

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: P481218

Luminaire Tested: **IFLD-M-SA4A-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481218
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

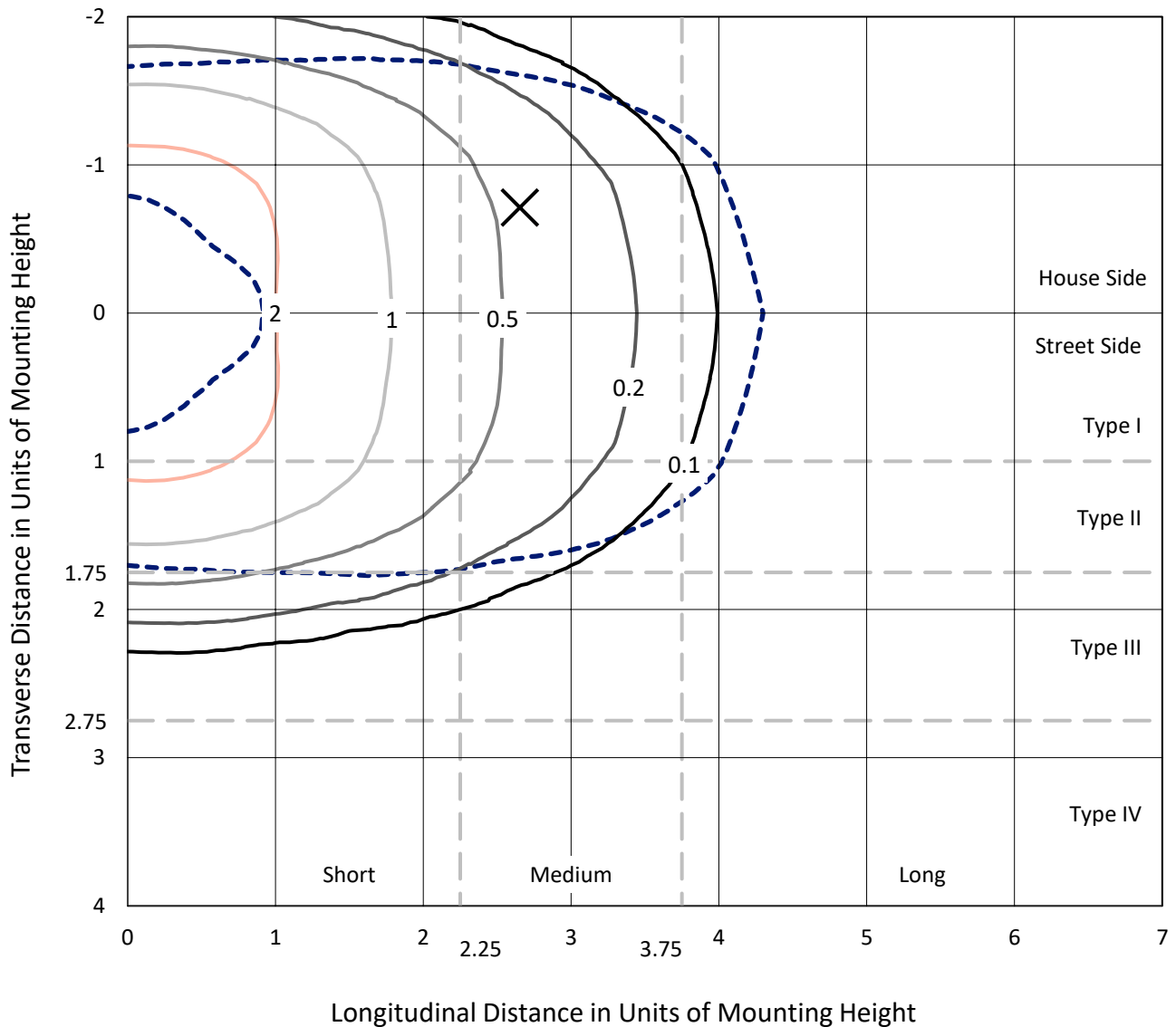
Lumens per Lamp: N/A
Luminaire Lumens: 17321.3 lumens
Efficiency: N/A
Efficacy: 134.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 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

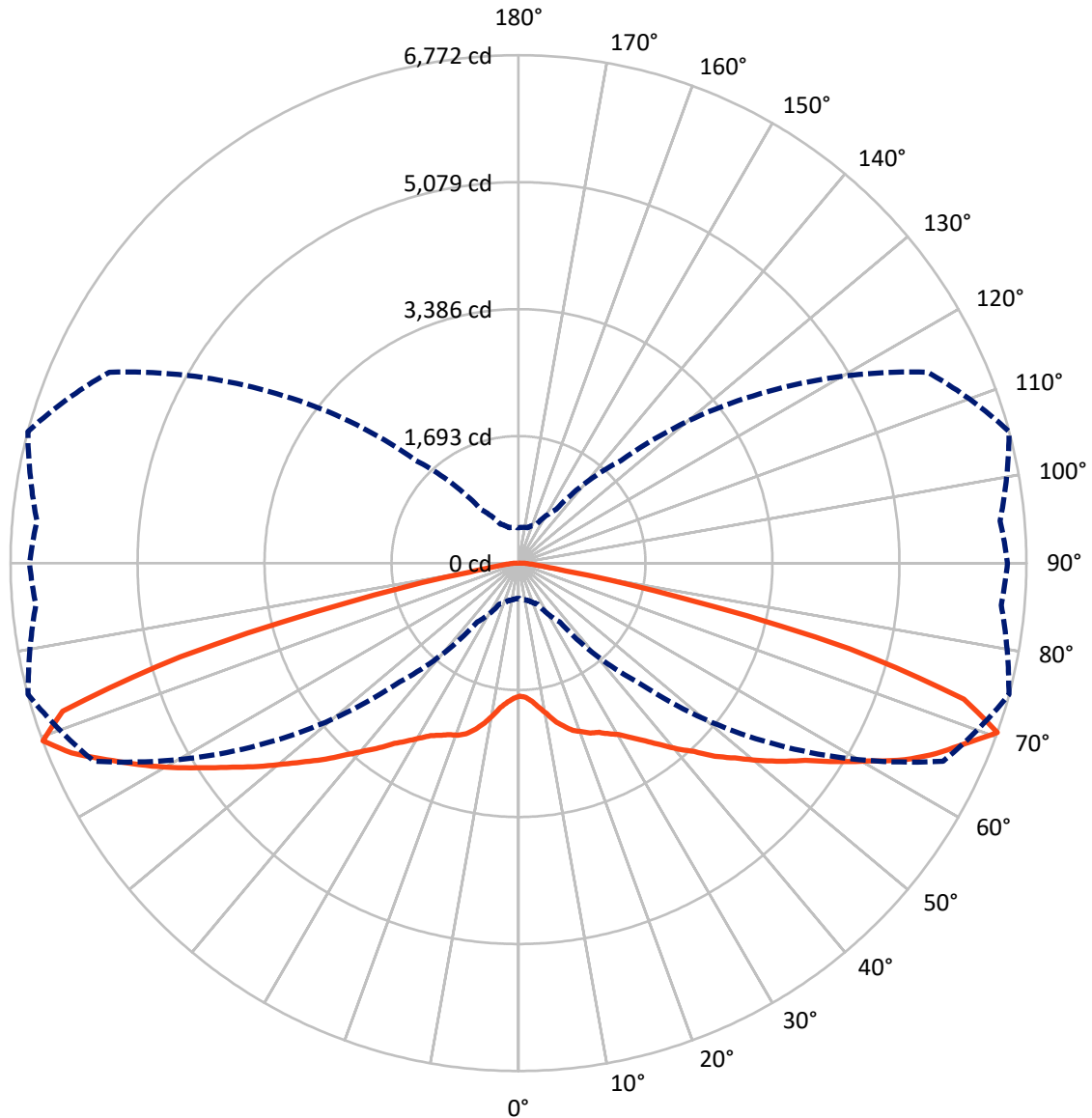
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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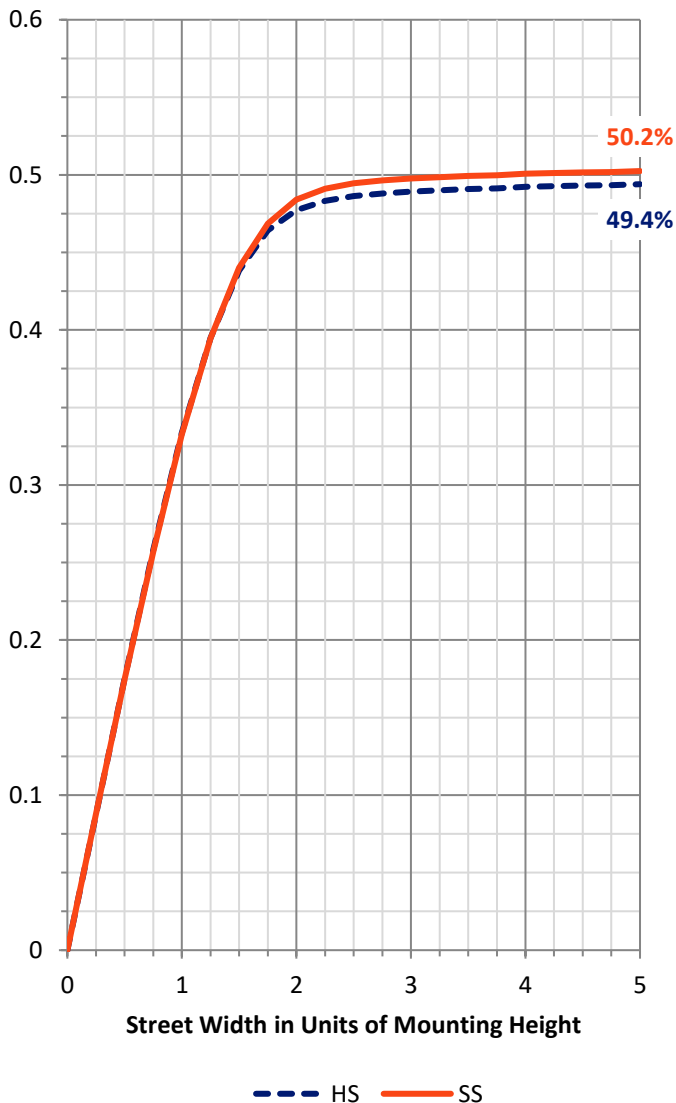
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8599.1	0.0	8599.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	8722.3	0.0	8722.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	17321.3	0.0	17321.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.5	1.0
10°-20°	601.1	3.5
20°-30°	1163.9	6.7
30°-40°	1968.7	11.4
40°-50°	3140.7	18.1
50°-60°	4298.9	24.8
60°-70°	4052.0	23.4
70°-80°	1785.0	10.3
80°-90°	134.3	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°	17321.3	100.0
0°-180°	17321.3	100.0

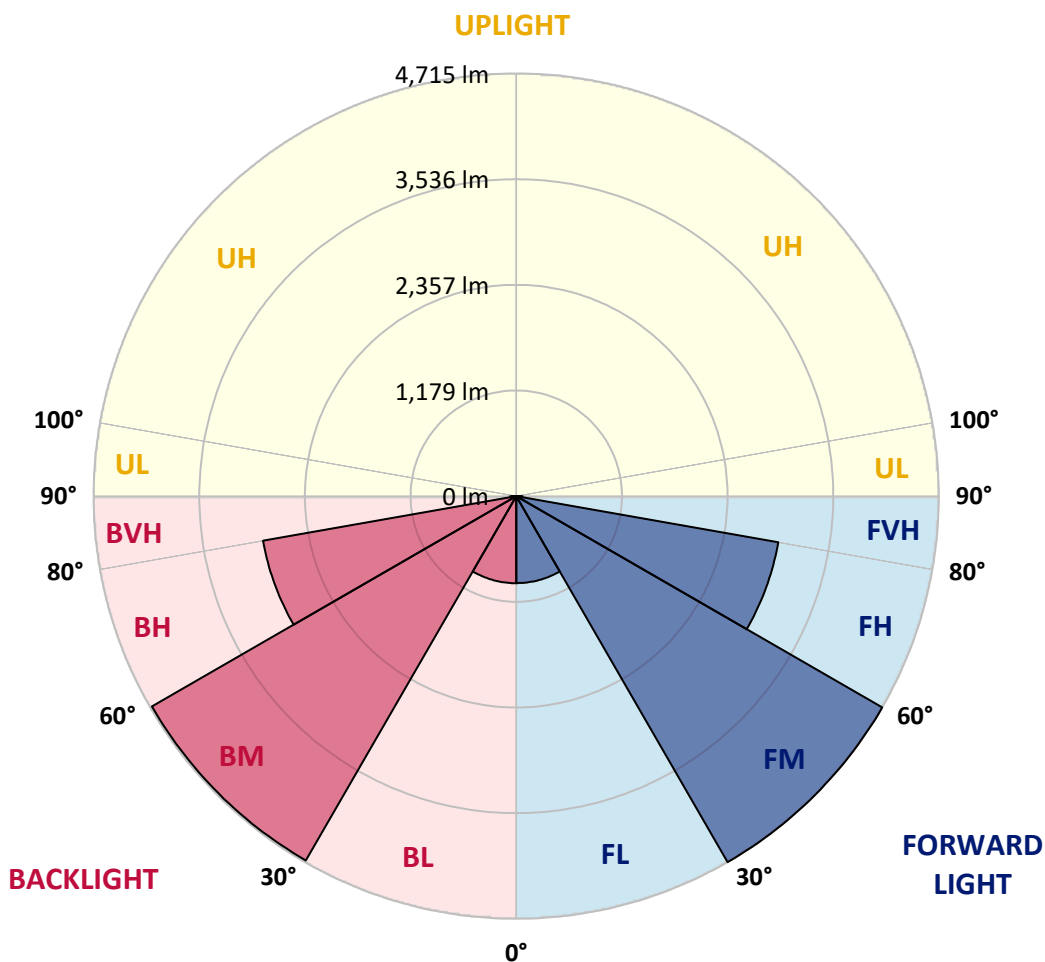


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.3	5.6			
FM (30°-60°)	4714.7	27.2			
FH (60°-80°)	2968.7	17.1			G2/5000
FVH (80°-90°)	68.6	0.4			G1/100
BL (0°-30°)	971.3	5.6	B2/1000		
BM (30°-60°)	4693.6	27.1	B3/5000		
BH (60°-80°)	2868.4	16.6	B4/5000		G4/5000
BVH (80°-90°)	65.7	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°	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7
2.5°	1762.5	1762.5	1760.6	1770.0	1779.3	1783.0	1790.5	1792.4	1803.6	1794.2	1812.9
5°	1756.9	1755.0	1770.0	1792.4	1792.4	1816.6	1831.6	1852.1	1857.7	1868.9	1872.6
7.5°	1796.1	1792.4	1784.9	1809.2	1829.7	1867.0	1887.6	1923.1	1936.1	1951.1	1967.9
10°	1820.4	1820.4	1812.9	1855.8	1874.5	1924.9	1969.7	2005.2	2055.6	2072.4	2074.3
12.5°	1824.1	1829.7	1852.1	1908.1	1960.4	2025.7	2059.3	2126.6	2177.0	2208.7	2219.9
15°	1880.1	1868.9	1893.2	1969.7	2046.3	2104.2	2163.9	2212.4	2285.3	2326.3	2352.5
17.5°	1930.5	1919.3	1964.1	2055.6	2134.0	2223.6	2275.9	2328.2	2380.5	2417.8	2419.7
20°	2010.8	2020.1	2059.3	2158.3	2261.0	2339.4	2399.1	2408.5	2434.6	2488.8	2479.4
22.5°	2109.8	2102.3	2184.4	2292.7	2404.7	2470.1	2503.7	2479.4	2466.4	2524.2	2537.3
25°	2208.7	2231.1	2305.8	2406.6	2541.0	2628.8	2638.1	2570.9	2522.4	2542.9	2537.3
27.5°	2359.9	2363.7	2442.1	2561.6	2697.9	2774.4	2768.8	2673.6	2580.2	2582.1	2585.8
30°	2554.1	2535.4	2621.3	2729.6	2864.0	2933.1	2942.5	2806.2	2681.1	2643.7	2653.1
32.5°	2740.8	2763.2	2837.9	2961.1	3060.1	3099.3	3078.7	2957.4	2795.0	2744.5	2750.1
35°	2979.8	2976.1	3078.7	3183.3	3258.0	3265.5	3248.6	3071.3	2918.2	2852.8	2826.7
37.5°	3235.6	3269.2	3336.4	3422.3	3500.7	3504.4	3412.9	3271.1	3082.5	2974.2	3005.9
40°	3521.2	3558.6	3607.1	3732.2	3790.1	3730.3	3637.0	3444.7	3248.6	3153.4	3168.4
42.5°	3773.3	3790.1	3889.0	4036.5	4064.5	4038.4	3900.2	3666.9	3439.1	3334.5	3342.0
45°	4004.8	4027.2	4156.0	4288.6	4353.9	4309.1	4148.6	3926.4	3661.3	3571.6	3536.2
47.5°	4217.6	4262.5	4387.5	4523.8	4624.7	4628.4	4430.5	4161.6	3881.6	3764.0	3762.1
50°	4361.4	4426.8	4550.0	4704.9	4852.4	4910.3	4712.4	4423.0	4122.4	3997.3	3984.3
52.5°	4439.8	4507.0	4630.3	4871.1	5035.4	5125.0	5031.7	4667.6	4404.3	4273.7	4253.1
55°	4344.6	4389.4	4591.1	4929.0	5182.9	5330.4	5268.8	5005.5	4684.4	4578.0	4596.7
57.5°	3939.5	4032.8	4281.1	4703.1	5179.2	5541.4	5535.8	5324.8	5007.4	4906.6	4910.3
60°	3243.0	3321.5	3627.7	4217.6	4970.1	5627.3	5825.2	5634.7	5369.6	5252.0	5248.2
62.5°	2289.0	2387.9	2742.7	3386.8	4353.9	5507.8	6157.5	6024.9	5724.3	5638.5	5670.2
65°	1280.8	1340.5	1669.1	2251.6	3317.7	4850.6	6217.2	6430.1	6084.7	5954.0	5959.6
67.5°	685.2	707.6	860.7	1181.8	2029.5	3739.7	5614.2	6663.5	6474.9	6249.0	6213.5
70°	470.5	478.0	517.2	604.9	959.7	2236.7	4234.4	6247.1	6768.0	6460.0	6519.7
72.5°	397.7	393.9	403.3	412.6	502.2	1000.7	2485.0	4807.6	6389.0	6273.3	6250.8
75°	345.4	343.5	347.3	337.9	349.1	440.6	1099.7	2996.6	4676.9	5220.2	5304.3
77.5°	285.7	287.5	289.4	280.1	276.3	291.3	442.5	1316.3	2302.1	2541.0	2740.8
80°	216.6	220.3	235.2	225.9	211.0	212.8	261.4	440.6	660.9	599.3	618.0
82.5°	147.5	149.4	181.1	169.9	158.7	143.8	168.0	227.8	257.7	196.0	171.8
85°	104.6	102.7	117.6	108.3	100.8	72.8	100.8	128.8	155.0	97.1	87.8
87.5°	24.3	24.3	48.5	39.2	37.3	29.9	39.2	50.4	67.2	42.9	39.2
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°	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7	1773.7
2.5°	1807.3	1790.5	1790.5	1786.8	1771.8	1768.1	1755.0	1758.8	1749.4	1740.1
5°	1870.8	1848.4	1848.4	1816.6	1786.8	1783.0	1768.1	1768.1	1753.2	1756.9
7.5°	1958.5	1938.0	1904.4	1876.4	1835.3	1818.5	1790.5	1786.8	1783.0	1775.6
10°	2063.1	2036.9	2003.3	1945.5	1911.8	1880.1	1852.1	1812.9	1803.6	1805.4
12.5°	2205.0	2163.9	2091.1	2040.7	1997.7	1956.7	1915.6	1857.7	1844.6	1850.2
15°	2305.8	2253.5	2180.7	2162.0	2104.2	2053.7	1986.5	1921.2	1898.8	1893.2
17.5°	2387.9	2345.0	2302.1	2274.1	2227.4	2165.8	2072.4	1997.7	1947.3	1941.7
20°	2455.2	2399.1	2389.8	2406.6	2348.7	2307.7	2193.8	2102.3	2035.1	2007.1
22.5°	2496.2	2460.8	2486.9	2501.8	2498.1	2429.0	2311.4	2205.0	2121.0	2094.8
25°	2541.0	2500.0	2593.3	2643.7	2656.8	2542.9	2451.4	2311.4	2229.2	2212.4
27.5°	2563.4	2578.4	2686.7	2793.1	2783.8	2696.0	2572.8	2447.7	2382.3	2352.5
30°	2628.8	2653.1	2817.4	2936.9	2938.7	2852.8	2759.5	2617.6	2544.8	2531.7
32.5°	2746.4	2776.3	2951.8	3078.7	3101.2	3035.8	2942.5	2854.7	2780.0	2750.1
35°	2836.0	2912.6	3110.5	3226.2	3286.0	3246.8	3194.5	3103.0	3024.6	2998.5
37.5°	2964.9	3071.3	3261.7	3418.5	3485.8	3482.0	3442.8	3343.9	3278.5	3256.1
40°	3149.7	3256.1	3429.8	3637.0	3762.1	3756.5	3734.1	3657.5	3560.4	3549.2
42.5°	3345.7	3433.5	3659.4	3896.5	4075.7	4057.1	3997.3	3907.7	3840.5	3825.6
45°	3536.2	3672.5	3881.6	4185.9	4320.3	4367.0	4296.1	4143.0	4066.4	4057.1
47.5°	3775.2	3883.4	4144.8	4417.4	4617.2	4624.7	4503.3	4361.4	4221.4	4251.2
50°	3988.0	4131.8	4396.9	4695.6	4934.6	4848.7	4693.7	4516.4	4415.5	4376.3
52.5°	4215.8	4391.3	4699.3	5003.7	5136.2	5050.3	4798.3	4600.4	4447.3	4430.5
55°	4548.1	4639.6	5042.9	5276.3	5319.2	5138.1	4766.6	4486.5	4288.6	4240.0
57.5°	4886.0	4992.5	5345.3	5547.0	5502.2	5089.5	4561.2	4128.0	3868.5	3799.4
60°	5227.7	5358.4	5655.3	5840.1	5608.6	4755.3	3980.5	3422.3	3119.8	3058.2
62.5°	5608.6	5778.5	6043.6	6109.0	5293.1	4094.4	3159.0	2470.1	2163.9	2061.2
65°	5946.5	6120.2	6446.9	6052.9	4622.8	3054.5	2042.5	1411.5	1185.6	1103.4
67.5°	6224.7	6420.7	6581.3	5356.5	3384.9	1788.6	1064.2	743.1	659.1	629.2
70°	6445.0	6771.8	6021.2	3937.6	1934.3	871.9	575.0	489.2	478.0	470.5
72.5°	6252.7	6209.8	4495.8	2272.2	847.6	479.8	416.3	403.3	401.4	403.3
75°	5113.8	4561.2	2688.5	987.7	425.7	347.3	345.4	339.8	349.1	349.1
77.5°	2481.3	2169.5	1124.0	423.8	280.1	272.6	281.9	281.9	281.9	281.9
80°	575.0	636.7	401.4	257.7	203.5	203.5	224.0	225.9	216.6	212.8
82.5°	196.0	261.4	220.3	162.4	134.4	151.2	169.9	173.6	143.8	145.6
85°	97.1	153.1	119.5	93.4	69.1	93.4	110.2	115.8	99.0	95.2
87.5°	44.8	67.2	44.8	31.7	24.3	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)