

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: P481414

Luminaire Tested: **IFLD-M-SA4B-827-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481414  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-827-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

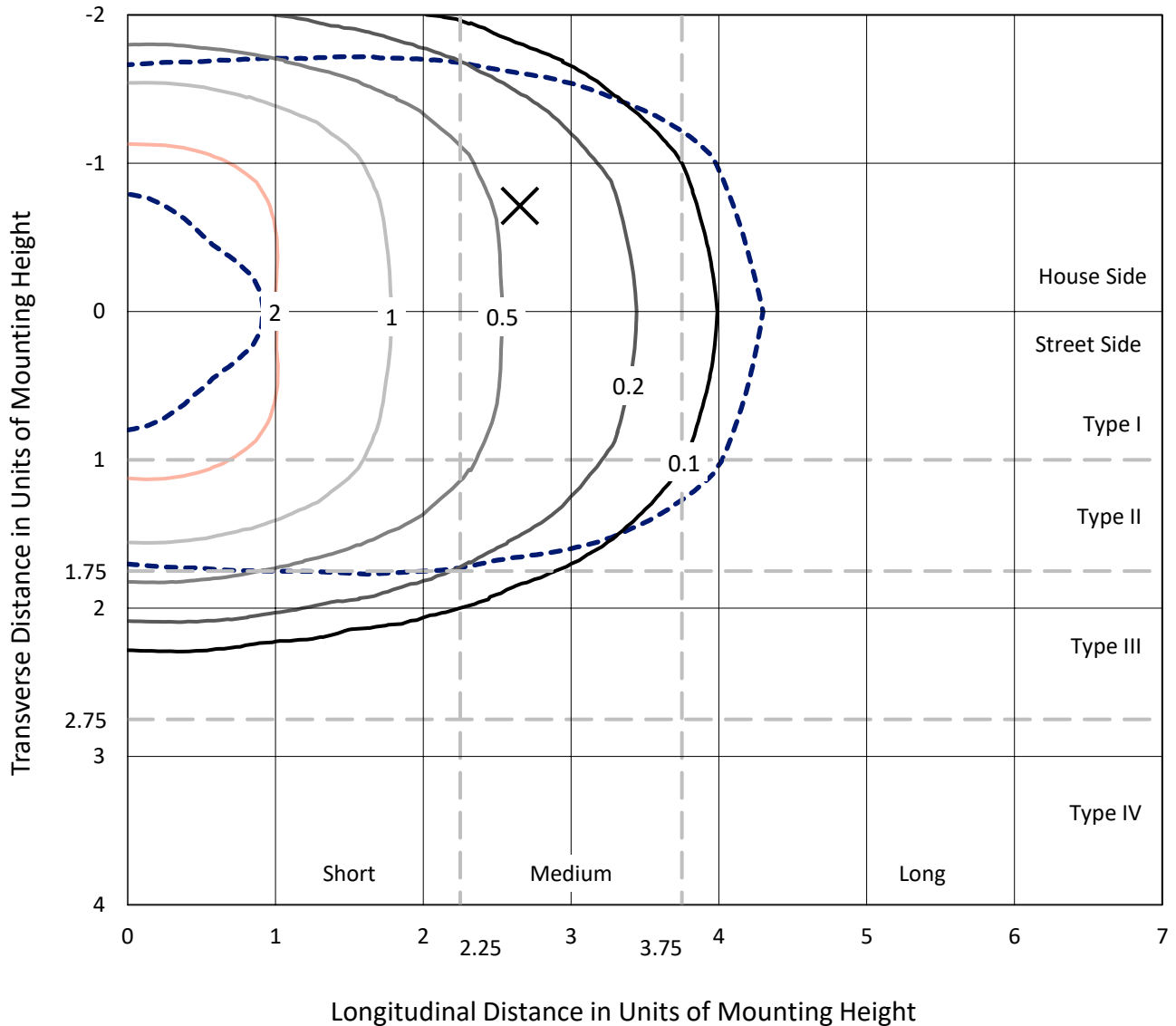
Lumens per Lamp: N/A  
Luminaire Lumens: 17293.4 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 166.1  
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

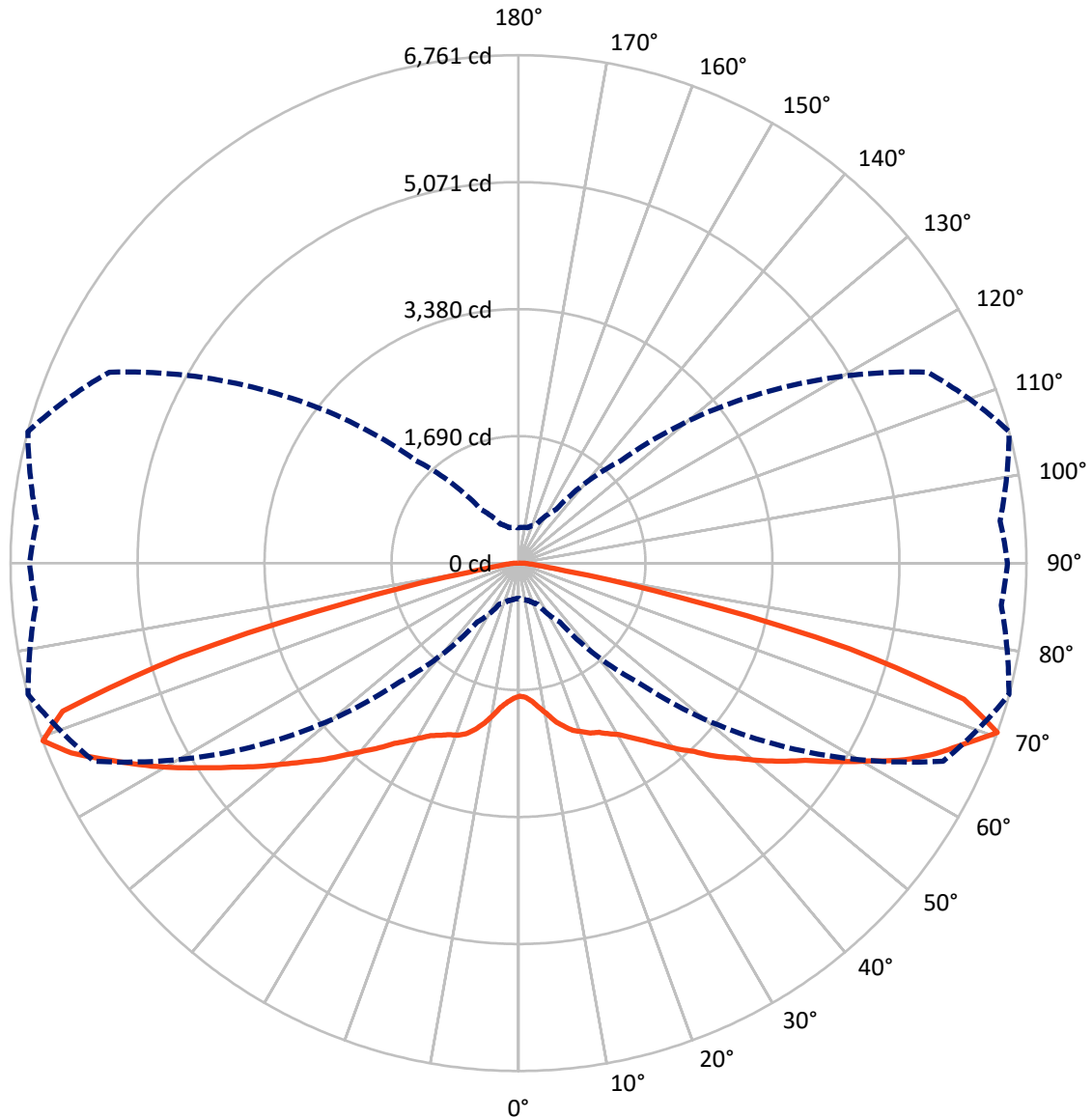
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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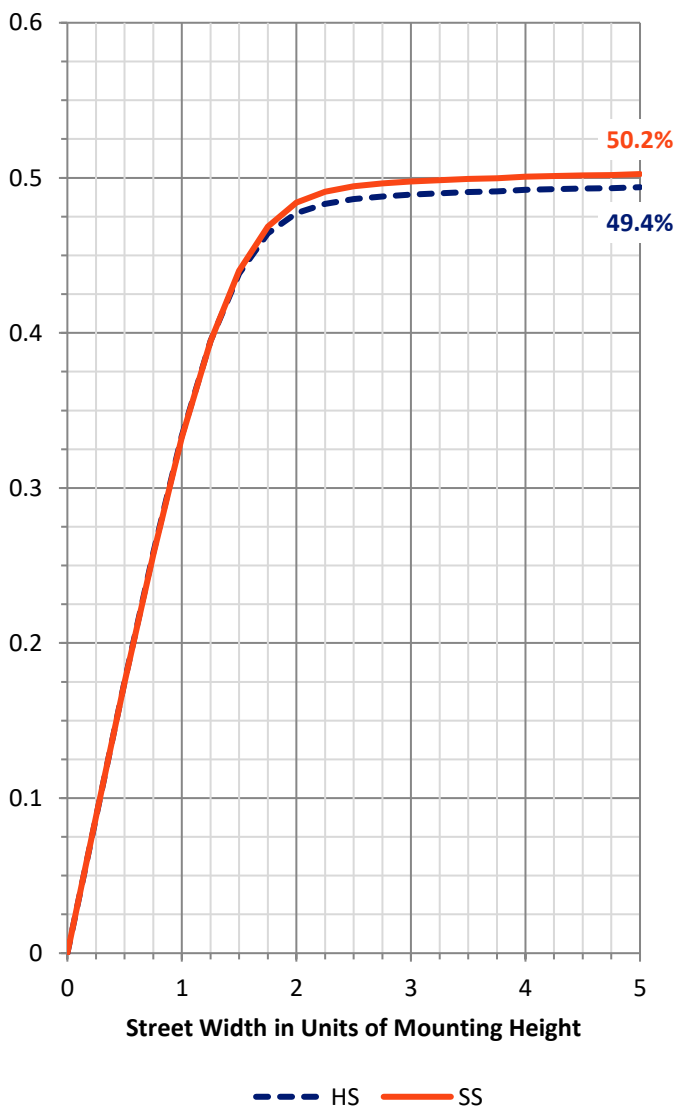
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8585.2	0.0	8585.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	8708.2	0.0	8708.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	17293.4	0.0	17293.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.3	1.0
10°-20°	600.1	3.5
20°-30°	1162.1	6.7
30°-40°	1965.5	11.4
40°-50°	3135.6	18.1
50°-60°	4292.0	24.8
60°-70°	4045.5	23.4
70°-80°	1782.2	10.3
80°-90°	134.1	0.8
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°	17293.4	100.0
0°-180°	17293.4	100.0

**Coefficient of Utilization**

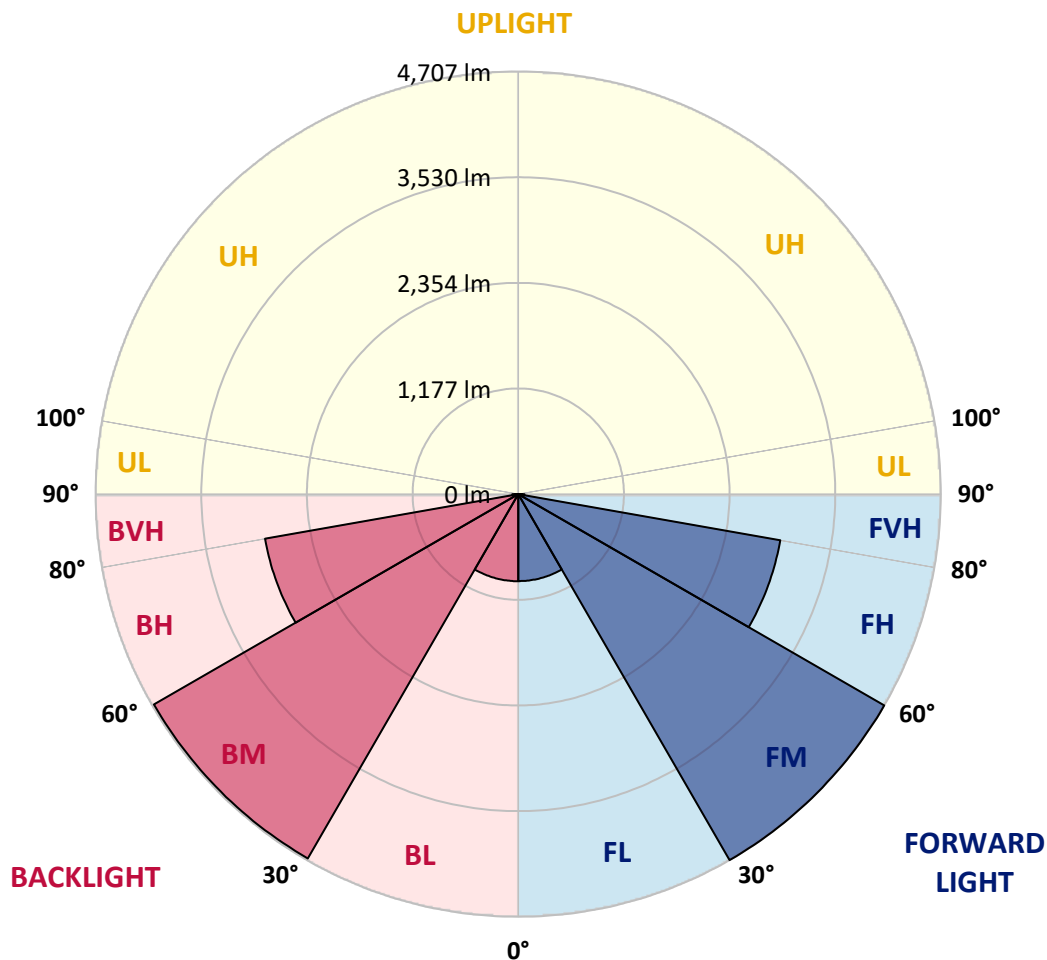


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.7	5.6			
FM (30°-60°)	4707.1	27.2			
FH (60°-80°)	2963.9	17.1			G2/5000
FVH (80°-90°)	68.5	0.4			G1/100
BL (0°-30°)	969.8	5.6	B2/1000		
BM (30°-60°)	4686.1	27.1	B3/5000		
BH (60°-80°)	2863.8	16.6	B4/5000		G4/5000
BVH (80°-90°)	65.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8
2.5°	1759.6	1759.6	1757.8	1767.1	1776.4	1780.1	1787.6	1789.5	1800.7	1791.3	1810.0
5°	1754.1	1752.2	1767.1	1789.5	1789.5	1813.7	1828.6	1849.1	1854.7	1865.9	1869.6
7.5°	1793.2	1789.5	1782.0	1806.2	1826.7	1864.0	1884.5	1920.0	1933.0	1947.9	1964.7
10°	1817.4	1817.4	1810.0	1852.8	1871.5	1921.8	1966.6	2002.0	2052.3	2069.1	2070.9
12.5°	1821.2	1826.7	1849.1	1905.0	1957.2	2022.5	2056.0	2123.1	2173.5	2205.1	2216.3
15°	1877.1	1865.9	1890.1	1966.6	2043.0	2100.8	2160.4	2208.9	2281.6	2322.6	2348.7
17.5°	1927.4	1916.2	1961.0	2052.3	2130.6	2220.1	2272.3	2324.4	2376.6	2413.9	2415.8
20°	2007.6	2016.9	2056.0	2154.8	2257.3	2335.6	2395.3	2404.6	2430.7	2484.8	2475.4
22.5°	2106.4	2098.9	2180.9	2289.0	2400.9	2466.1	2499.7	2475.4	2462.4	2520.2	2533.2
25°	2205.1	2227.5	2302.1	2402.7	2536.9	2624.6	2633.9	2566.8	2518.3	2538.8	2533.2
27.5°	2356.1	2359.9	2438.2	2557.4	2693.5	2769.9	2764.4	2669.3	2576.1	2578.0	2581.7
30°	2550.0	2531.4	2617.1	2725.2	2859.4	2928.4	2937.7	2801.6	2676.7	2639.5	2648.8
32.5°	2736.4	2758.8	2833.3	2956.4	3055.1	3094.3	3073.8	2952.6	2790.5	2740.1	2745.7
35°	2975.0	2971.3	3073.8	3178.2	3252.7	3260.2	3243.4	3066.3	2913.5	2848.2	2822.1
37.5°	3230.4	3263.9	3331.0	3416.8	3495.1	3498.8	3407.4	3265.8	3077.5	2969.4	3001.1
40°	3515.6	3552.8	3601.3	3726.2	3784.0	3724.3	3631.1	3439.1	3243.4	3148.3	3163.3
42.5°	3767.2	3784.0	3882.8	4030.0	4058.0	4031.9	3894.0	3661.0	3433.5	3329.2	3336.6
45°	3998.3	4020.7	4149.3	4281.7	4346.9	4302.2	4141.9	3920.1	3655.4	3565.9	3530.5
47.5°	4210.8	4255.6	4380.5	4516.5	4617.2	4620.9	4423.3	4154.9	3875.3	3757.9	3756.0
50°	4354.4	4419.6	4542.6	4697.4	4844.6	4902.4	4704.8	4415.9	4115.8	3990.9	3977.8
52.5°	4432.7	4499.8	4622.8	4863.3	5027.3	5116.8	5023.6	4660.1	4397.2	4266.8	4246.3
55°	4337.6	4382.3	4583.6	4921.0	5174.5	5321.8	5260.3	4997.5	4676.9	4570.6	4589.2
57.5°	3933.1	4026.3	4274.2	4695.5	5170.8	5532.4	5526.8	5316.2	4999.3	4898.7	4902.4
60°	3237.8	3316.1	3621.8	4210.8	4962.0	5618.2	5815.8	5625.6	5360.9	5243.5	5239.8
62.5°	2285.3	2384.1	2738.3	3381.4	4346.9	5498.9	6147.6	6015.2	5715.1	5629.4	5661.1
65°	1278.7	1338.4	1666.4	2248.0	3312.4	4842.7	6207.2	6419.7	6074.9	5944.4	5950.0
67.5°	684.1	706.5	859.3	1179.9	2026.2	3733.7	5605.1	6652.7	6464.5	6238.9	6203.5
70°	469.7	477.2	516.3	603.9	958.1	2233.1	4227.6	6237.0	6757.1	6449.5	6509.2
72.5°	397.0	393.3	402.6	412.0	501.4	999.1	2481.0	4799.9	6378.7	6263.1	6240.8
75°	344.8	343.0	346.7	337.4	348.6	439.9	1097.9	2991.8	4669.4	5211.8	5295.7
77.5°	285.2	287.1	288.9	279.6	275.9	290.8	441.8	1314.1	2298.3	2536.9	2736.4
80°	216.2	220.0	234.9	225.5	210.6	212.5	261.0	439.9	659.9	598.4	617.0
82.5°	147.3	149.1	180.8	169.6	158.4	143.5	167.8	227.4	257.2	195.7	171.5
85°	104.4	102.5	117.4	108.1	100.7	72.7	100.7	128.6	154.7	96.9	87.6
87.5°	24.2	24.2	48.5	39.1	37.3	29.8	39.1	50.3	67.1	42.9	39.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8	1770.8
2.5°	1804.4	1787.6	1787.6	1783.9	1769.0	1765.2	1752.2	1755.9	1746.6	1737.3
5°	1867.8	1845.4	1845.4	1813.7	1783.9	1780.1	1765.2	1765.2	1750.3	1754.1
7.5°	1955.4	1934.9	1901.3	1873.4	1832.3	1815.6	1787.6	1783.9	1780.1	1772.7
10°	2059.8	2033.7	2000.1	1942.3	1908.8	1877.1	1849.1	1810.0	1800.7	1802.5
12.5°	2201.4	2160.4	2087.7	2037.4	1994.5	1953.5	1912.5	1854.7	1841.7	1847.3
15°	2302.1	2249.9	2177.2	2158.5	2100.8	2050.4	1983.3	1918.1	1895.7	1890.1
17.5°	2384.1	2341.2	2298.3	2270.4	2223.8	2162.3	2069.1	1994.5	1944.2	1938.6
20°	2451.2	2395.3	2386.0	2402.7	2344.9	2303.9	2190.2	2098.9	2031.8	2003.8
22.5°	2492.2	2456.8	2482.9	2497.8	2494.1	2425.1	2307.7	2201.4	2117.5	2091.4
25°	2536.9	2495.9	2589.1	2639.5	2652.5	2538.8	2447.5	2307.7	2225.7	2208.9
27.5°	2559.3	2574.2	2682.3	2788.6	2779.3	2691.7	2568.6	2443.7	2378.5	2348.7
30°	2624.6	2648.8	2812.8	2932.1	2934.0	2848.2	2755.0	2613.4	2540.7	2527.6
32.5°	2742.0	2771.8	2947.0	3073.8	3096.2	3030.9	2937.7	2850.1	2775.5	2745.7
35°	2831.5	2907.9	3105.5	3221.0	3280.7	3241.5	3189.4	3098.0	3019.7	2993.6
37.5°	2960.1	3066.3	3256.5	3413.0	3480.1	3476.4	3437.3	3338.5	3273.2	3250.9
40°	3144.6	3250.9	3424.2	3631.1	3756.0	3750.4	3728.1	3651.6	3554.7	3543.5
42.5°	3340.3	3428.0	3653.5	3890.2	4069.2	4050.5	3990.9	3901.4	3834.3	3819.4
45°	3530.5	3666.5	3875.3	4179.2	4313.4	4360.0	4289.1	4136.3	4059.9	4050.5
47.5°	3769.1	3877.2	4138.1	4410.3	4609.7	4617.2	4496.0	4354.4	4214.6	4244.4
50°	3981.6	4125.1	4389.8	4688.0	4926.6	4840.9	4686.2	4509.1	4408.4	4369.3
52.5°	4209.0	4384.2	4691.8	4995.6	5127.9	5042.2	4790.6	4593.0	4440.1	4423.3
55°	4540.8	4632.1	5034.7	5267.7	5310.6	5129.8	4758.9	4479.3	4281.7	4233.2
57.5°	4878.2	4984.4	5336.7	5538.0	5493.3	5081.3	4553.8	4121.4	3862.3	3793.3
60°	5219.3	5349.8	5646.1	5830.7	5599.5	4747.7	3974.1	3416.8	3114.8	3053.3
62.5°	5599.5	5769.2	6033.9	6099.1	5284.5	4087.8	3153.9	2466.1	2160.4	2057.9
65°	5936.9	6110.3	6436.5	6043.2	4615.3	3049.6	2039.2	1409.2	1183.7	1101.6
67.5°	6214.7	6410.4	6570.7	5347.9	3379.5	1785.7	1062.5	741.9	658.0	628.2
70°	6434.6	6760.8	6011.5	3931.2	1931.1	870.5	574.1	488.4	477.2	469.7
72.5°	6242.6	6199.8	4488.6	2268.5	846.3	479.1	415.7	402.6	400.8	402.6
75°	5105.6	4553.8	2684.2	986.1	425.0	346.7	344.8	339.3	348.6	348.6
77.5°	2477.3	2166.0	1122.1	423.1	279.6	272.1	281.5	281.5	281.5	281.5
80°	574.1	635.6	400.8	257.2	203.2	203.2	223.7	225.5	216.2	212.5
82.5°	195.7	261.0	220.0	162.2	134.2	151.0	169.6	173.4	143.5	145.4
85°	96.9	152.9	119.3	93.2	69.0	93.2	110.0	115.6	98.8	95.1
87.5°	44.7	67.1	44.7	31.7	24.2	33.6	31.7	26.1	14.9	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)