

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: P477006

Luminaire Tested: **IFLD-M-SA4A-740-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477006  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-740-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

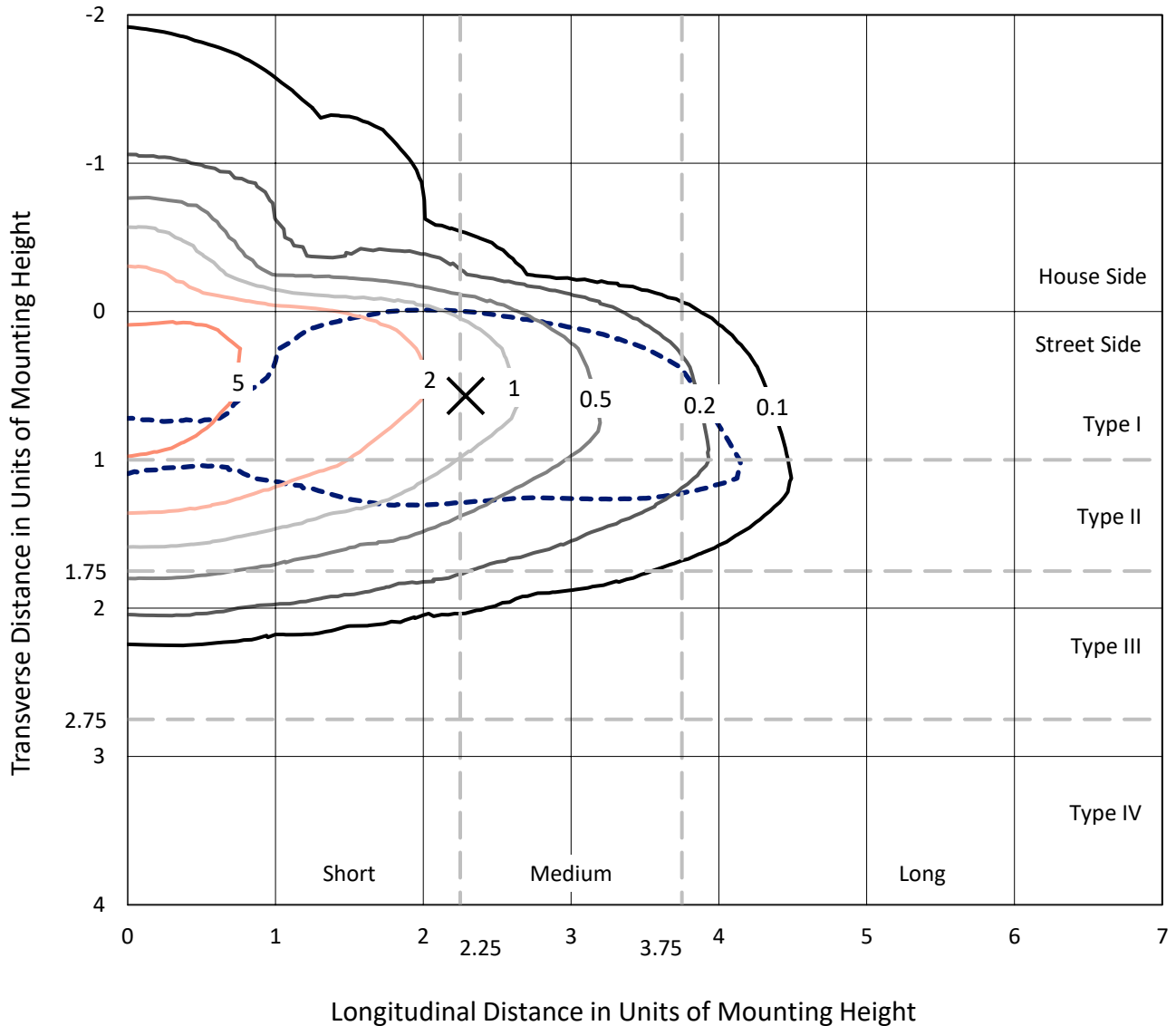
Lumens per Lamp: N/A  
Luminaire Lumens: 18571.2 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 128.6  
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

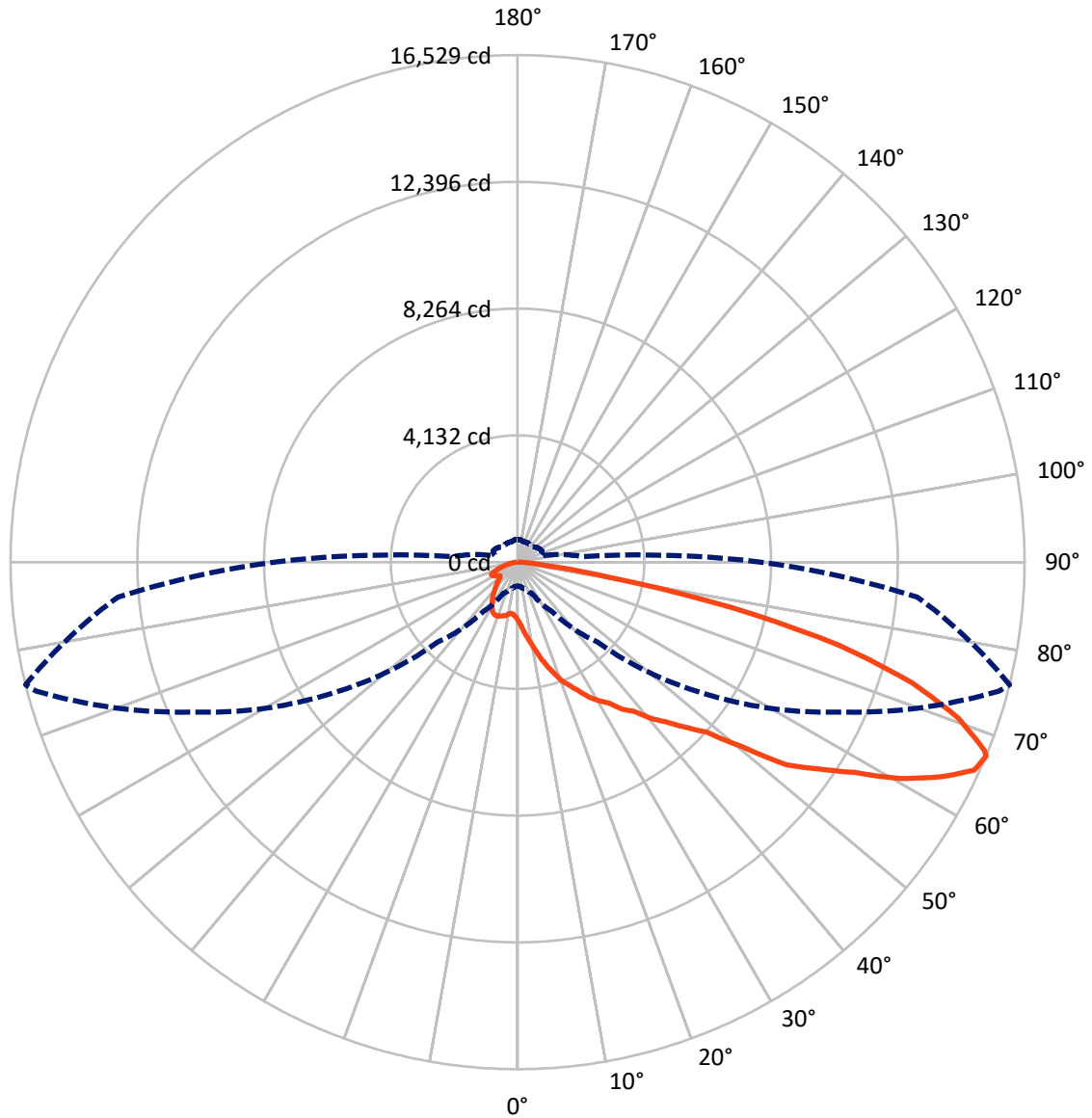
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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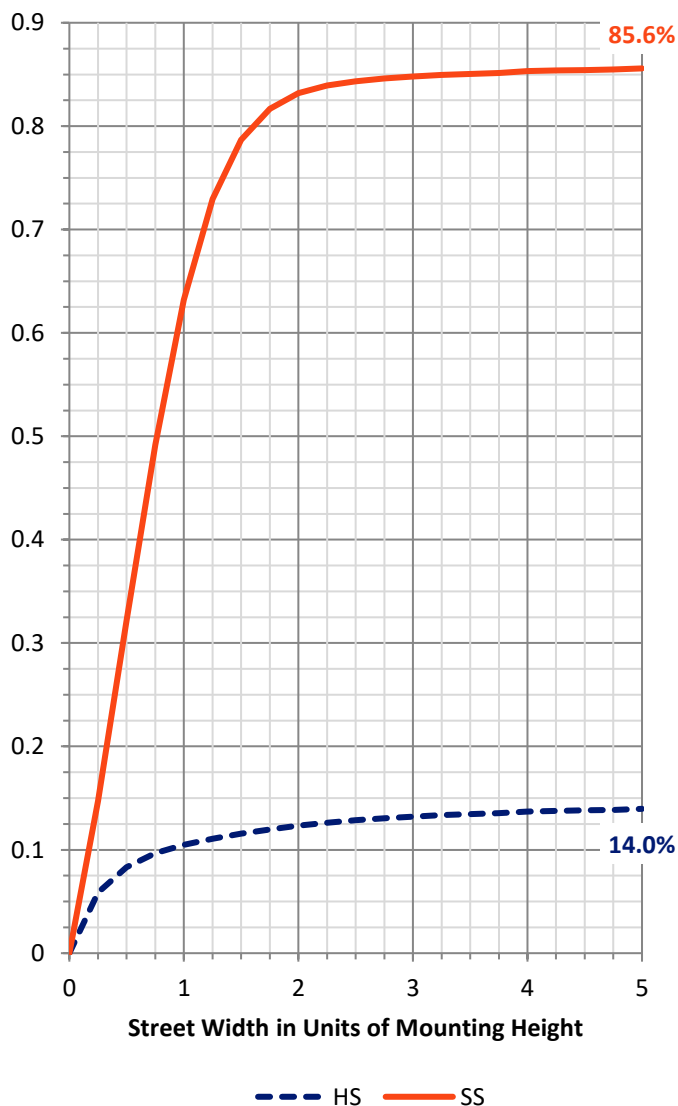
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2642.0	0.0	2642.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	15929.2	0.0	15929.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	18571.2	0.0	18571.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.1	1.2
10°-20°	825.6	4.4
20°-30°	1535.0	8.3
30°-40°	2433.3	13.1
40°-50°	3365.5	18.1
50°-60°	4139.8	22.3
60°-70°	3852.2	20.7
70°-80°	1933.0	10.4
80°-90°	266.5	1.4
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°	18571.2	100.0
0°-180°	18571.2	100.0

**Coefficient of Utilization**



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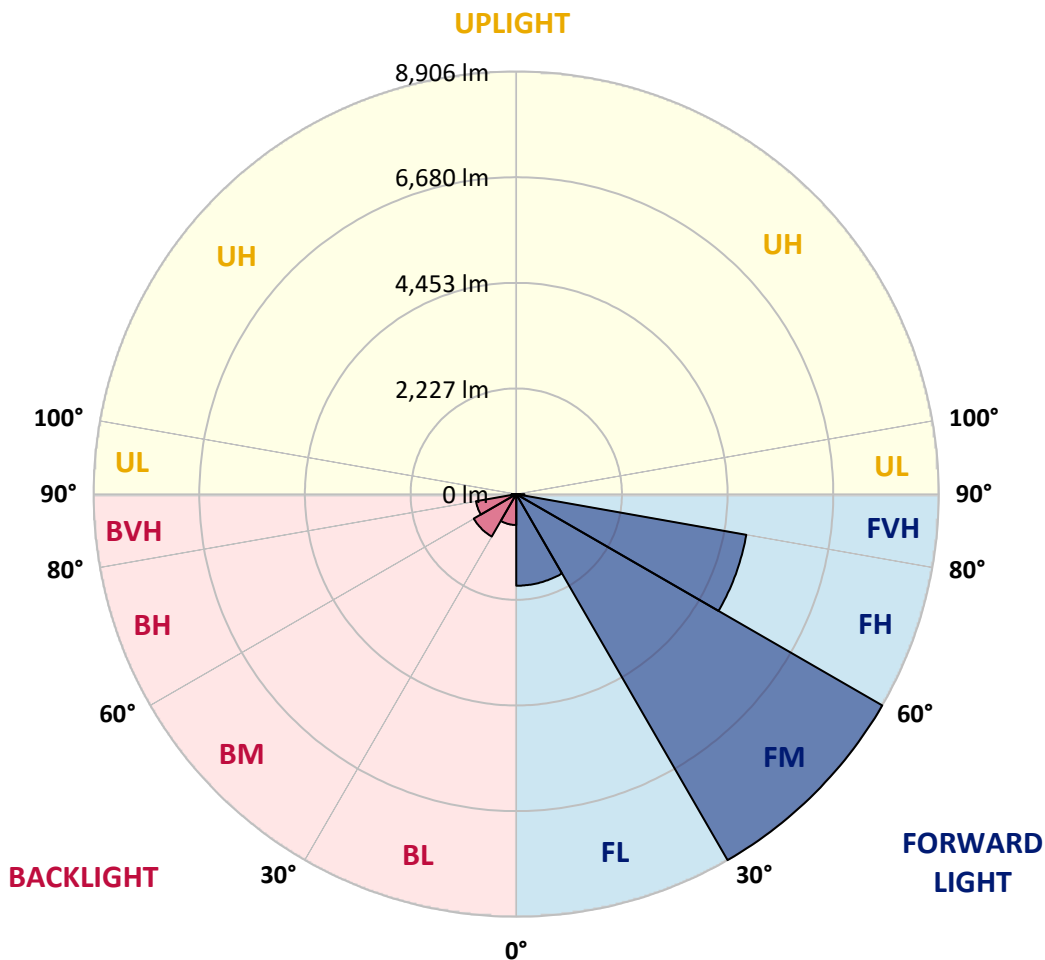
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1930.2	10.4			
FM (30°-60°)	8906.1	48.0			
FH (60°-80°)	4923.1	26.5			G2/5000
FVH (80°-90°)	169.8	0.9			G2/225
BL (0°-30°)	650.6	3.5	B2/1000		
BM (30°-60°)	1032.4	5.6	B2/2500		
BH (60°-80°)	862.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	96.7	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5
2.5°	2637.0	2605.2	2573.5	2505.7	2482.5	2419.0	2302.6	2173.5	2067.7	2052.9	1978.8
5°	3271.9	3225.3	3214.7	3176.6	3056.0	2933.2	2742.8	2535.4	2277.2	2296.2	2042.3
7.5°	3748.0	3720.5	3663.4	3627.4	3555.5	3392.5	3195.7	2920.6	2592.5	2529.0	2184.1
10°	4107.8	4069.7	4067.6	4035.9	3997.8	3830.6	3680.3	3310.0	2888.8	2802.0	2357.6
12.5°	4289.8	4283.5	4395.6	4395.6	4380.8	4311.0	4052.8	3714.2	3170.3	3140.6	2558.7
15°	4486.6	4433.7	4531.1	4605.2	4643.3	4679.2	4465.5	4107.8	3530.1	3472.9	2774.5
17.5°	4486.6	4482.4	4579.8	4702.5	4901.4	4948.0	4831.6	4469.7	3828.5	3786.1	3011.6
20°	4410.5	4471.8	4539.6	4704.6	4920.5	5108.8	5142.7	4840.1	4158.6	4124.7	3280.3
22.5°	4766.0	4706.7	4776.6	4840.1	5007.3	5293.0	5386.1	5166.0	4505.7	4376.6	3523.7
25°	5362.8	5322.6	5271.8	5178.7	5248.5	5373.4	5515.2	5407.3	4802.0	4658.1	3758.6
27.5°	5944.8	5946.9	5836.9	5633.7	5483.4	5508.8	5676.0	5618.9	5051.7	4988.2	3919.5
30°	6772.3	6721.5	6598.8	6323.6	6029.5	5788.2	5760.7	5815.7	5369.2	5246.4	4150.1
32.5°	7392.4	7403.0	7229.4	6833.7	6431.6	6234.7	5993.5	6016.8	5570.2	5479.2	4334.3
35°	7894.0	7881.3	7758.5	7430.5	6954.3	6717.3	6391.3	6258.0	6037.9	5894.0	4615.7
37.5°	8435.7	8332.0	8133.1	7762.7	7458.0	7130.0	6812.5	6512.0	6349.0	6175.5	4857.0
40°	8653.7	8653.7	8387.1	8217.8	7855.9	7608.2	7403.0	6846.4	6727.8	6694.0	5166.0
42.5°	8499.2	8594.5	8484.4	8291.8	8143.7	7830.5	7775.4	7193.4	7195.6	7127.8	5536.3
45°	8484.4	8353.2	8262.2	8310.9	8241.0	8224.1	8363.8	7673.9	7686.5	7678.1	6033.7
47.5°	8059.0	7999.8	8135.2	8215.6	8272.8	8535.2	8937.3	8247.4	8338.4	8274.9	6607.2
50°	7635.8	7625.2	7709.8	8001.9	8249.5	8681.2	9483.3	9132.0	9430.4	9426.2	7646.3
52.5°	6476.0	6588.2	6920.4	7538.4	8150.0	8880.2	9896.0	10262.1	10831.4	10985.9	8507.7
55°	5367.0	5307.8	5798.8	6696.1	7716.2	8958.5	10357.4	10941.5	11779.6	11891.7	9392.3
57.5°	4175.5	4285.6	4672.9	5534.2	6818.9	8571.2	10696.0	11612.4	12850.4	12937.2	10418.7
60°	3115.3	3130.1	3555.5	4249.6	5625.2	7697.1	10806.0	12300.2	14077.9	14325.5	11493.8
62.5°	1959.7	2048.6	2372.4	3056.0	4234.8	6473.9	10312.9	12717.1	15364.6	15430.2	12577.4
65°	1056.1	1113.2	1356.6	1786.2	2958.6	4897.2	9005.0	12467.4	15969.9	16359.3	13059.9
67°	780.9	791.5	903.7	1140.7	1978.8	3686.7	7508.8	11563.7	16245.0	16528.6	13079.0
67.5°	732.3	747.1	836.0	1024.3	1754.4	3394.6	7117.3	11242.0	16122.3	16427.0	12930.8
70°	626.4	630.7	651.8	704.7	984.1	2042.3	4846.4	9212.4	14943.5	15235.5	11891.7
72.5°	556.6	560.8	569.3	579.9	666.6	1180.9	2948.1	7089.7	12988.0	13453.6	10260.0
75°	488.9	503.7	507.9	499.5	567.2	768.2	1568.2	5210.4	10594.4	10820.9	7978.6
77.5°	414.8	421.2	429.6	438.1	505.8	573.5	753.4	3517.4	7271.7	7134.2	4315.2
80°	349.2	351.3	357.7	364.0	438.1	438.1	427.5	1900.5	3176.6	3036.9	1458.2
82.5°	249.7	264.5	279.4	296.3	364.0	294.2	279.4	846.5	1005.3	956.6	493.1
85°	97.4	118.5	184.1	203.2	230.7	158.7	186.2	366.1	419.0	414.8	184.1
87.5°	16.9	19.0	50.8	78.3	84.7	55.0	88.9	131.2	156.6	169.3	67.7
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°	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5	1900.5
2.5°	1917.4	1851.8	1773.5	1695.2	1644.4	1564.0	1557.6	1509.0	1502.6	1485.7	1494.1
5°	1932.2	1853.9	1695.2	1570.3	1513.2	1466.6	1477.2	1456.0	1449.7	1439.1	1422.2
7.5°	2048.6	1894.1	1657.1	1549.2	1506.8	1485.7	1485.7	1460.3	1441.2	1453.9	1466.6
10°	2124.8	1913.2	1686.7	1578.8	1544.9	1498.4	1515.3	1483.6	1494.1	1468.7	1468.7
12.5°	2247.6	2021.1	1748.1	1623.2	1568.2	1525.9	1542.8	1506.8	1498.4	1500.5	1494.1
15°	2412.6	2093.1	1775.6	1648.6	1610.5	1557.6	1544.9	1513.2	1481.4	1470.9	1483.6
17.5°	2567.1	2181.9	1794.7	1663.4	1602.1	1542.8	1528.0	1487.8	1477.2	1445.5	1420.1
20°	2751.2	2287.8	1820.1	1676.1	1570.3	1511.1	1473.0	1432.8	1396.8	1377.7	1386.2
22.5°	2874.0	2342.8	1832.8	1650.7	1523.8	1468.7	1388.3	1360.8	1310.0	1288.9	1271.9
25°	3075.0	2410.5	1801.0	1580.9	1441.2	1352.3	1280.4	1242.3	1206.3	1178.8	1170.3
27.5°	3125.8	2461.3	1726.9	1462.4	1310.0	1216.9	1155.5	1109.0	1085.7	1043.4	1034.9
30°	3274.0	2410.5	1616.9	1318.5	1185.2	1089.9	1028.5	994.7	939.7	929.1	905.8
32.5°	3369.2	2425.3	1477.2	1178.8	1041.2	956.6	916.4	882.5	867.7	816.9	804.2
35°	3527.9	2374.5	1335.4	1049.7	922.7	857.1	823.3	812.7	764.0	740.7	719.6
37.5°	3629.5	2344.9	1193.6	903.7	793.6	766.1	776.7	732.3	673.0	628.6	613.7
40°	3807.3	2334.3	1032.8	783.0	704.7	698.4	732.3	647.6	539.7	501.6	480.4
42.5°	4063.4	2262.4	907.9	675.1	634.9	662.4	668.8	539.7	478.3	446.5	431.7
45°	4308.9	2277.2	785.2	558.7	552.4	592.6	577.8	457.1	421.2	397.9	410.6
47.5°	4780.8	2351.3	664.5	465.6	497.3	535.4	448.7	408.5	374.6	357.7	359.8
50°	5511.0	2423.2	558.7	425.4	469.8	484.6	385.2	370.4	368.2	334.4	332.3
52.5°	5949.0	2395.7	539.7	476.2	503.7	484.6	419.0	408.5	391.5	376.7	359.8
55°	6645.3	2476.1	579.9	556.6	571.4	465.6	469.8	465.6	452.9	414.8	425.4
57.5°	7199.8	2529.0	632.8	622.2	613.7	484.6	491.0	493.1	484.6	467.7	482.5
60°	7961.7	2634.8	687.8	689.9	692.0	527.0	537.6	550.2	548.1	541.8	546.0
62.5°	8429.4	2586.2	749.2	783.0	772.5	613.7	611.6	620.1	620.1	630.7	637.0
65°	8359.5	2406.3	780.9	865.6	810.6	677.2	677.2	681.5	683.6	704.7	706.9
67°	7940.5	2084.6	764.0	878.3	810.6	702.6	702.6	706.9	692.0	747.1	730.1
67.5°	7745.8	1989.4	749.2	867.7	804.2	700.5	700.5	702.6	689.9	742.8	725.9
70°	6736.3	1477.2	645.5	768.2	745.0	681.5	681.5	668.8	658.2	728.0	713.2
72.5°	5750.1	1073.0	518.5	653.9	673.0	656.1	660.3	628.6	598.9	647.6	634.9
75°	4404.1	789.4	404.2	503.7	569.3	613.7	641.3	560.8	522.7	535.4	512.2
77.5°	2457.1	514.3	319.6	372.5	433.8	571.4	615.9	505.8	427.5	412.7	412.7
80°	833.8	300.5	234.9	277.2	298.4	505.8	575.6	410.6	336.5	321.7	311.1
82.5°	315.3	184.1	160.8	190.5	190.5	400.0	469.8	315.3	254.0	328.0	334.4
85°	143.9	110.0	105.8	110.0	110.0	245.5	332.3	205.3	228.6	196.8	173.5
87.5°	57.1	52.9	48.7	46.6	38.1	42.3	114.3	55.0	103.7	27.5	25.4
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)