

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: P480955

Luminaire Tested: **IFLD-L-SA8A-750-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480955  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-750-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (128) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

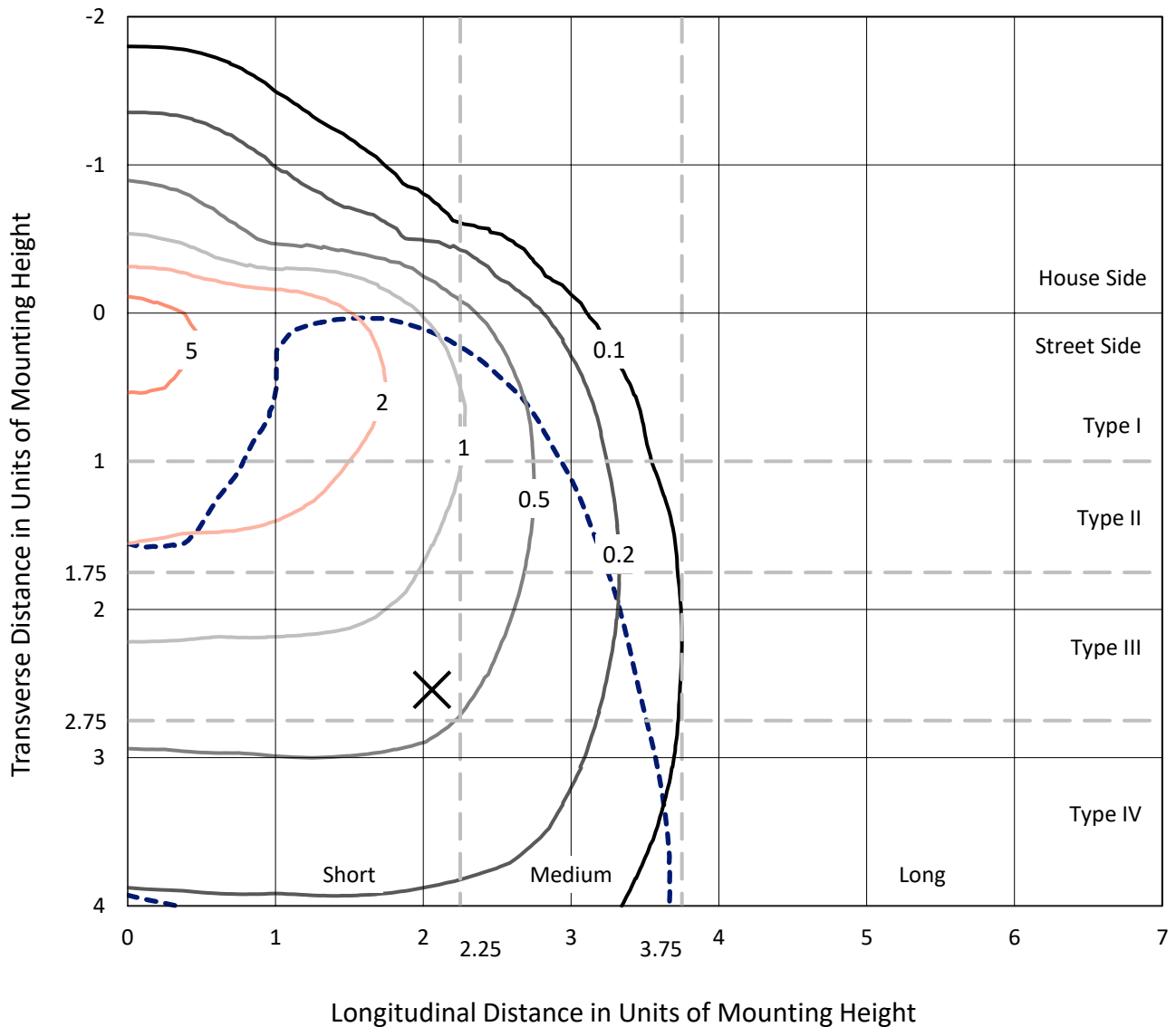
Lumens per Lamp: N/A  
Luminaire Lumens: 33894.2 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

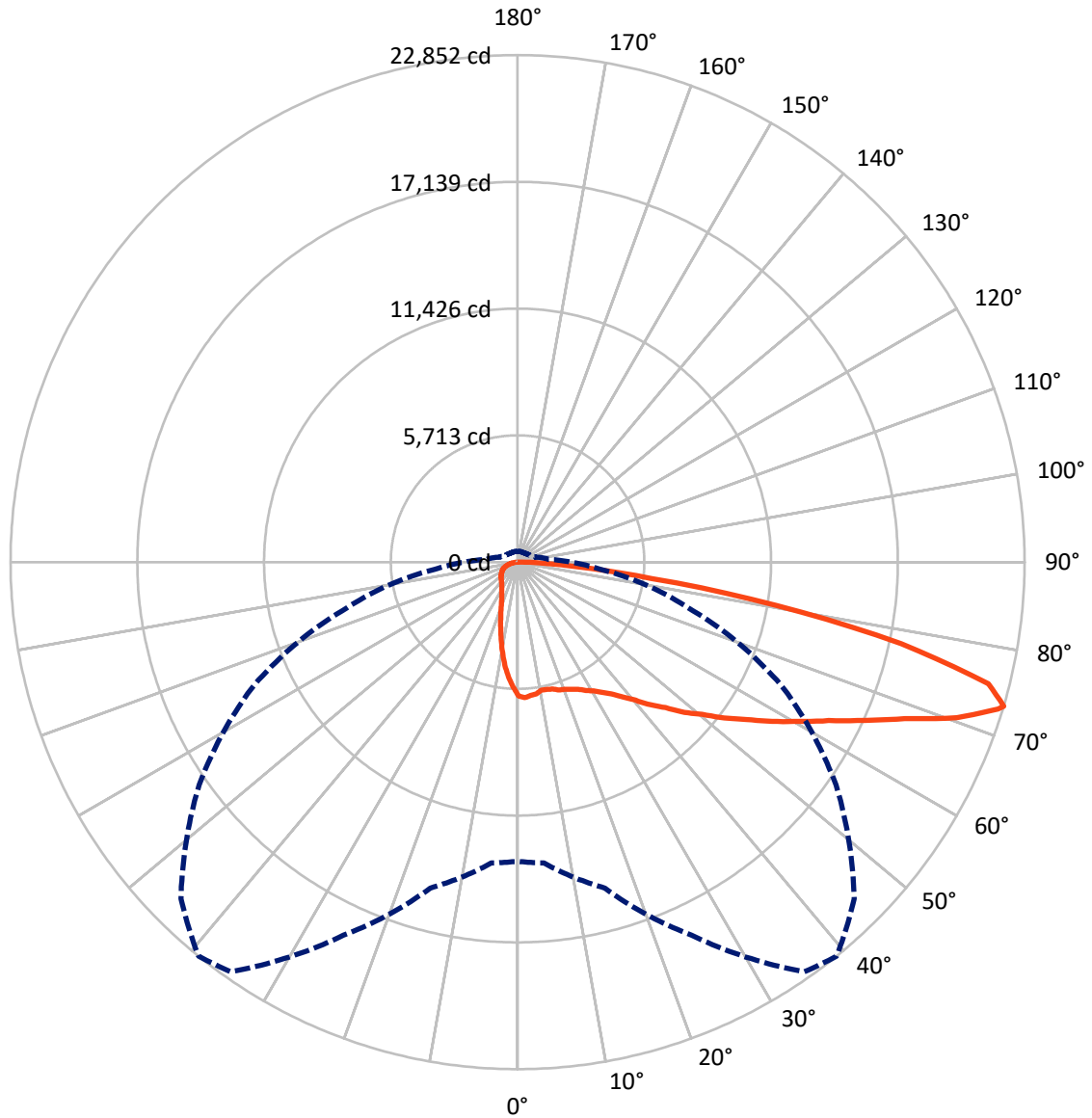
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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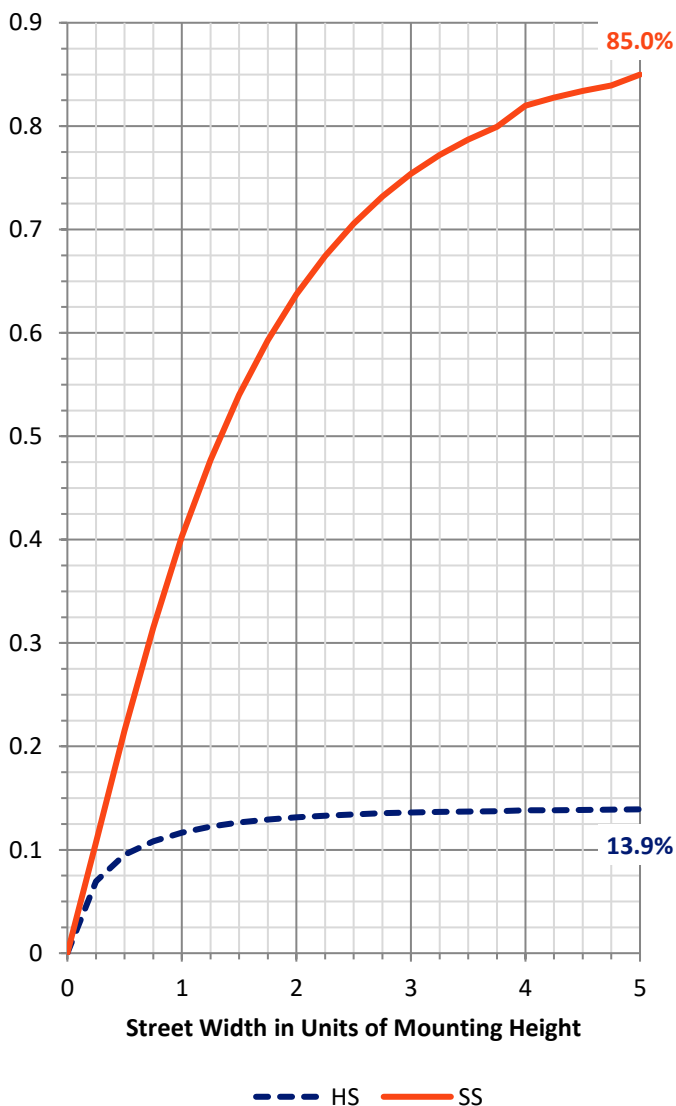
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4764.6	0.0	4764.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	29129.6	0.0	29129.6
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	33894.2	0.0	33894.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	523.7	1.5
10°-20°	1331.4	3.9
20°-30°	2034.6	6.0
30°-40°	2966.5	8.8
40°-50°	4482.6	13.2
50°-60°	6491.1	19.2
60°-70°	8247.3	24.3
70°-80°	6685.7	19.7
80°-90°	1131.2	3.3
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°	33894.2	100.0
0°-180°	33894.2	100.0

**Coefficient of Utilization**



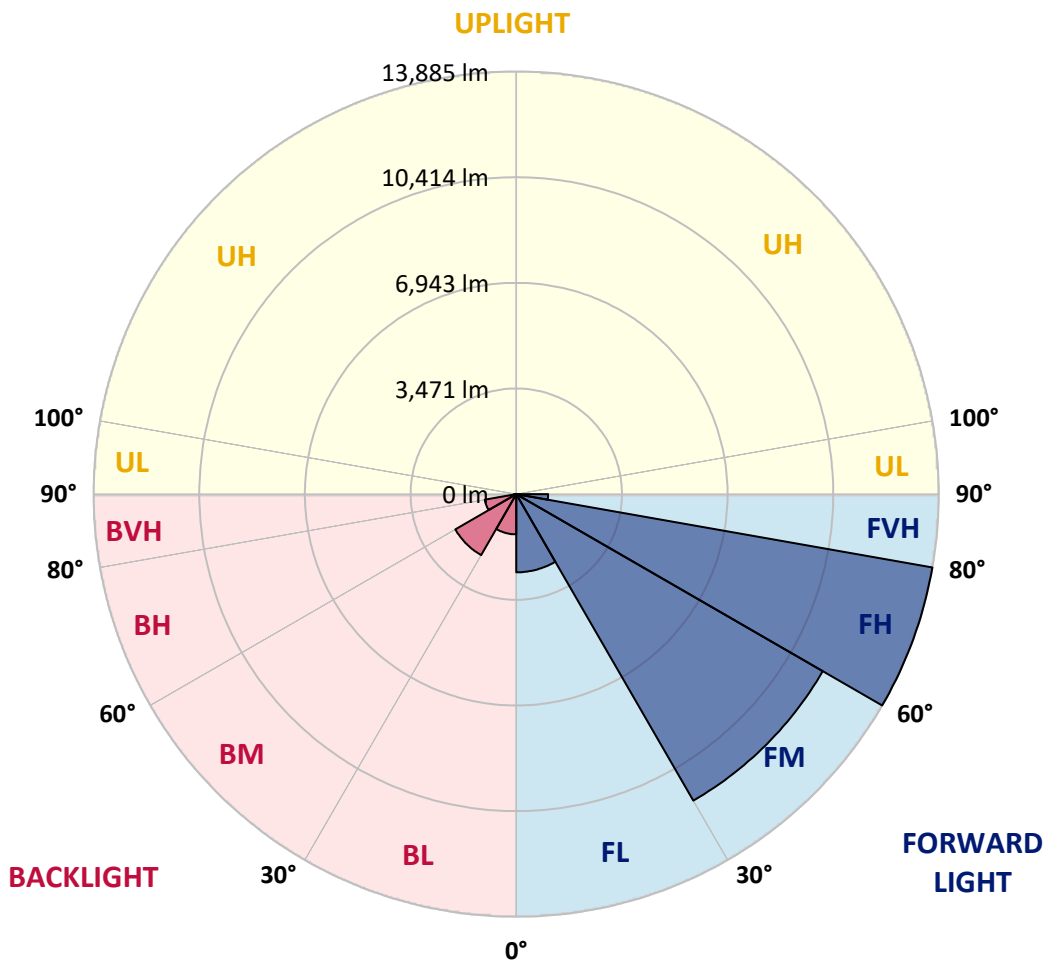
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2568.4	7.6			
FM (30°-60°)	11627.9	34.3			
FH (60°-80°)	13885.1	41.0			G5
FVH (80°-90°)	1048.2	3.1			G5
BL (0°-30°)	1321.3	3.9	B3/2500		
BM (30°-60°)	2312.4	6.8	B2/2500		
BH (60°-80°)	1047.9	3.1	B3/2500		G3/2500
BVH (80°-90°)	83.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4
2.5°	6177.5	6113.0	6124.4	6101.6	6124.4	6116.8	6105.4	6048.5	6105.4	6048.5	6033.4
5°	6094.0	6094.0	6132.0	6075.1	6082.7	6044.7	6082.7	6041.0	6003.0	5908.2	5881.7
7.5°	6067.5	6063.7	6067.5	5987.9	6025.8	6003.0	5965.1	5919.6	5843.8	5783.1	5695.9
10°	5885.5	5923.4	5881.7	5904.4	5934.8	5866.5	5862.7	5851.3	5817.2	5737.6	5684.5
12.5°	5786.9	5851.3	5874.1	5855.1	5881.7	5889.3	5866.5	5851.3	5809.6	5756.5	5604.9
15°	5828.6	5752.7	5817.2	5942.4	5915.8	5934.8	5938.6	5923.4	5904.4	5805.8	5707.2
17.5°	5840.0	5794.5	5931.0	5957.5	5991.7	6059.9	6014.4	6010.6	5938.6	5870.3	5726.2
20°	5866.5	5847.6	5957.5	6097.8	6101.6	6113.0	6135.8	6078.9	6041.0	5923.4	5703.4
22.5°	5965.1	6029.6	6132.0	6192.6	6226.8	6234.4	6234.4	6120.6	6078.9	5984.1	5809.6
25°	6260.9	6192.6	6336.7	6408.8	6359.5	6348.1	6321.6	6219.2	6173.7	6090.3	5858.9
27.5°	6477.1	6473.3	6556.7	6655.3	6522.6	6549.1	6454.3	6424.0	6321.6	6276.1	5946.1
30°	6772.8	6856.3	6852.5	6882.8	6708.4	6738.7	6617.4	6560.5	6503.6	6530.1	6204.0
32.5°	7152.1	7121.7	7171.0	7148.3	6973.8	7000.4	6856.3	6769.1	6788.0	6867.6	6556.7
35°	7394.8	7364.4	7383.4	7383.4	7330.3	7300.0	7239.3	7125.5	7216.5	7364.4	6951.1
37.5°	7656.4	7694.3	7804.3	7781.6	7713.3	7713.3	7705.7	7626.1	7743.6	8107.7	7580.6
40°	7887.7	7990.1	8058.4	8103.9	8183.5	8183.5	8248.0	8202.5	8414.9	8998.9	8350.4
42.5°	8130.4	8134.2	8505.9	8540.0	8718.2	8794.1	8843.4	8881.3	9279.5	9931.7	9173.3
45°	8441.4	8460.4	8786.5	9048.2	9325.0	9351.5	9537.3	9662.5	10151.7	10951.8	10068.3
47.5°	8851.0	8828.2	9177.1	9594.2	9939.3	10121.3	10345.1	10481.6	11084.6	12059.2	11046.6
50°	9389.5	9321.2	9522.2	10178.2	10584.0	10785.0	11183.2	11410.7	12116.0	13117.2	11717.9
52.5°	10045.5	9931.7	10091.0	10807.7	11262.8	11668.6	12047.8	12301.9	13037.5	13936.3	12214.6
55°	10739.5	10504.4	10549.9	11475.2	12131.2	12514.2	13033.7	13299.2	14050.1	14672.0	12711.4
57.5°	11425.9	11278.0	11187.0	12116.0	13166.5	13534.3	14012.1	14357.2	14994.3	15324.2	13132.3
60°	12002.3	11964.3	11816.5	13109.6	14262.4	14577.2	15077.7	15290.1	15771.7	15927.2	13139.9
62.5°	12476.3	12347.4	12582.5	13909.7	15377.3	15733.8	16283.6	16302.6	16643.9	16302.6	12753.1
65°	12847.9	12855.5	13230.9	14876.7	16666.7	17193.8	17637.5	17588.2	17368.2	16078.9	11839.2
67.5°	13185.4	13329.5	13879.4	15938.6	18323.8	18820.6	19313.6	18661.4	17565.4	15032.2	10053.1
70°	13450.9	13595.0	14755.4	17231.7	20276.8	21004.9	21114.9	19086.1	16659.1	12734.2	7584.4
72.5°	13420.5	13682.2	15252.2	18263.2	22009.9	22639.4	21752.0	17891.5	13879.4	8877.5	4425.5
73°	13485.0	13613.9	15210.5	18551.4	22537.0	22851.7	21456.2	17516.1	13090.6	7963.6	3742.9
75°	12241.2	12677.3	14455.8	18081.1	21971.9	21915.0	19757.3	14596.1	9306.0	4182.8	1812.7
77.5°	9055.7	9332.6	11391.7	14869.2	18035.6	17671.6	14903.3	9328.8	4417.9	1551.0	978.4
80°	4425.5	4641.6	6037.2	8585.5	11793.7	11824.0	9249.1	4854.0	1892.3	876.0	667.4
82.5°	2210.8	2339.8	2901.0	3773.2	5802.0	6078.9	4690.9	2760.7	1171.8	496.8	379.2
85°	1444.8	1535.8	1786.1	1846.8	2461.1	2597.6	2184.3	2154.0	762.2	269.2	307.2
87.5°	959.4	974.6	1095.9	932.9	986.0	948.0	1054.2	1357.6	223.7	113.8	83.4
90°	0.0	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°	180°
0°	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4	6033.4
2.5°	6014.4	5961.3	5904.4	5824.8	5767.9	5680.7	5601.1	5566.9	5559.3	5563.1	5525.2
5°	5858.9	5783.1	5669.3	5506.3	5411.5	5267.3	5146.0	5081.5	5013.3	5024.6	4994.3
7.5°	5642.8	5559.3	5384.9	5195.3	4960.2	4755.4	4641.6	4482.4	4391.4	4323.1	4361.0
10°	5574.5	5430.4	5168.8	4907.1	4543.0	4273.8	4012.1	3830.1	3705.0	3583.6	3636.7
12.5°	5540.4	5396.3	5032.2	4645.4	4175.2	3765.6	3397.8	3174.1	2995.8	2889.6	2931.4
15°	5510.0	5331.8	4903.3	4357.2	3830.1	3291.6	2878.3	2582.5	2411.8	2309.4	2320.8
17.5°	5551.8	5297.7	4713.7	4076.6	3450.9	2874.5	2415.6	2108.5	1934.0	1869.5	1854.4
20°	5510.0	5259.8	4527.9	3796.0	3071.7	2476.3	2036.4	1782.3	1661.0	1607.9	1596.5
22.5°	5525.2	5168.8	4334.5	3485.0	2719.0	2142.6	1782.3	1588.9	1494.1	1467.6	1475.2
25°	5597.3	5115.7	4141.1	3143.7	2370.1	1896.1	1619.3	1471.4	1403.1	1376.6	1384.1
27.5°	5650.4	5161.2	3966.6	2821.4	2074.3	1676.1	1482.7	1384.1	1338.6	1319.7	1315.9
30°	5783.1	5187.7	3796.0	2533.2	1831.6	1532.0	1387.9	1308.3	1278.0	1266.6	1262.8
32.5°	5980.3	5237.0	3598.8	2267.7	1653.4	1395.5	1312.1	1243.8	1236.3	1224.9	1228.7
35°	6302.6	5407.7	3378.8	2040.2	1482.7	1304.5	1232.5	1187.0	1187.0	1187.0	1198.3
37.5°	6765.3	5646.6	3181.6	1824.0	1372.8	1224.9	1164.2	1149.0	1141.4	1152.8	1160.4
40°	7360.6	5934.8	3022.4	1653.4	1278.0	1171.8	1118.7	1111.1	1107.3	1103.5	1111.1
42.5°	8012.9	6302.6	2885.9	1520.7	1209.7	1114.9	1077.0	1069.4	1054.2	1061.8	1073.2
45°	8661.4	6757.7	2764.5	1414.5	1164.2	1084.6	1031.5	1027.7	1020.1	1016.3	1035.3
47.5°	9381.9	7205.2	2726.6	1350.0	1130.1	1039.1	1001.1	997.3	974.6	970.8	986.0
50°	9943.1	7535.1	2768.3	1319.7	1080.8	1004.9	978.4	959.4	940.5	921.5	921.5
52.5°	10329.9	7762.6	2798.6	1296.9	1054.2	959.4	925.3	917.7	898.7	879.8	872.2
55°	10678.8	7899.1	2806.2	1300.7	1027.7	906.3	883.6	879.8	868.4	838.1	830.5
57.5°	10796.4	7842.2	2654.5	1266.6	1012.5	872.2	841.9	849.4	834.3	807.7	803.9
60°	10785.0	7447.9	2309.4	1221.1	978.4	834.3	796.4	819.1	819.1	788.8	785.0
62.5°	10128.9	6537.7	1888.5	1133.9	940.5	796.4	754.6	788.8	800.2	781.2	777.4
65°	8767.5	5324.2	1577.5	1046.6	883.6	754.6	712.9	750.9	769.8	762.2	758.4
67.5°	7254.5	4072.8	1312.1	932.9	811.5	697.8	663.6	690.2	701.6	705.3	709.1
70°	5127.0	2711.4	1095.9	807.7	712.9	637.1	599.2	603.0	599.2	610.5	610.5
72.5°	2787.3	1562.4	891.2	686.4	614.3	553.7	527.1	508.2	508.2	504.4	504.4
73°	2385.3	1403.1	849.4	667.4	587.8	538.5	508.2	493.0	493.0	489.2	485.4
75°	1338.6	1027.7	728.1	572.6	508.2	470.2	447.5	424.7	420.9	420.9	420.9
77.5°	879.8	800.2	580.2	458.9	409.6	375.4	367.8	345.1	345.1	345.1	341.3
80°	659.8	629.5	447.5	348.9	314.8	288.2	280.6	265.5	261.7	246.5	250.3
82.5°	439.9	496.8	326.1	246.5	212.4	197.2	197.2	193.4	182.0	163.1	163.1
85°	348.9	405.8	235.1	151.7	125.1	106.2	110.0	106.2	102.4	83.4	79.6
87.5°	64.5	163.1	68.3	41.7	30.3	19.0	19.0	11.4	7.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)