

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: P478345

Luminaire Tested: **IFLD-L-SA8D-830-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478345  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-830-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

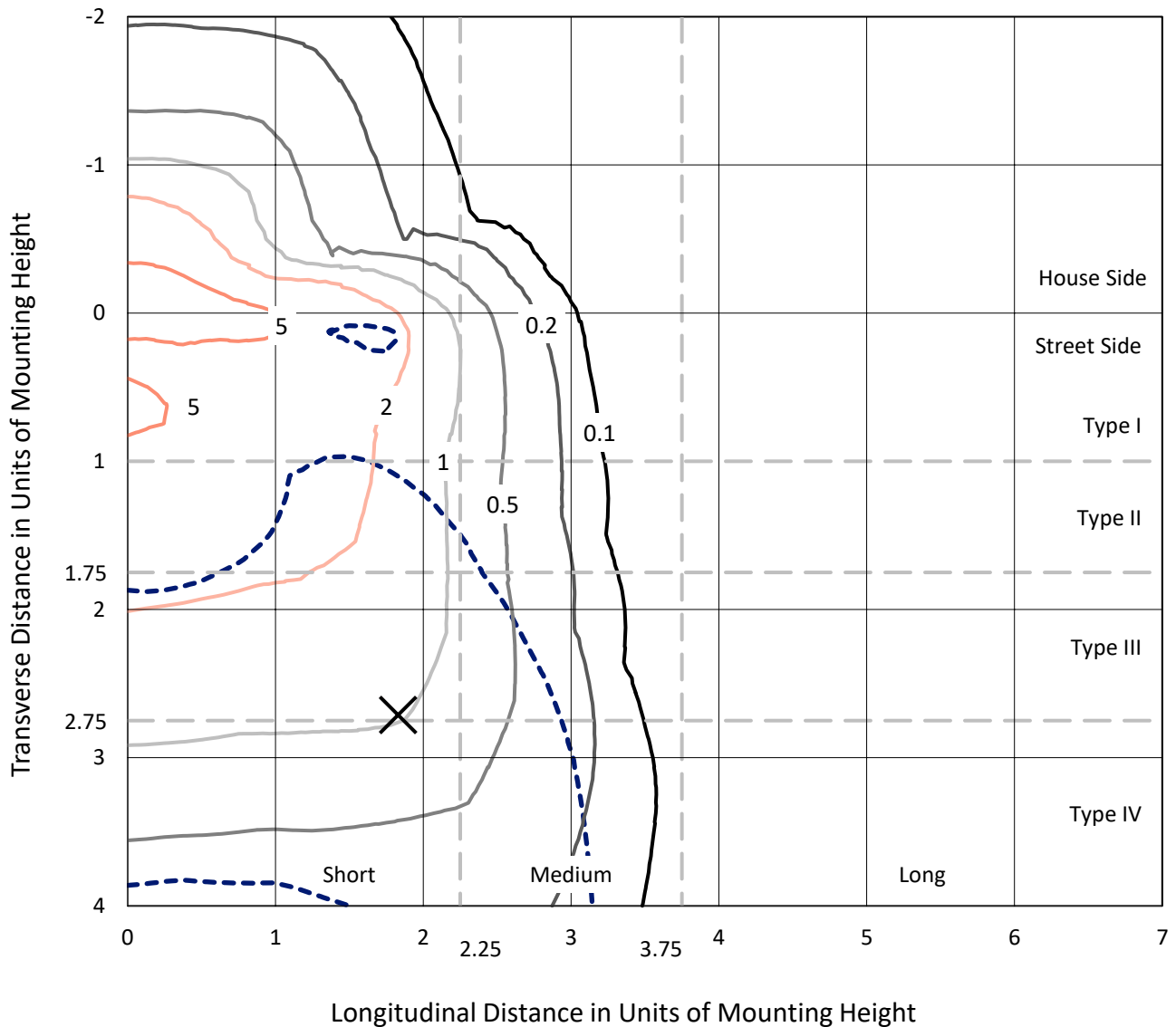
Lumens per Lamp: N/A  
Luminaire Lumens: 45382 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 488.3  
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

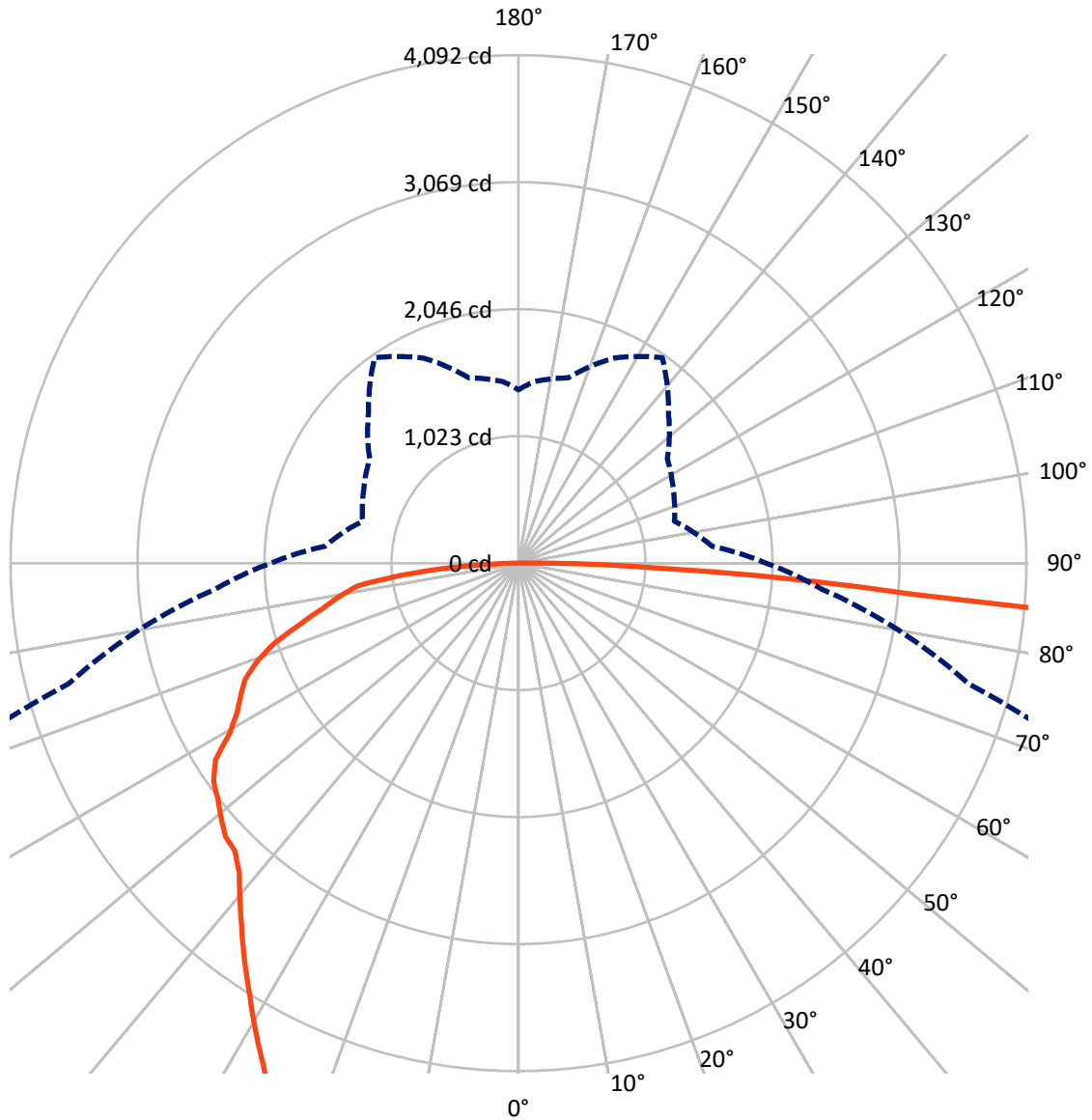
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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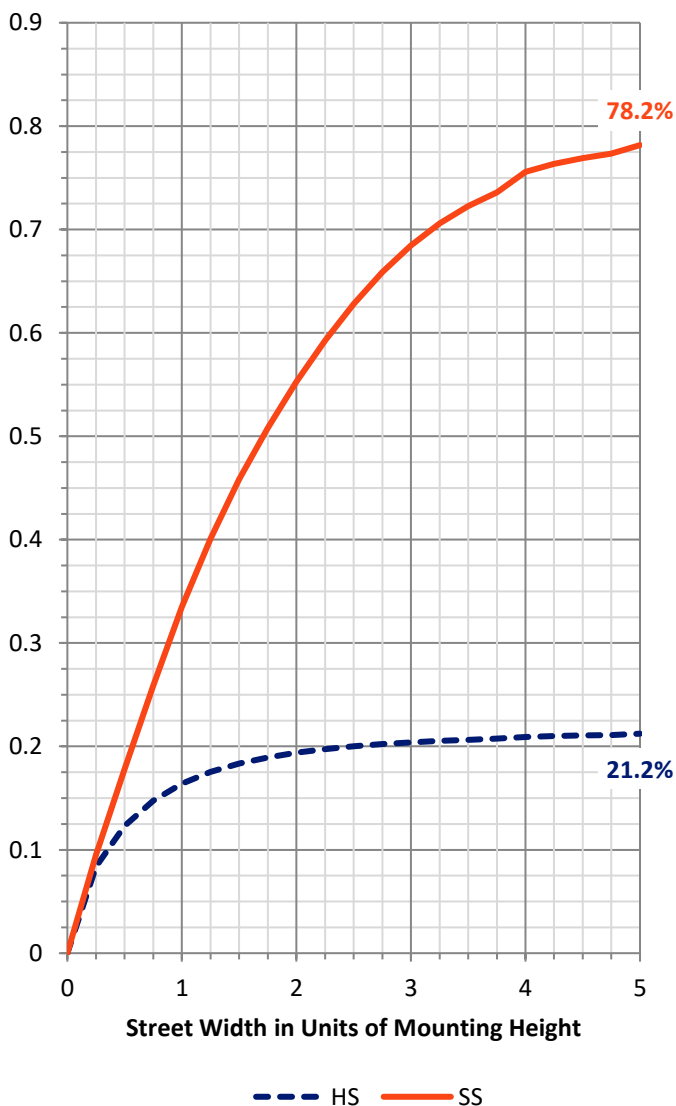
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9803.1	0.0	9803.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	35578.9	0.0	35578.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	45382.0	0.0	45382.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.5	1.3
10°-20°	1680.5	3.7
20°-30°	2765.9	6.1
30°-40°	4136.4	9.1
40°-50°	6132.0	13.5
50°-60°	8836.9	19.5
60°-70°	11277.1	24.8
70°-80°	8775.4	19.3
80°-90°	1177.3	2.6
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°	45382.0	100.0
0°-180°	45382.0	100.0



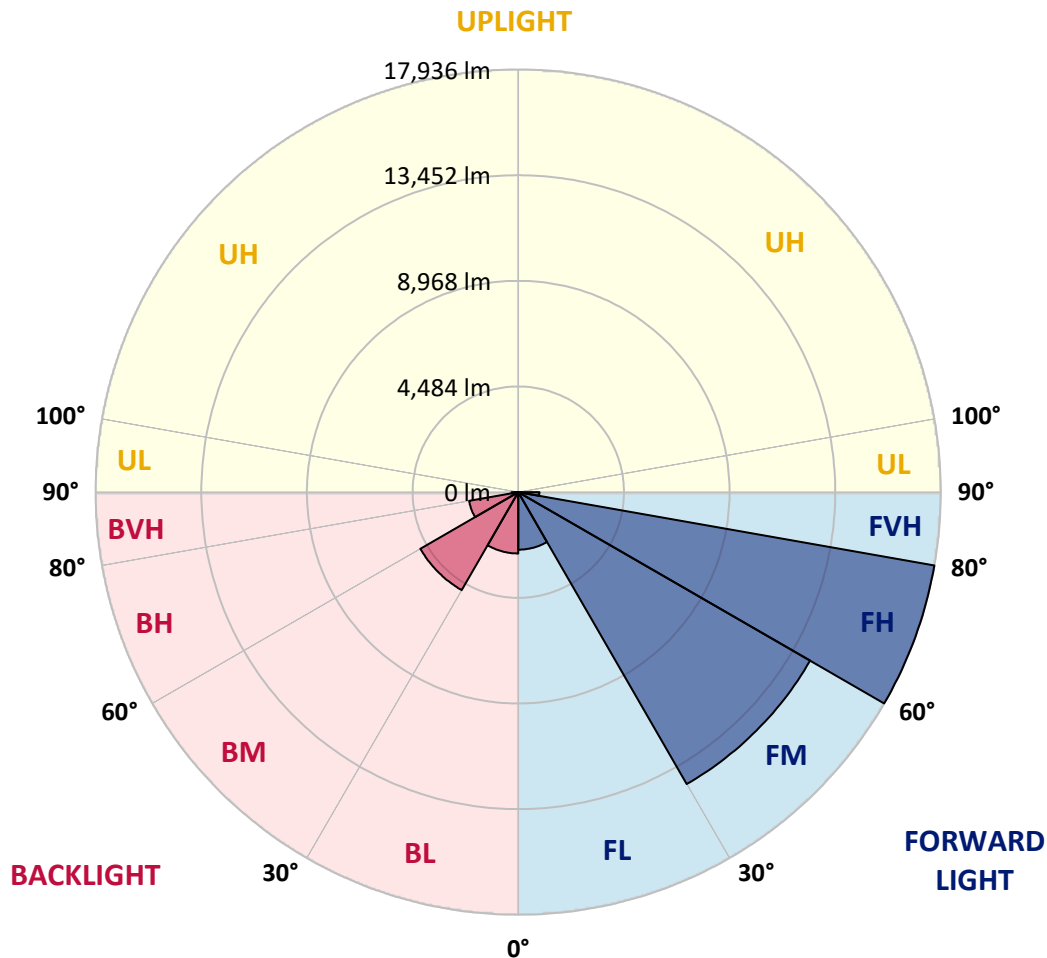
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2442.3	5.4			
FM (30°-60°)	14304.7	31.5			
FH (60°-80°)	17935.8	39.5			G5
FVH (80°-90°)	896.1	2.0			G5
BL (0°-30°)	2604.6	5.7	B4/5000		
BM (30°-60°)	4800.6	10.6	B3/5000		
BH (60°-80°)	2116.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	281.2	0.6			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2
2.5°	5829.7	5848.9	5911.3	5925.6	5992.8	5954.4	6036.0	6179.9	6261.5	6381.5	6525.4
5°	5369.1	5287.5	5325.9	5474.6	5551.4	5570.6	5657.0	5901.7	6055.2	6232.7	6501.4
7.5°	4826.9	4812.5	4889.3	4985.2	5138.8	5153.2	5345.1	5561.0	5877.7	6271.1	6587.8
10°	4457.4	4519.8	4563.0	4663.8	4769.3	4769.3	5014.0	5388.3	5748.1	6127.2	6607.0
12.5°	4438.2	4399.9	4409.5	4462.2	4539.0	4635.0	4865.3	5201.1	5657.0	6098.4	6688.5
15°	4500.6	4515.0	4428.6	4495.8	4524.6	4558.2	4812.5	5191.5	5599.4	6199.1	6827.7
17.5°	4831.7	4750.1	4615.8	4553.4	4654.2	4654.2	4826.9	5124.4	5609.0	6251.9	7029.2
20°	5090.8	5090.8	4870.1	4802.9	4874.9	4860.5	4980.4	5201.1	5657.0	6357.5	7254.7
22.5°	5527.4	5589.8	5225.1	5086.0	5081.2	5119.6	5225.1	5412.3	5791.3	6506.2	7470.6
25°	6156.0	6170.4	5748.1	5604.2	5450.6	5513.0	5532.2	5719.3	5911.3	6679.0	7715.3
27.5°	6856.5	6846.9	6458.2	6098.4	5997.6	6012.0	5906.5	6031.2	6088.8	6731.7	8065.6
30°	7633.8	7547.4	7254.7	6746.1	6664.6	6573.4	6343.1	6338.3	6458.2	7029.2	8550.2
32.5°	8142.4	8032.0	7830.5	7465.8	7240.3	7249.9	6885.3	6880.5	6774.9	7355.5	8972.4
35°	8641.4	8473.4	8420.7	8046.4	7820.9	7844.9	7552.2	7513.8	7321.9	7849.7	9668.2
37.5°	9241.1	9092.4	9174.0	8890.9	8612.6	8497.4	8363.1	8315.1	8065.6	8545.4	10618.2
40°	9903.3	9855.3	9802.5	9663.4	9495.4	9505.0	9361.1	9313.1	8943.7	9385.1	11529.8
42.5°	10795.7	10613.4	10339.9	10431.1	10517.4	10608.6	10560.6	10435.9	10052.0	10239.1	12547.0
45°	11625.8	11385.9	10882.1	10910.9	11265.9	11337.9	11918.5	11904.1	11131.6	11323.5	13703.4
47.5°	12187.2	12076.8	11774.5	11740.9	12249.5	12244.7	13290.7	13290.7	12268.7	12403.1	14946.1
50°	13022.0	12734.1	12604.6	12772.5	13031.6	13209.2	14691.8	14782.9	13386.7	13530.6	16572.6
52.5°	14000.8	13641.0	13314.7	13746.5	14207.2	14322.3	16078.4	16040.0	14245.5	14840.5	18477.5
55°	14811.7	14629.4	14403.9	14653.4	15406.7	15550.6	17469.9	17114.8	15104.4	15924.9	19393.9
57.5°	15757.0	15867.3	15915.3	15852.9	16750.2	16975.7	19058.0	18040.8	15843.3	16654.2	19931.3
60°	17182.0	17249.2	17311.5	17460.3	18410.3	18727.0	20315.1	19202.0	16308.7	17076.4	19974.5
62.5°	19350.7	19091.6	19230.8	19744.2	20507.1	20866.9	22167.2	20017.7	16663.8	17330.7	18563.8
65°	21831.3	21481.1	21337.1	21999.3	23976.1	23688.2	24479.9	20627.0	16150.4	16380.7	15742.6
67.5°	24345.5	24383.9	24014.5	25343.5	27766.6	27766.6	26629.4	20919.7	14758.9	13276.3	11040.4
70°	26341.6	26461.5	26663.0	29239.6	33078.1	33658.6	29292.4	19720.2	11923.3	8838.1	6036.0
72.5°	26312.8	25952.9	26984.5	31729.8	37905.0	37420.4	29849.0	15593.8	7441.8	4327.9	2768.5
73°	25722.6	25420.3	26547.9	31705.8	38101.7	37645.9	29441.1	14375.1	6563.8	3752.1	2461.4
75°	21006.1	20459.1	22378.3	28716.6	35251.6	35601.9	25012.5	9375.5	3598.6	2312.7	1732.1
77.5°	9577.0	9816.9	12316.7	19264.4	27166.8	27579.5	16443.1	4054.4	1972.0	1621.8	1276.3
80°	3075.6	3229.1	4793.3	9577.0	17028.4	17772.2	7600.2	1842.5	1405.8	1242.7	954.8
82.5°	1175.5	1170.7	2010.4	3982.4	8070.4	8545.4	2778.1	1122.8	1046.0	916.4	676.5
85°	412.6	431.8	758.1	1573.8	3176.3	3325.1	964.4	623.8	724.5	614.2	388.6
87.5°	143.9	148.7	268.7	571.0	1094.0	1156.3	268.7	249.5	359.9	355.1	196.7
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°	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2	6506.2
2.5°	6573.4	6616.6	6631.0	6803.7	6803.7	6803.7	6870.9	6870.9	6851.7	6803.7	6918.9
5°	6602.2	6679.0	6827.7	6976.4	7014.8	7048.4	7139.6	7062.8	7091.6	7043.6	7086.8
7.5°	6683.7	6789.3	7067.6	7158.8	7096.4	7168.4	7072.4	7019.6	6966.8	6986.0	6918.9
10°	6822.9	6957.2	7086.8	7254.7	7134.8	7062.8	6866.1	6818.1	6650.2	6592.6	6645.4
12.5°	6995.6	7158.8	7379.5	7317.1	7086.8	6880.5	6669.4	6467.8	6367.1	6223.1	6261.5
15°	7168.4	7355.5	7389.1	7283.5	6995.6	6736.5	6352.7	6069.6	5968.8	5839.3	5906.5
17.5°	7355.5	7533.0	7475.4	7201.9	6813.3	6419.9	5983.2	5704.9	5493.8	5412.3	5412.3
20°	7633.8	7720.1	7629.0	7067.6	6592.6	6074.4	5652.2	5335.5	5124.4	5090.8	5038.0
22.5°	7849.7	7988.8	7581.0	6870.9	6271.1	5623.4	5138.8	5018.8	4956.4	4903.7	4836.5
25°	8128.0	8123.2	7494.6	6688.5	5719.3	5086.0	4793.3	4783.7	4754.9	4735.7	4826.9
27.5°	8391.9	8281.5	7393.9	6237.5	5148.4	4678.1	4519.8	4625.4	4668.5	4639.8	4678.1
30°	8809.3	8627.0	7249.9	5757.7	4644.6	4265.5	4294.3	4438.2	4510.2	4553.4	4495.8
32.5°	9250.7	8972.4	6952.4	5258.7	4198.3	4006.4	4073.6	4222.3	4308.7	4356.7	4409.5
35°	9888.9	9241.1	6650.2	4606.2	3876.9	3848.1	3886.5	3968.0	4092.8	4126.4	4140.8
37.5°	10675.8	9649.0	6242.3	4083.2	3627.4	3660.9	3699.3	3728.1	3732.9	3795.3	3771.3
40°	11462.7	9994.4	5647.4	3584.2	3368.3	3550.6	3531.4	3478.6	3435.4	3377.9	3363.5
42.5°	12153.6	10296.7	4985.2	3161.9	3138.0	3435.4	3373.1	3238.7	3138.0	3094.8	3022.8
45°	12930.9	10723.7	4318.3	2898.1	2960.4	3296.3	3277.1	3070.8	2941.2	2787.7	2768.5
47.5°	13938.5	11170.0	3680.1	2624.6	2792.5	3243.5	3253.1	2989.2	2802.1	2595.8	2567.0
50°	15229.2	11812.9	3195.5	2509.4	2691.7	3166.7	3181.1	2878.9	2634.2	2423.0	2403.8
52.5°	16467.1	12470.3	2792.5	2331.9	2624.6	3075.6	3109.2	2778.1	2495.0	2231.1	2245.5
55°	17090.8	12230.3	2447.0	2202.3	2471.0	2926.8	3051.6	2706.1	2283.9	2101.6	2096.8
57.5°	17230.0	11640.2	2173.5	2068.0	2341.5	2768.5	2955.6	2490.2	2187.9	2034.4	2015.2
60°	16774.1	10608.6	1957.6	1924.0	2178.3	2605.4	2734.9	2375.1	2092.0	1967.2	1938.4
62.5°	15651.4	9538.6	1808.9	1856.9	2039.2	2427.8	2595.8	2293.5	2000.8	1914.4	1852.1
65°	12834.9	7844.9	1688.9	1727.3	1895.2	2255.1	2509.4	2202.3	1919.2	1837.7	1832.9
67.5°	8890.9	5407.5	1593.0	1664.9	1780.1	2130.4	2423.0	2101.6	1813.7	1784.9	1746.5
70°	4553.4	2883.7	1468.2	1525.8	1655.3	1972.0	2269.5	1996.0	1703.3	1698.5	1650.5
72.5°	2307.9	1688.9	1324.3	1410.6	1501.8	1765.7	2077.6	1856.9	1564.2	1511.4	1434.6
73°	1996.0	1564.2	1300.3	1377.1	1463.4	1708.1	2020.0	1823.3	1545.0	1468.2	1396.2
75°	1453.8	1233.1	1165.9	1242.7	1309.9	1540.2	1828.1	1669.7	1420.2	1338.7	1271.5
77.5°	1089.2	950.0	969.2	1055.6	1113.2	1329.1	1626.6	1511.4	1285.9	1175.5	1146.7
80°	801.3	724.5	801.3	882.8	926.0	1170.7	1482.6	1309.9	1084.4	959.6	935.6
82.5°	571.0	527.8	619.0	671.7	690.9	969.2	1333.9	1046.0	820.5	657.3	604.6
85°	326.3	321.5	417.4	412.6	427.0	566.2	878.1	695.7	527.8	403.0	393.4
87.5°	143.9	158.3	211.1	167.9	177.5	268.7	374.3	259.1	215.9	120.0	91.2
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)