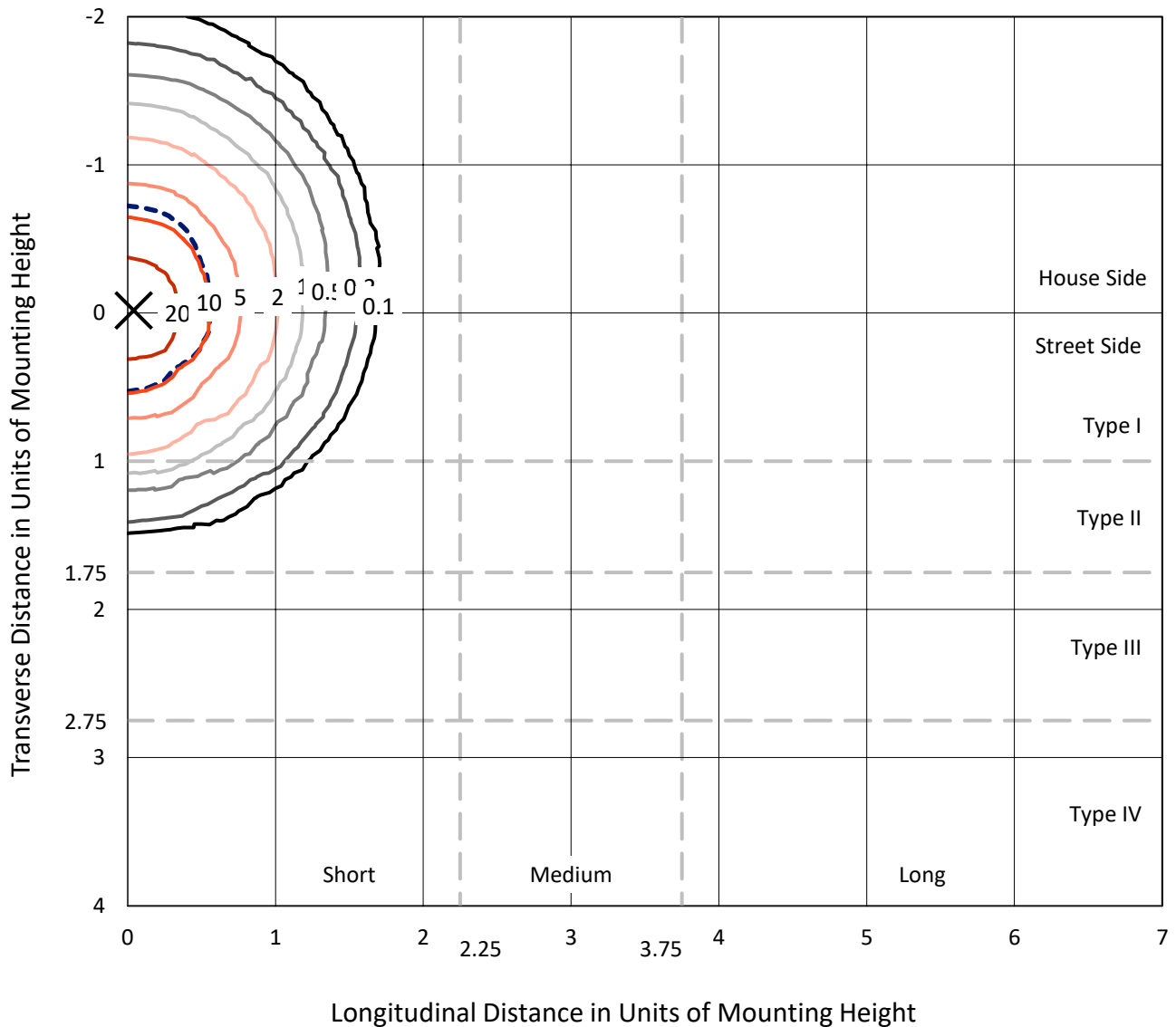
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

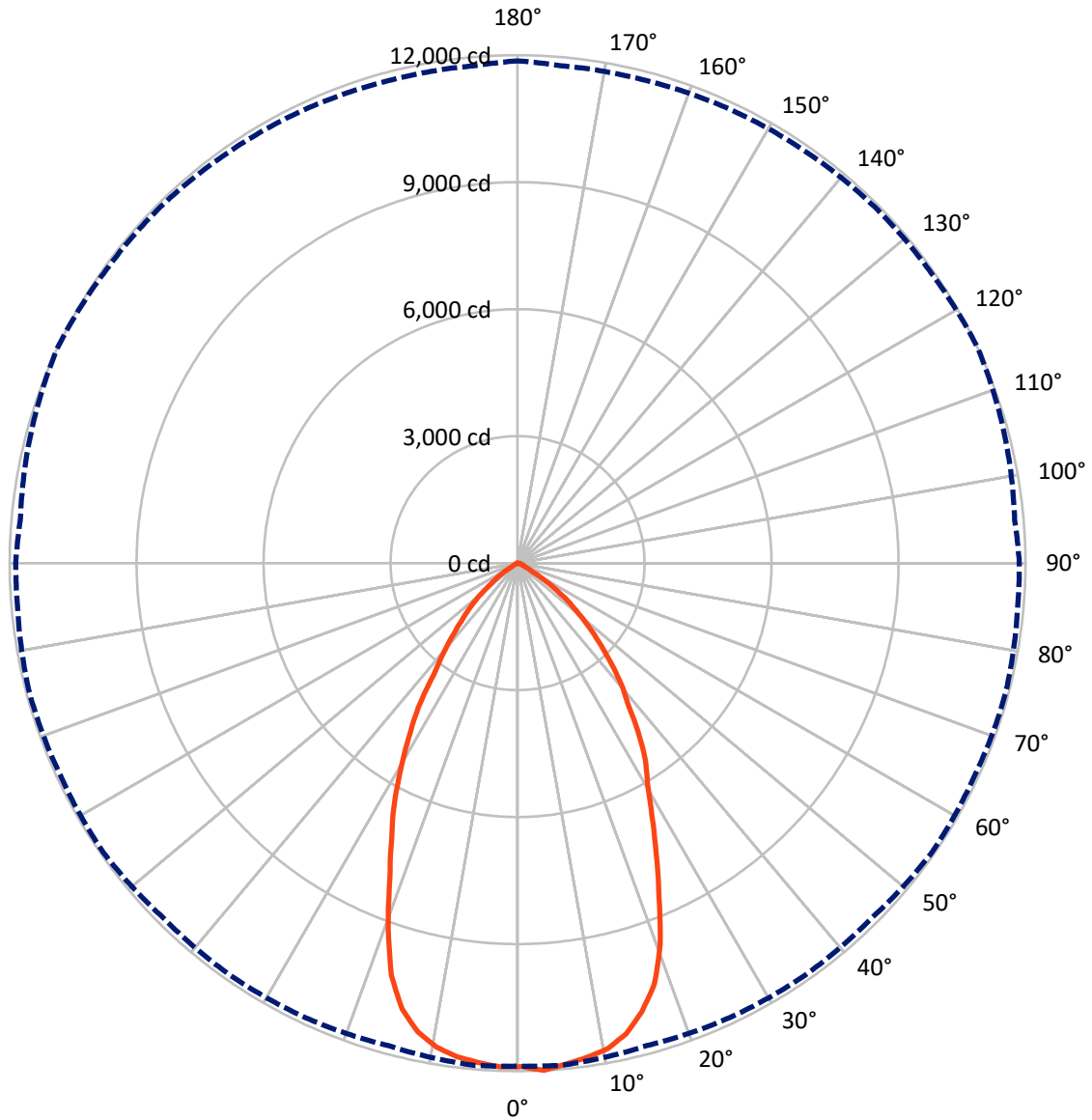
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 29.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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

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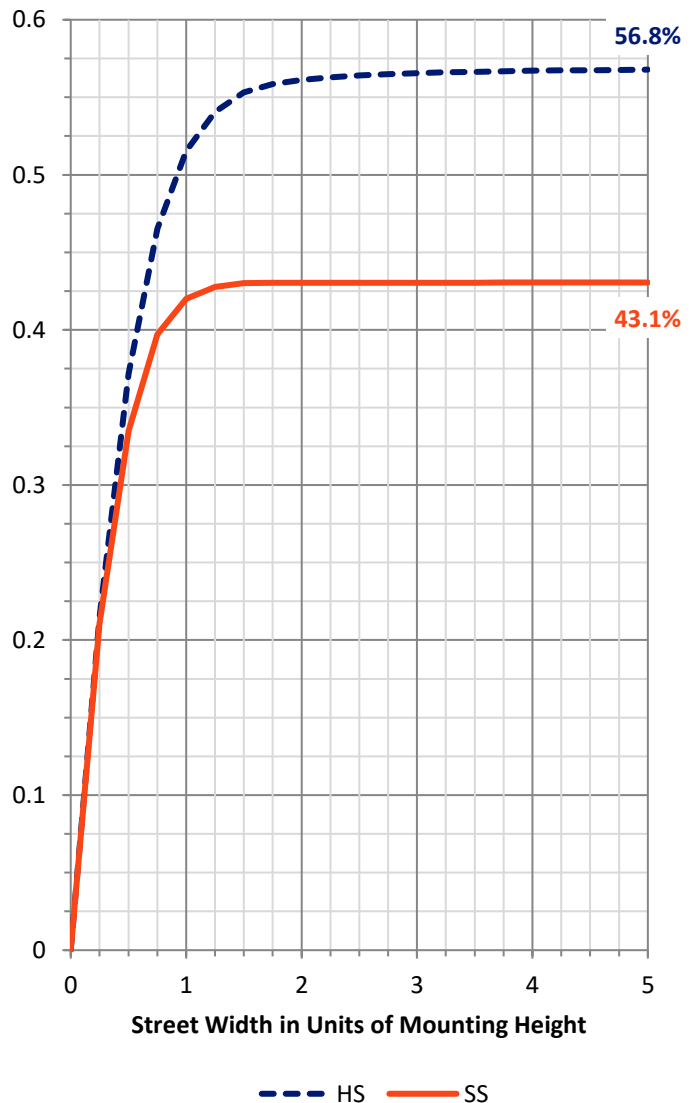
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7674.1	0.0	7674.1
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	5735.4	0.0	5735.4
	% Fixture	42.8	0.0	42.8
Total	Lumens	13409.5	0.0	13409.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1120.6	8.4
10°-20°	2971.3	22.2
20°-30°	3398.5	25.3
30°-40°	2912.4	21.7
40°-50°	1925.8	14.4
50°-60°	840.3	6.3
60°-70°	165.1	1.2
70°-80°	59.6	0.4
80°-90°	15.9	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°	13409.5	100.0
0°-180°	13409.5	100.0



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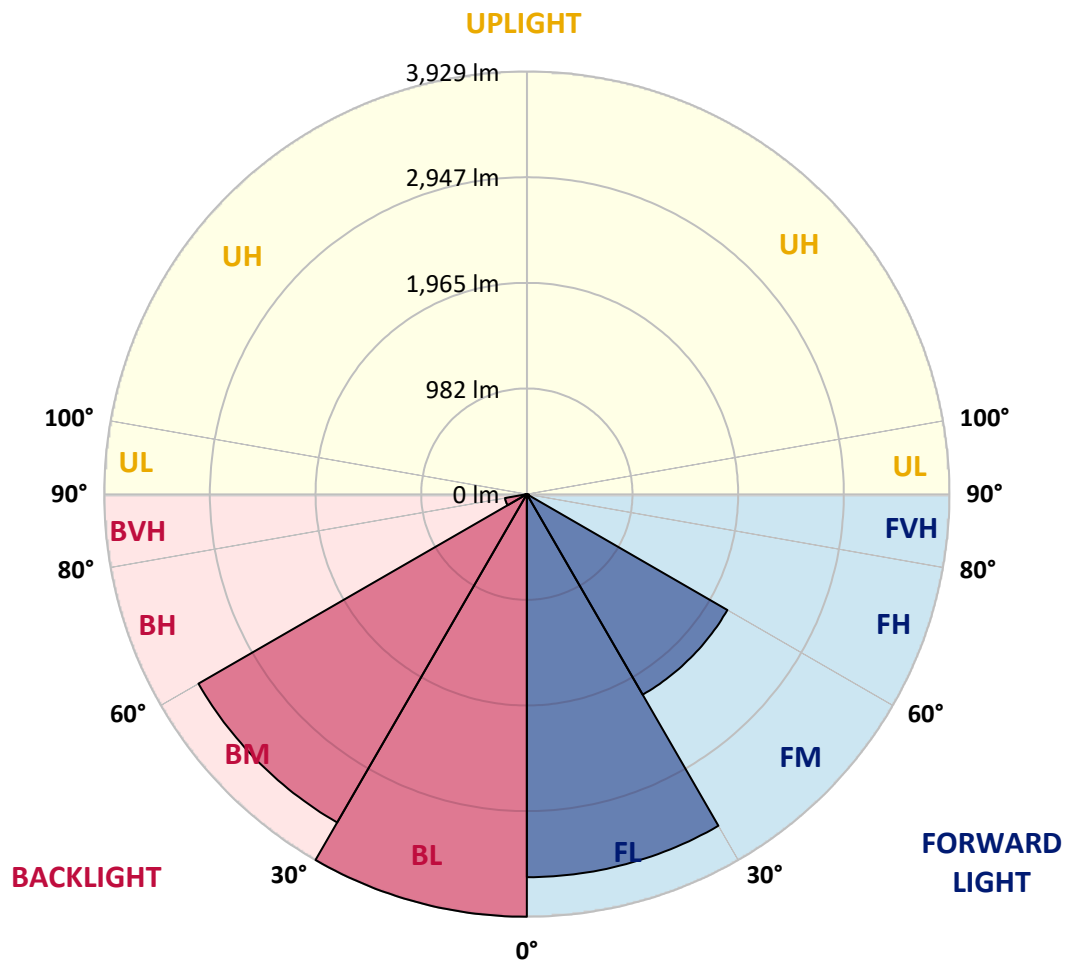
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3561.3	26.6			
FM (30°-60°)	2153.3	16.1			
FH (60°-80°)	18.3	0.1			G0/660
FVH (80°-90°)	2.6	0.0			G0/10
BL (0°-30°)	3929.1	29.3	B4/5000		
BM (30°-60°)	3525.3	26.3	B3/5000		
BH (60°-80°)	206.4	1.5	B1/500		G1/500
BVH (80°-90°)	13.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11897.6	11897.6	11897.6	11897.6	11897.6	11897.6	11897.6	11897.6	11897.6	11897.6
2.5°	11880.5	11909.0	11800.7	11849.1	11869.1	11843.4	11937.5	11909.0	11931.8	11860.5
5°	11880.5	11909.0	11783.6	11806.4	11812.1	11763.6	11866.2	11832.0	11834.9	11760.8
7.5°	11806.4	11840.6	11726.6	11743.7	11746.5	11706.6	11795.0	11746.5	11729.4	11652.5
10°	11606.9	11626.8	11524.2	11566.9	11606.9	11569.8	11646.8	11592.6	11592.6	11524.2
12.5°	11290.5	11327.5	11213.5	11264.8	11299.0	11256.3	11344.6	11324.7	11327.5	11259.1
15°	10714.7	10586.4	10723.2	10825.8	10828.7	10820.1	10902.8	10882.9	10897.1	10794.5
17.5°	7915.6	7884.2	8043.8	9255.3	10156.0	10278.6	10292.8	10184.5	10136.0	10036.3
20°	7334.1	7356.9	7322.7	7328.4	8038.1	9511.8	9423.4	9155.5	9032.9	8933.2
22.5°	6909.4	6872.3	6849.5	6835.3	6855.2	7815.8	8451.5	8046.7	7981.1	7932.7
25°	6447.6	6430.5	6402.0	6396.3	6384.9	6222.4	7137.4	7174.5	7069.0	7009.1
27.5°	6017.2	6005.8	5974.5	5971.6	5840.5	5447.1	5546.9	6427.7	6399.2	6376.4
30°	5558.3	5535.5	5518.4	5518.4	5122.2	4717.4	4554.9	5603.9	5603.9	5583.9
32.5°	5059.5	5039.5	5045.2	4976.8	4503.6	4133.1	3876.6	4837.1	5136.4	5119.3
35°	3092.7	3087.0	3665.6	4426.7	3870.9	3534.5	3517.4	4138.8	4574.9	4620.5
37.5°	2753.5	2736.4	2744.9	2793.4	3315.0	3181.1	3175.4	3280.8	3893.7	3916.5
40°	2471.3	2459.9	2451.3	2277.5	2112.2	2839.0	2819.1	2750.6	3326.4	3366.3
42.5°	2203.4	2192.0	2192.0	1946.8	1678.9	2334.5	2343.0	2263.2	2804.8	2819.1
45°	1926.9	1918.3	1869.9	1553.5	1476.5	1550.6	1941.1	1849.9	2226.2	2374.4
47.5°	909.3	903.6	1308.3	1291.2	1285.5	1239.9	1482.2	1533.5	1767.3	1915.5
50°	729.7	724.0	689.8	607.1	1057.5	940.6	1068.9	1180.1	1254.2	1391.0
52.5°	604.3	598.6	527.3	467.5	587.2	686.9	638.5	789.6	786.7	934.9
55°	396.2	367.7	404.8	382.0	307.8	498.8	487.4	598.6	584.3	712.6
57.5°	8.6	8.6	20.0	216.6	193.8	210.9	279.3	342.0	384.8	421.9
60°	2.9	2.9	5.7	11.4	79.8	88.4	108.3	125.4	176.7	219.5
62.5°	0.0	0.0	2.9	5.7	11.4	45.6	51.3	59.9	82.7	114.0
65°	0.0	0.0	0.0	2.9	5.7	11.4	17.1	37.1	51.3	65.6
67.5°	0.0	0.0	0.0	2.9	2.9	5.7	11.4	17.1	22.8	45.6
70°	0.0	0.0	0.0	2.9	2.9	5.7	8.6	11.4	17.1	22.8
72.5°	0.0	0.0	0.0	2.9	2.9	8.6	5.7	8.6	11.4	14.3
75°	0.0	0.0	0.0	2.9	2.9	2.9	5.7	8.6	8.6	11.4
77.5°	0.0	0.0	0.0	2.9	5.7	5.7	5.7	5.7	5.7	8.6
80°	0.0	0.0	0.0	2.9	2.9	5.7	8.6	11.4	5.7	5.7
82.5°	0.0	0.0	0.0	5.7	2.9	11.4	17.1	14.3	5.7	2.9
85°	0.0	0.0	0.0	2.9	11.4	14.3	14.3	8.6	2.9	2.9
87.5°	0.0	0.0	0.0	2.9	2.9	5.7	8.6	8.6	2.9	2.9
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°
11897.6	0°	11897.6	11897.6	11897.6	11897.6	11897.6	11897.6	11897.6	11897.6	11897.6
11854.8	2.5°	11789.3	11900.4	12000.2	11937.5	11914.7	11869.1	11834.9	11797.8	11795.0
11752.2	5°	11686.7	11792.1	11889.0	11814.9	11820.6	11797.8	11775.0	11766.5	11772.2
11646.8	7.5°	11598.3	11686.7	11792.1	11729.4	11746.5	11732.3	11720.9	11703.8	11729.4
11509.9	10°	11464.3	11544.1	11666.7	11606.9	11598.3	11584.1	11572.6	11541.3	11555.5
11262.0	12.5°	11170.7	11270.5	11410.2	11341.8	11364.6	11324.7	11307.6	11287.6	11290.5
10831.5	15°	10771.7	10848.6	10991.2	10937.0	10954.1	10928.5	10928.5	10928.5	10948.4
10050.5	17.5°	10076.2	10233.0	10458.1	10389.7	10415.4	10421.1	10415.4	10435.3	10461.0
8938.9	20°	8944.6	9212.5	9623.0	9756.9	9811.1	9813.9	9774.0	9822.5	9873.8
7898.5	22.5°	7904.2	8186.4	8548.4	8916.1	9144.1	9132.7	9138.4	9169.8	9223.9
6972.1	25°	7003.4	7274.2	7602.0	7929.8	8428.7	8531.3	8534.1	8562.6	8605.4
6339.3	27.5°	6353.6	6459.0	6758.3	7089.0	7624.8	7952.6	7935.5	7961.2	8006.8
5546.9	30°	5569.7	5974.5	6042.9	6245.2	6707.0	7308.4	7311.3	7339.8	7385.4
5079.4	32.5°	5065.2	5333.1	5544.0	5549.7	5943.1	6561.6	6684.2	6712.7	6744.1
4594.9	35°	4592.0	4623.4	4908.4	4988.2	5216.2	5829.1	6045.7	6062.8	6114.1
3907.9	37.5°	3973.5	4158.7	4238.6	4523.6	4535.0	5031.0	5461.4	5444.3	5484.2
3363.5	40°	3406.2	3583.0	3785.3	3993.4	4021.9	4392.5	4868.5	4885.6	4902.7
2790.5	42.5°	2813.4	3038.5	3246.6	3386.3	3580.1	3793.9	4247.1	4326.9	4366.8
2391.5	45°	2434.2	2497.0	2744.9	2950.2	3146.8	3246.6	3671.3	3816.7	3842.3
1892.7	47.5°	1918.3	2129.3	2297.4	2471.3	2716.4	2804.8	3112.6	3315.0	3335.0
1405.3	50°	1482.2	1633.3	1864.2	2020.9	2306.0	2354.4	2565.4	2827.6	2853.3
940.6	52.5°	1060.4	1265.6	1490.8	1641.8	1915.5	1978.2	2135.0	2385.8	2402.9
721.2	55°	761.1	895.0	1080.3	1296.9	1496.5	1636.1	1744.4	1983.9	2006.7
473.2	57.5°	518.8	644.2	721.2	937.8	1057.5	1208.6	1296.9	1479.4	1496.5
225.2	60°	248.0	307.8	367.7	476.0	553.0	681.2	738.3	812.4	832.3
136.8	62.5°	159.6	188.1	239.4	285.0	359.2	439.0	461.8	524.5	547.3
85.5	65°	105.5	134.0	188.1	199.5	273.6	336.3	364.9	410.5	436.1
51.3	67.5°	59.9	94.1	139.7	165.3	216.6	276.5	307.8	347.7	370.6
34.2	70°	39.9	77.0	111.2	136.8	171.0	222.3	262.2	296.4	310.7
17.1	72.5°	22.8	48.5	77.0	108.3	136.8	185.3	222.3	250.8	165.3
11.4	75°	14.3	37.1	65.6	91.2	114.0	148.2	179.6	176.7	74.1
8.6	77.5°	11.4	28.5	57.0	77.0	94.1	102.6	128.3	145.4	57.0
5.7	80°	8.6	22.8	51.3	65.6	37.1	74.1	99.8	108.3	39.9
5.7	82.5°	5.7	14.3	42.8	45.6	25.7	54.2	79.8	71.3	28.5
2.9	85°	2.9	8.6	14.3	25.7	22.8	25.7	20.0	28.5	20.0
2.9	87.5°	2.9	5.7	11.4	11.4	11.4	8.6	11.4	11.4	11.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11897.6
<i>11863.4</i>
11843.4
11800.7
11624.0
11373.1
10957.0
10546.5
9908.0
9232.5
8679.5
8049.5
7465.2
6815.3
6168.3
5532.6
4956.9
4423.8
3905.1
3383.4
2890.3
2434.2
2026.6
1530.7
855.1
553.0
436.1
367.7
307.8
134.0
74.1
57.0
42.8
28.5
20.0
11.4
0.0

(END OF REPORT)