

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: P480518

Luminaire Tested: **IFLD-M-SA4C-740-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480518  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-740-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

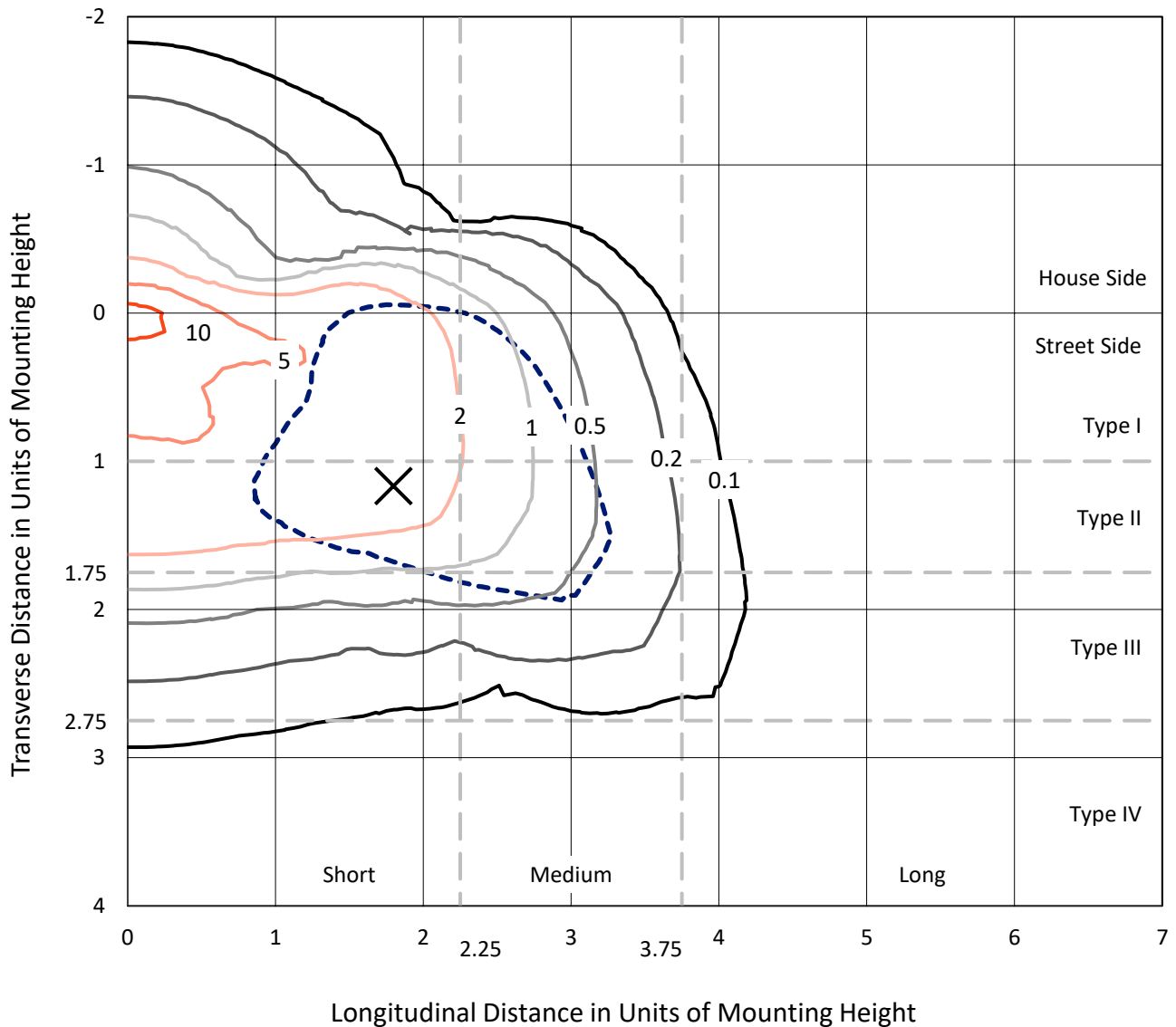
Lumens per Lamp: N/A  
Luminaire Lumens: 28054.3 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1  
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: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

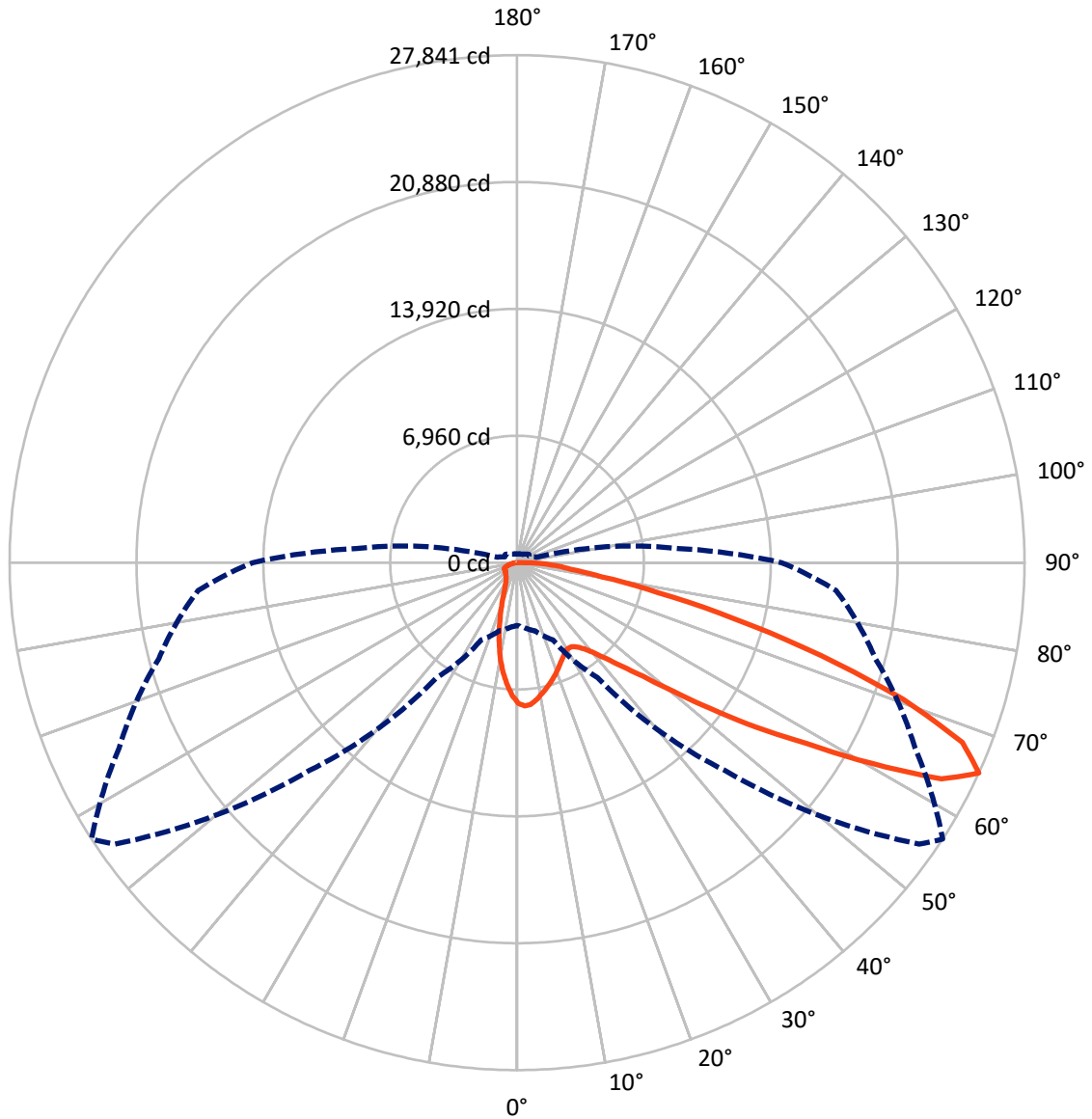
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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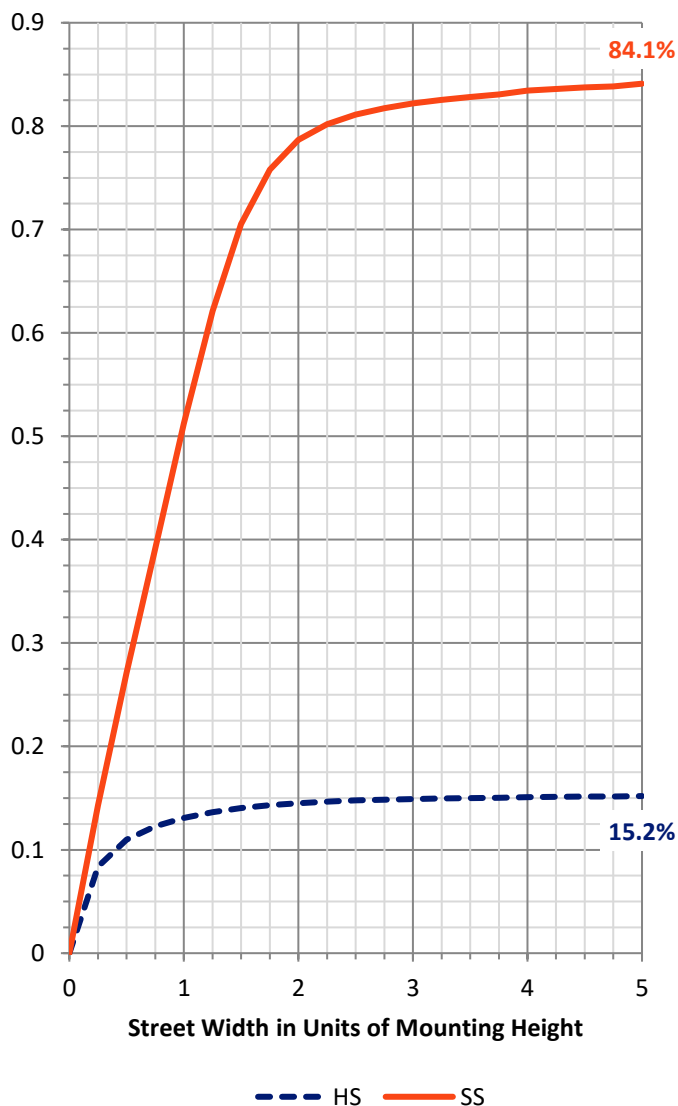
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4302.4	0.0	4302.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	23751.9	0.0	23751.9
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	28054.3	0.0	28054.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	646.0	2.3
10°-20°	1390.4	5.0
20°-30°	1797.6	6.4
30°-40°	2419.0	8.6
40°-50°	3857.2	13.7
50°-60°	6812.8	24.3
60°-70°	7495.0	26.7
70°-80°	3135.3	11.2
80°-90°	501.1	1.8
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°	28054.3	100.0
0°-180°	28054.3	100.0

**Coefficient of Utilization**



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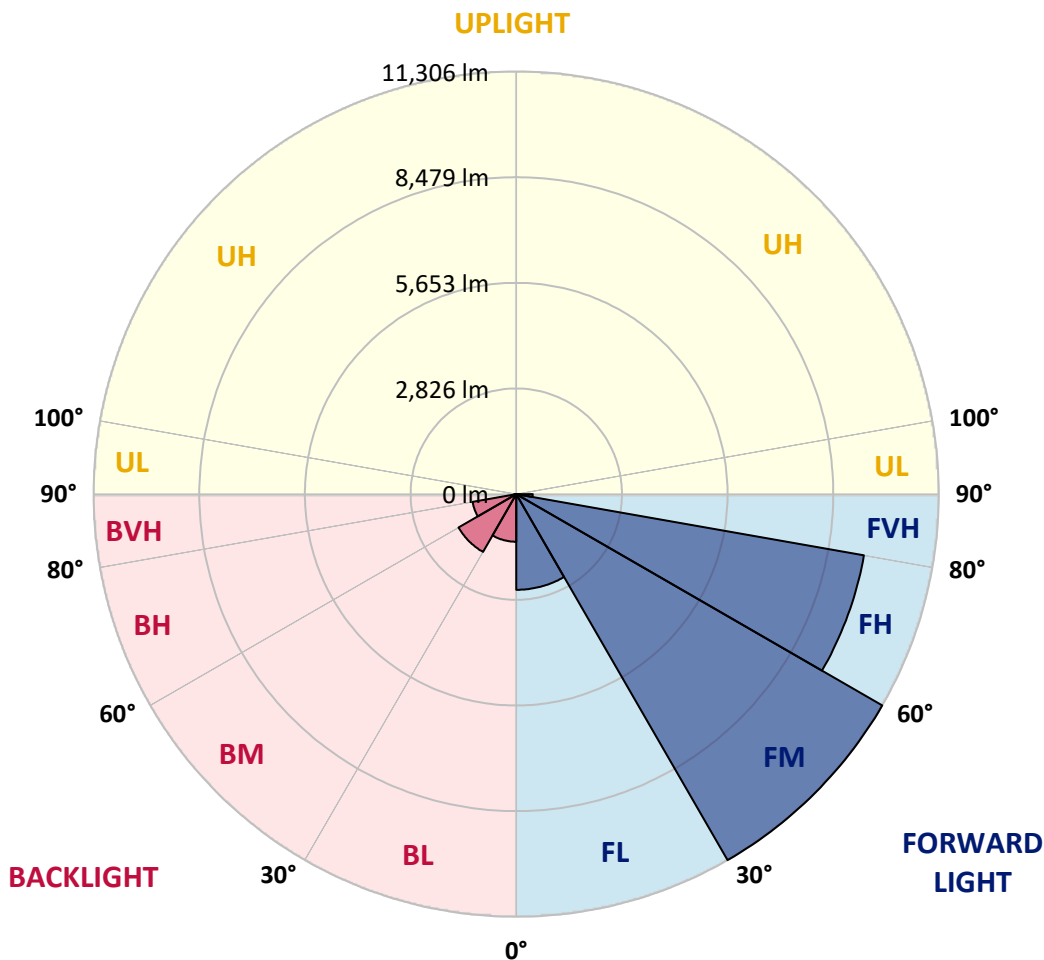
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2559.9	9.1			
FM (30°-60°)	11305.8	40.3			
FH (60°-80°)	9443.9	33.7			G4/12000
FVH (80°-90°)	442.3	1.6			G3/500
BL (0°-30°)	1274.2	4.5	B3/2500		
BM (30°-60°)	1783.1	6.4	B2/2500		
BH (60°-80°)	1186.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	58.8	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5
2.5°	7922.9	7935.5	7935.5	7960.7	7875.5	7916.5	7910.2	7872.4	7885.0	7818.7	7752.4
5°	7698.7	7689.3	7739.8	7746.1	7812.4	7831.3	7847.1	7821.9	7828.2	7683.0	7619.8
7.5°	7124.3	7121.1	7206.3	7278.9	7417.8	7547.2	7632.5	7607.2	7641.9	7550.4	7402.0
10°	6442.5	6515.1	6603.4	6676.0	6931.7	7095.9	7316.8	7338.9	7471.5	7449.4	7181.1
12.5°	5931.1	5962.7	6028.9	6237.3	6470.9	6742.3	7058.0	7086.4	7215.8	7278.9	7045.3
15°	5511.3	5539.7	5624.9	5779.6	6041.6	6363.5	6764.4	6837.0	7095.9	7117.9	6868.6
17.5°	5205.1	5227.2	5284.0	5438.7	5653.3	6066.8	6445.6	6575.0	6915.9	7023.3	6685.5
20°	5085.1	5037.8	5069.4	5167.2	5381.9	5700.7	6189.9	6303.6	6739.2	6950.7	6511.9
22.5°	5031.5	4990.5	5009.4	5003.1	5173.5	5400.8	5915.3	6035.3	6571.9	6865.4	6357.2
25°	5072.5	5072.5	5053.6	5037.8	5056.7	5205.1	5618.6	5804.8	6347.8	6792.8	6199.4
27.5°	5293.5	5208.3	5217.7	5151.4	5132.5	5132.5	5486.0	5596.5	6275.2	6751.8	6070.0
30°	5435.5	5476.6	5479.7	5381.9	5284.0	5107.2	5362.9	5470.2	6215.2	6802.3	5994.2
32.5°	5798.5	5779.6	5725.9	5707.0	5561.8	5362.9	5422.9	5495.5	6180.5	6915.9	6016.3
35°	6161.5	6152.1	6155.2	6145.7	5994.2	5700.7	5583.9	5681.7	6243.6	7114.8	6092.1
37.5°	6537.1	6562.4	6669.7	6669.7	6508.7	6189.9	6035.3	6006.9	6474.0	7439.9	6272.0
40°	6912.8	6975.9	7111.6	7326.3	7099.0	6802.3	6552.9	6508.7	6751.8	7875.5	6704.4
42.5°	7272.6	7376.8	7645.1	7963.9	7888.1	7591.4	7260.0	7209.5	7323.1	8522.6	7307.3
45°	7733.5	7821.9	8244.8	8734.1	8838.2	8576.3	8188.0	8147.0	8140.7	9469.6	8137.5
47.5°	8434.2	8528.9	8951.9	9444.3	9766.3	9807.3	9371.7	9327.5	9176.0	10747.9	9352.8
50°	9311.7	9466.4	9823.1	10397.6	10864.7	11303.5	11180.4	11051.0	10754.3	12234.7	10893.1
52.5°	9952.5	10141.9	10624.8	11360.3	12184.2	12881.7	13323.7	13323.7	12641.9	13866.6	12746.0
55°	10123.0	10236.6	10845.8	11909.5	13320.5	15085.0	16009.9	15940.4	14889.3	15583.7	14901.9
57.5°	9444.3	9592.7	10331.3	11445.5	13917.1	17146.2	18677.1	18692.9	17345.1	17578.6	17029.4
60°	7575.6	7623.0	8494.2	9984.1	13342.6	18806.5	22319.7	22379.7	20138.6	19355.8	18112.1
62.5°	5236.7	5388.2	6044.7	7351.5	11054.1	18620.3	25832.9	26129.7	22376.6	20293.3	18282.5
65°	3446.9	3538.5	3888.8	4684.3	7695.6	16139.3	26925.1	27840.5	24087.4	20346.9	17569.2
67.5°	2500.0	2515.7	2619.9	3030.3	4624.3	11606.5	25059.6	26350.6	24728.2	19898.7	15896.2
70°	2020.2	2032.8	2070.7	2332.7	2986.1	7263.1	20438.4	22461.8	22805.8	17774.3	12802.8
72.5°	1641.4	1657.2	1704.5	1950.7	2462.1	4040.3	14946.1	17411.3	18550.9	13150.1	8510.0
75°	1291.0	1303.6	1417.3	1660.3	2313.7	2774.6	9914.6	12329.4	12484.0	7686.1	3983.5
77.5°	883.8	905.9	1044.8	1407.8	2178.0	2427.4	6180.5	7897.6	7086.4	3008.2	1369.9
80°	561.9	593.4	675.5	1066.9	1925.5	2316.9	3844.6	4715.8	3102.9	1029.0	659.7
82.5°	331.4	363.0	445.1	691.3	1512.0	2149.6	2708.3	2951.3	1455.2	527.1	397.7
85°	183.1	205.2	268.3	416.7	887.0	1909.7	2168.5	2118.0	833.3	280.9	249.4
87.5°	60.0	69.4	97.9	167.3	366.2	899.6	1300.5	1221.6	432.4	129.4	97.9
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°	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5	7714.5
2.5°	7708.2	7698.7	7556.7	7449.4	7266.3	7114.8	7054.8	6972.7	6969.6	6909.6	6893.8
5°	7522.0	7424.1	7206.3	6998.0	6672.9	6455.1	6256.2	6117.3	6060.5	5937.4	5909.0
7.5°	7282.1	7152.7	6818.1	6426.7	6044.7	5703.8	5394.5	5085.1	4911.5	4851.6	4785.3
10°	7032.7	6805.5	6309.9	5871.1	5337.7	4813.7	4327.6	3892.0	3655.2	3488.0	3415.4
12.5°	6833.9	6530.8	5899.5	5243.0	4539.1	3838.3	3273.3	2815.6	2547.3	2421.0	2364.2
15°	6609.7	6208.9	5451.3	4621.1	3743.6	2948.2	2395.8	2036.0	1928.6	1868.7	1859.2
17.5°	6373.0	5909.0	4965.2	4008.8	2967.1	2219.0	1862.3	1717.1	1669.8	1644.5	1631.9
20°	6152.1	5640.7	4466.5	3327.0	2323.2	1780.3	1613.0	1537.2	1534.1	1546.7	1543.5
22.5°	5839.6	5290.3	3974.1	2695.7	1856.0	1549.9	1442.5	1423.6	1442.5	1458.3	1464.6
25°	5662.8	5003.1	3424.8	2140.1	1534.1	1376.2	1341.5	1335.2	1363.6	1382.6	1379.4
27.5°	5479.7	4706.4	2913.5	1714.0	1344.7	1253.1	1246.8	1253.1	1281.5	1310.0	1306.8
30°	5337.7	4469.6	2433.7	1433.1	1199.5	1164.8	1158.4	1164.8	1180.5	1183.7	1183.7
32.5°	5220.9	4188.7	2026.5	1243.7	1111.1	1082.7	1089.0	1085.8	1089.0	1092.2	1095.3
35°	5151.4	4021.4	1691.9	1126.9	1038.5	1016.4	1013.2	1003.8	1006.9	1010.1	1006.9
37.5°	5299.8	3939.3	1426.7	1044.8	988.0	969.1	962.7	956.4	947.0	947.0	947.0
40°	5523.9	3895.1	1265.8	991.1	950.1	928.0	909.1	902.8	902.8	905.9	909.1
42.5°	5969.0	3967.7	1155.3	950.1	902.8	877.5	858.6	861.7	871.2	880.7	874.4
45°	6612.9	4188.7	1104.8	918.5	874.4	839.6	827.0	823.9	833.3	849.1	861.7
47.5°	7455.7	4532.8	1085.8	890.1	855.4	808.1	792.3	801.8	814.4	836.5	827.0
50°	8835.1	5306.1	1101.6	864.9	827.0	792.3	773.3	763.9	773.3	789.1	795.4
52.5°	10637.5	6710.8	1161.6	852.3	808.1	779.7	748.1	732.3	741.8	754.4	754.4
55°	12793.4	8629.9	1328.9	836.5	776.5	760.7	726.0	694.4	700.7	700.7	697.6
57.5°	14693.6	10078.8	1527.8	814.4	757.6	735.5	691.3	653.4	647.1	650.2	653.4
60°	15545.8	10463.9	1622.4	808.1	757.6	703.9	643.9	606.1	596.6	590.3	590.3
62.5°	15397.5	9797.8	1429.9	779.7	776.5	678.7	599.7	558.7	546.1	533.5	536.6
65°	14501.0	8847.7	1126.9	741.8	779.7	662.9	555.5	514.5	492.4	476.6	473.5
67.5°	12862.8	7553.5	893.3	713.4	748.1	634.5	517.7	470.3	451.4	435.6	429.3
70°	10063.0	5921.6	776.5	675.5	672.3	565.0	473.5	432.4	404.0	385.1	385.1
72.5°	6524.5	3743.6	666.0	599.7	580.8	473.5	410.3	385.1	363.0	347.2	347.2
75°	2954.5	1739.2	536.6	501.9	473.5	378.8	347.2	334.6	315.7	299.9	299.9
77.5°	1060.6	741.8	400.9	394.6	353.5	293.6	280.9	271.5	258.8	243.1	243.1
80°	593.4	470.3	299.9	287.2	246.2	217.8	202.0	202.0	195.7	186.2	183.1
82.5°	375.6	306.2	221.0	192.5	161.0	145.2	138.9	135.7	132.6	119.9	116.8
85°	236.7	208.3	145.2	113.6	94.7	72.6	69.4	66.3	60.0	53.7	53.7
87.5°	107.3	119.9	56.8	34.7	25.3	15.8	9.5	3.2	0.0	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)