

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: P478450

Luminaire Tested: **IFLD-M-SA4B-727-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478450  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

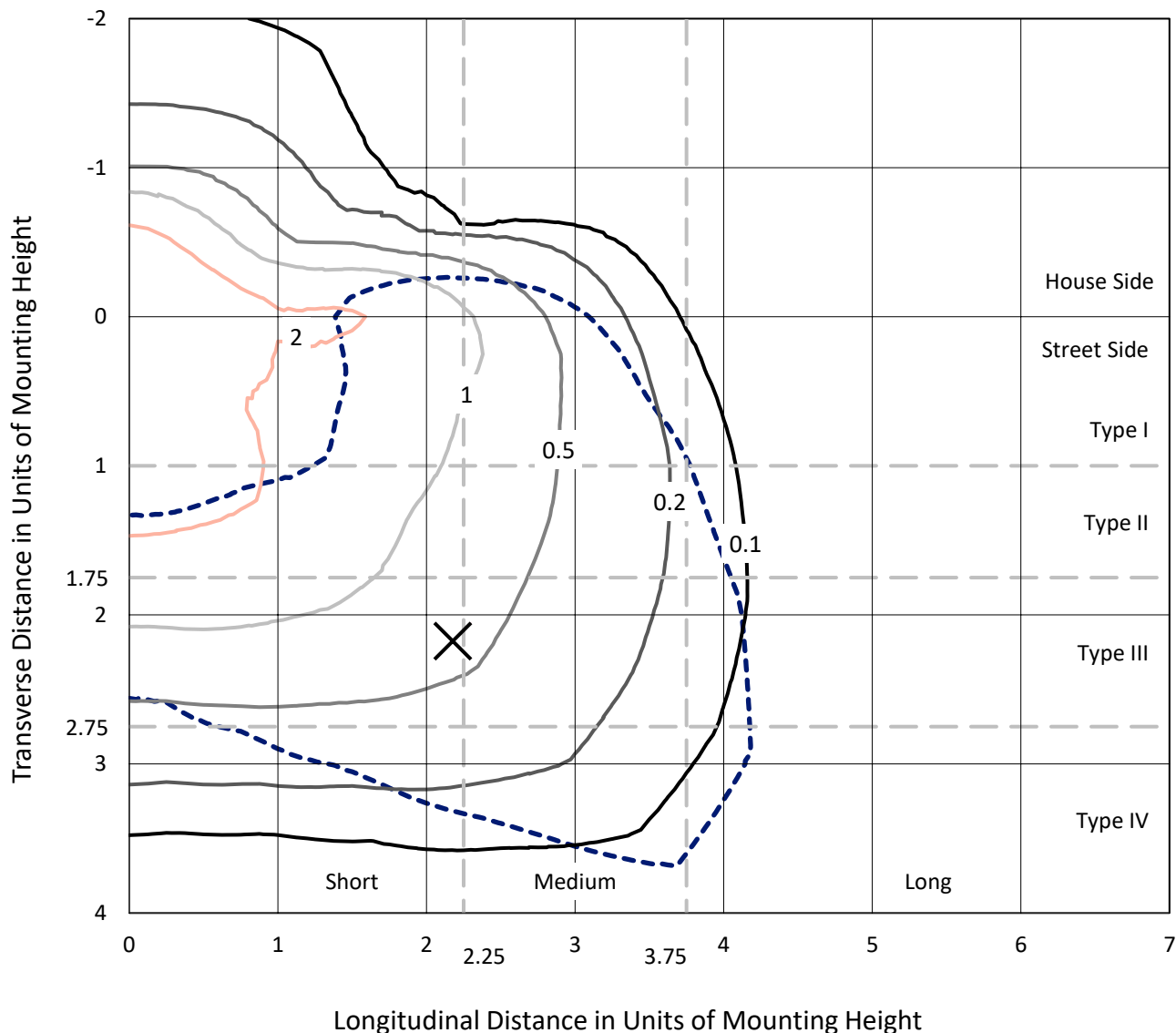
Lumens per Lamp: N/A  
Luminaire Lumens: 19306.5 lumens  
Efficiency: N/A  
Efficacy: 116.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

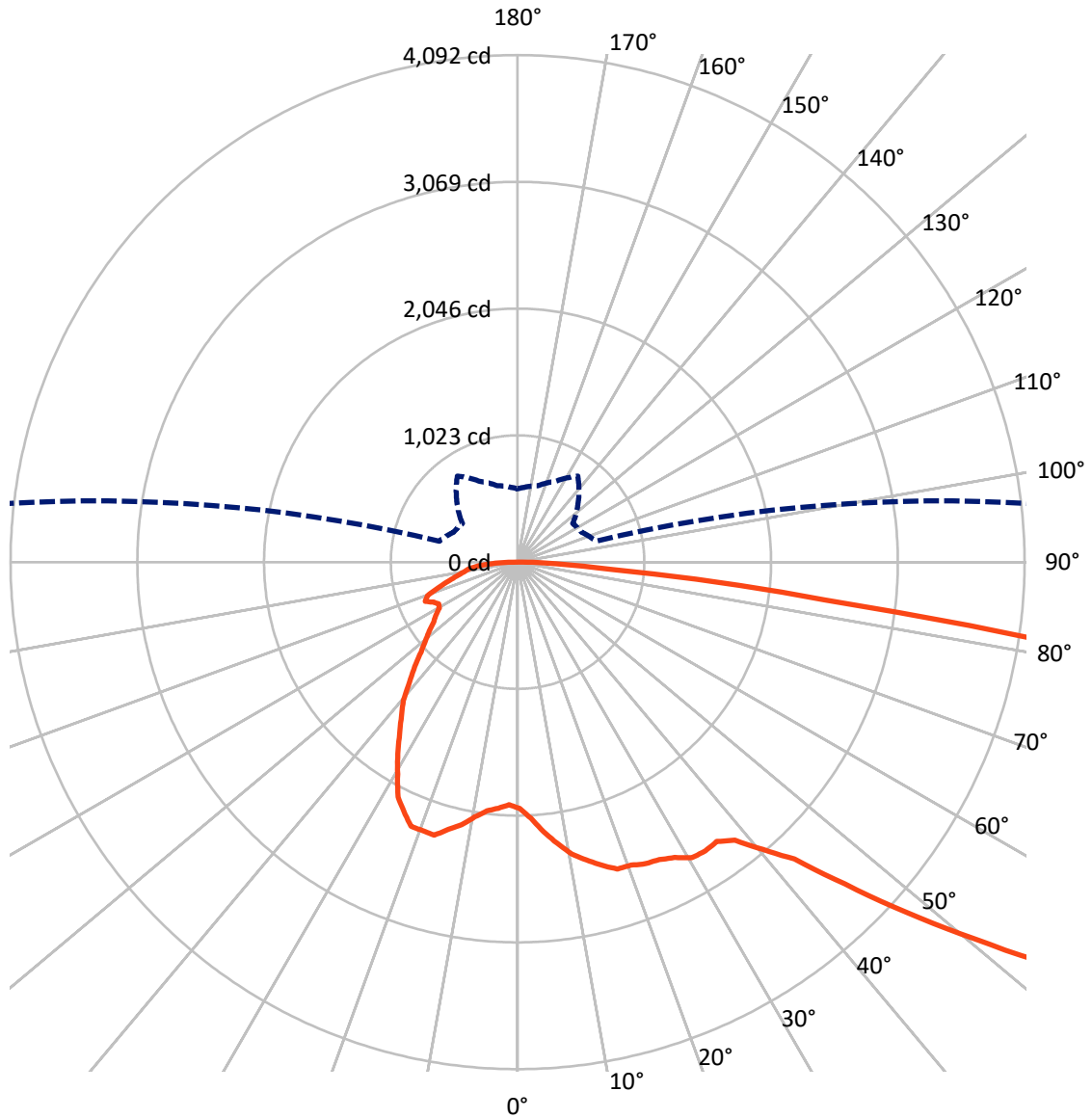
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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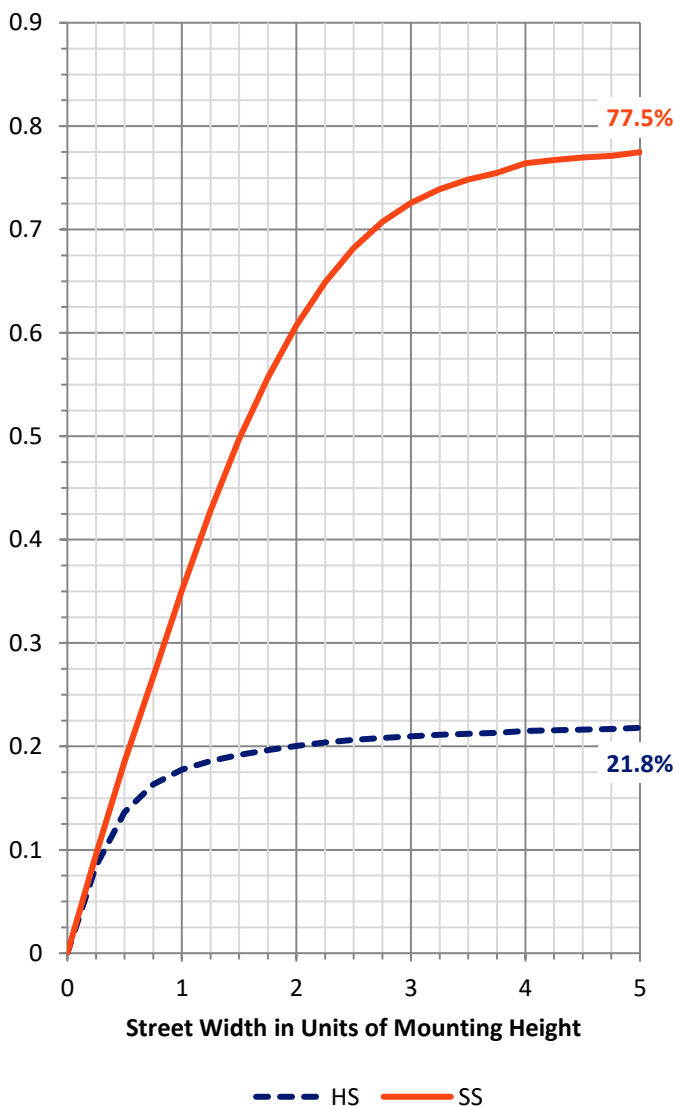
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4297.7	0.0	4297.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	15008.8	0.0	15008.8
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	19306.5	0.0	19306.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.4	1.1
10°-20°	676.9	3.5
20°-30°	1143.1	5.9
30°-40°	1581.8	8.2
40°-50°	2262.7	11.7
50°-60°	3649.4	18.9
60°-70°	5382.4	27.9
70°-80°	3908.5	20.2
80°-90°	498.2	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°	19306.5	100.0
0°-180°	19306.5	100.0

**Coefficient of Utilization**



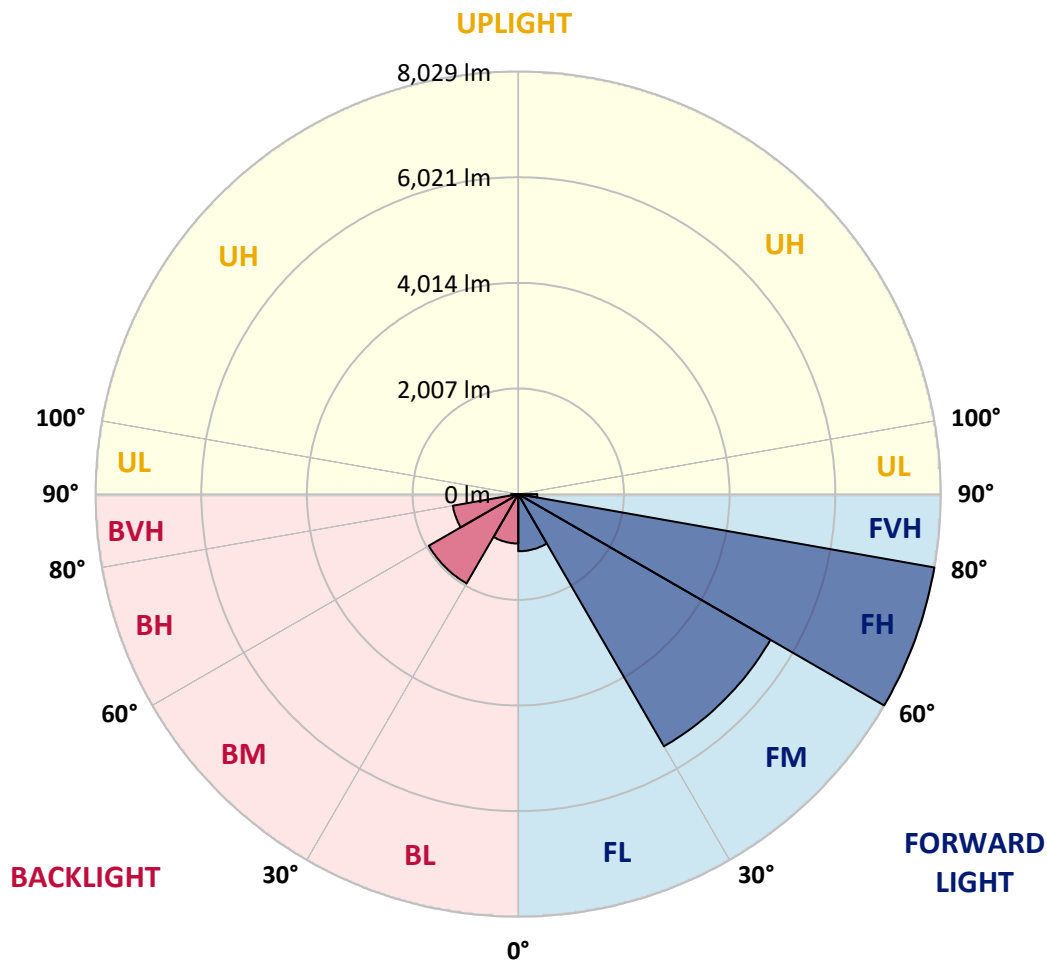
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1085.0	5.6			
FM (30°-60°)	5532.6	28.7			
FH (60°-80°)	8028.5	41.6			G4/12000
FVH (80°-90°)	362.6	1.9			G3/500
BL (0°-30°)	938.4	4.9	B2/1000		
BM (30°-60°)	1961.4	10.2	B2/2500		
BH (60°-80°)	1262.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	135.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2
2.5°	2094.4	2106.9	2094.4	2092.3	2071.5	2056.9	2069.4	2050.7	2029.9	2021.5	2002.8
5°	2285.9	2288.0	2265.1	2267.2	2223.5	2177.7	2186.0	2129.8	2069.4	2046.5	2009.0
7.5°	2481.6	2458.7	2425.4	2415.0	2346.3	2296.3	2290.1	2240.1	2146.4	2094.4	2042.4
10°	2608.6	2617.0	2562.8	2517.0	2458.7	2398.4	2396.3	2302.6	2248.5	2171.4	2104.8
12.5°	2721.1	2723.1	2677.3	2604.5	2531.6	2456.7	2467.1	2425.4	2333.8	2261.0	2194.3
15°	2808.5	2796.0	2746.0	2679.4	2602.4	2544.1	2537.8	2502.5	2425.4	2365.0	2254.7
17.5°	2833.5	2827.2	2777.3	2706.5	2631.5	2587.8	2604.5	2546.2	2514.9	2460.8	2354.6
20°	2785.6	2771.0	2762.7	2683.6	2629.5	2625.3	2610.7	2623.2	2571.2	2521.2	2444.2
22.5°	2698.2	2691.9	2687.7	2625.3	2600.3	2619.0	2644.0	2662.8	2654.4	2606.5	2519.1
25°	2608.6	2637.8	2610.7	2581.6	2617.0	2664.8	2658.6	2719.0	2719.0	2704.4	2631.5
27.5°	2671.1	2652.4	2631.5	2617.0	2629.5	2704.4	2700.2	2773.1	2800.2	2773.1	2689.8
30°	2827.2	2808.5	2748.1	2683.6	2666.9	2748.1	2768.9	2833.5	2846.0	2779.3	2708.6
32.5°	3120.8	3110.4	3014.6	2825.2	2723.1	2768.9	2779.3	2852.2	2841.8	2800.2	2771.0
35°	3555.9	3520.5	3387.3	3066.7	2841.8	2796.0	2768.9	2827.2	2866.8	2846.0	2818.9
37.5°	4032.7	3993.1	3828.6	3422.7	3056.2	2868.9	2848.1	2895.9	2941.7	2931.3	2875.1
40°	4488.6	4488.6	4340.8	3868.2	3374.8	3045.8	3050.0	2995.9	3037.5	3018.8	3029.2
42.5°	4938.3	4921.6	4861.3	4390.7	3716.2	3341.5	3274.8	3139.5	3214.5	3208.2	3222.8
45°	5394.2	5381.7	5365.1	4877.9	4205.5	3741.2	3705.8	3462.2	3530.9	3501.8	3564.2
47.5°	5758.6	5773.1	5773.1	5421.3	4728.0	4274.2	4222.1	3837.0	3968.1	3982.7	3997.3
50°	6068.8	6075.0	6068.8	5939.7	5310.9	4884.2	4778.0	4386.6	4517.7	4632.2	4765.5
52.5°	6497.6	6506.0	6476.8	6426.9	6102.1	5525.4	5406.7	4971.6	5240.2	5360.9	5600.3
55°	7026.4	6964.0	6909.9	6947.3	6862.0	6231.2	6108.3	5575.4	5979.2	6139.5	6618.4
57.5°	7124.3	7178.4	7315.8	7613.5	7736.4	6918.2	6847.4	6316.5	6814.1	6953.6	7753.0
60°	7469.9	7380.4	7717.6	8363.0	8500.4	7813.4	7740.5	7128.5	7644.8	7790.5	8800.2
62.5°	7696.8	7692.7	8192.3	8958.5	9270.7	8741.9	8594.1	8184.0	8542.1	8683.6	9941.1
65°	7630.2	7690.6	8577.5	9308.2	9914.0	9797.5	9712.1	9091.7	9564.3	9551.8	10684.4
67.5°	7022.3	7193.0	8333.9	9560.1	10871.7	11084.1	11057.0	10367.9	10395.0	10130.6	11015.4
70°	6179.1	6120.8	7303.3	9297.8	11350.6	12610.1	12603.9	11317.3	11142.4	10257.6	10066.0
72°	4746.8	4682.2	5654.5	7984.1	11098.7	13220.1	13407.5	11975.1	11134.0	9730.8	8315.1
72.5°	4309.6	4253.3	5221.4	7515.7	10819.7	13378.3	13290.9	12000.1	11046.6	9483.1	7767.6
75°	1984.1	1919.5	2608.6	4601.0	8440.1	11854.4	12152.1	11229.8	9647.6	7549.0	4653.1
77.5°	591.3	572.5	839.0	1857.1	4905.0	8733.6	8848.1	8473.4	6735.0	4134.7	1725.9
80°	328.9	331.0	433.0	695.4	2156.9	5048.6	5460.8	5233.9	3304.0	1365.7	574.6
82.5°	183.2	193.6	270.6	412.2	991.0	2317.2	2494.1	2404.6	1195.0	641.2	314.4
85°	95.8	99.9	141.6	220.7	562.1	732.8	753.7	807.8	620.4	437.2	168.6
87.5°	37.5	37.5	52.0	91.6	208.2	226.9	204.0	247.7	356.0	283.1	83.3
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°	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2	1988.2
2.5°	2019.5	2002.8	2000.7	1973.6	1982.0	1959.1	1961.2	1957.0	1959.1	1954.9	1944.5
5°	2009.0	1996.6	1961.2	1984.1	1963.2	1992.4	2015.3	2007.0	2013.2	2011.1	2013.2
7.5°	2023.6	2007.0	2002.8	1990.3	2009.0	2021.5	2040.3	2092.3	2088.2	2094.4	2106.9
10°	2067.3	2048.6	2036.1	2054.8	2044.4	2084.0	2104.8	2131.9	2179.8	2181.8	2156.9
12.5°	2152.7	2140.2	2115.2	2119.4	2154.8	2167.3	2179.8	2196.4	2227.6	2221.4	2244.3
15°	2250.5	2223.5	2208.9	2204.7	2213.1	2227.6	2225.6	2242.2	2258.9	2273.4	2267.2
17.5°	2321.3	2285.9	2290.1	2310.9	2308.8	2304.7	2277.6	2269.3	2277.6	2285.9	2281.8
20°	2394.2	2398.4	2367.1	2348.4	2340.1	2298.4	2277.6	2252.6	2227.6	2240.1	2258.9
22.5°	2485.8	2467.1	2421.3	2365.0	2323.4	2298.4	2233.9	2190.2	2190.2	2202.7	2196.4
25°	2589.9	2550.3	2471.2	2369.2	2317.2	2211.0	2165.2	2158.9	2142.3	2161.0	2169.3
27.5°	2671.1	2635.7	2527.4	2354.6	2211.0	2125.6	2098.6	2090.2	2117.3	2119.4	2152.7
30°	2704.4	2694.0	2535.8	2317.2	2102.7	1965.3	1948.7	1986.1	2015.3	2059.0	2061.1
32.5°	2748.1	2752.3	2548.3	2229.7	1961.2	1823.8	1798.8	1844.6	1927.8	1963.2	1990.3
35°	2821.0	2841.8	2537.8	2121.5	1811.3	1680.1	1675.9	1688.4	1769.6	1832.1	1867.5
37.5°	2948.0	2943.8	2535.8	1992.4	1692.6	1555.2	1521.9	1526.0	1580.2	1632.2	1626.0
40°	3118.7	3102.0	2529.5	1823.8	1538.5	1449.0	1392.8	1372.0	1367.8	1353.2	1357.4
42.5°	3351.9	3318.6	2527.4	1653.0	1399.0	1303.3	1263.7	1209.6	1170.0	1095.1	1099.2
45°	3676.7	3618.4	2473.3	1492.7	1261.6	1182.5	1122.1	1082.6	997.2	903.5	903.5
47.5°	4178.4	3988.9	2475.4	1315.8	1128.4	1063.9	1022.2	953.5	861.9	787.0	778.6
50°	4917.5	4484.4	2404.6	1176.3	1020.1	976.4	932.7	853.6	766.1	714.1	720.3
52.5°	5871.0	5223.5	2402.5	1051.4	934.8	903.5	855.7	784.9	720.3	687.0	674.5
55°	7007.7	6202.0	2477.5	949.4	847.3	830.7	809.9	751.6	689.1	660.0	657.9
57.5°	8171.5	7157.6	2598.2	876.5	772.4	784.9	770.3	724.5	674.5	641.2	637.1
60°	9206.2	7915.4	2354.6	789.0	705.8	732.8	753.7	714.1	687.0	684.9	670.4
62.5°	9986.9	8240.2	1790.4	722.4	670.4	720.3	776.6	801.5	789.0	805.7	807.8
65°	10272.1	8044.5	1232.5	687.0	643.3	749.5	874.4	866.1	793.2	762.0	778.6
67.5°	9872.4	7251.3	914.0	645.4	624.6	809.9	930.6	826.5	716.2	712.0	699.5
70°	8490.0	6145.8	745.3	601.7	593.3	776.6	905.6	766.1	674.5	647.5	635.0
72°	6764.1	4786.3	653.7	570.4	543.4	693.3	847.3	718.3	639.1	605.8	591.3
72.5°	6174.9	4436.5	641.2	555.9	533.0	674.5	818.2	703.7	630.8	601.7	578.8
75°	3387.3	2271.4	564.2	510.1	449.7	582.9	757.8	660.0	595.4	553.8	549.6
77.5°	1259.6	880.6	487.2	451.8	389.3	503.8	689.1	626.7	541.3	489.2	478.8
80°	483.0	464.3	397.6	381.0	326.9	441.4	635.0	562.1	460.1	408.1	391.4
82.5°	293.5	270.6	301.9	297.7	249.8	401.8	597.5	526.7	408.1	331.0	320.6
85°	160.3	160.3	210.3	201.9	174.9	320.6	451.8	349.8	258.2	212.4	216.5
87.5°	70.8	83.3	112.4	106.2	95.8	181.1	220.7	185.3	129.1	87.4	93.7
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)