

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: P479464

Luminaire Tested: **IFLD-M-SA4B-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479464
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-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

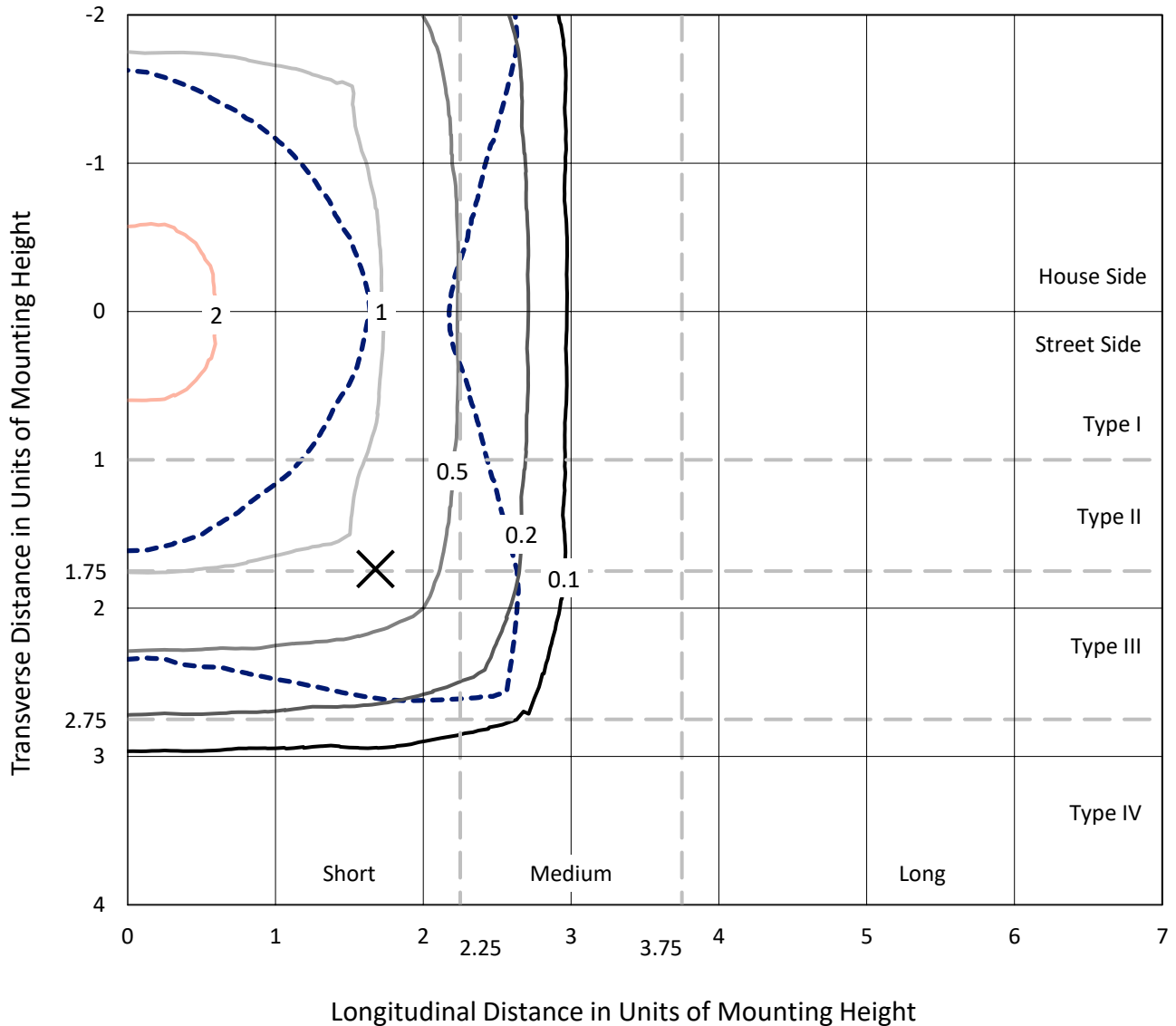
Lumens per Lamp: N/A
Luminaire Lumens: 16947.2 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

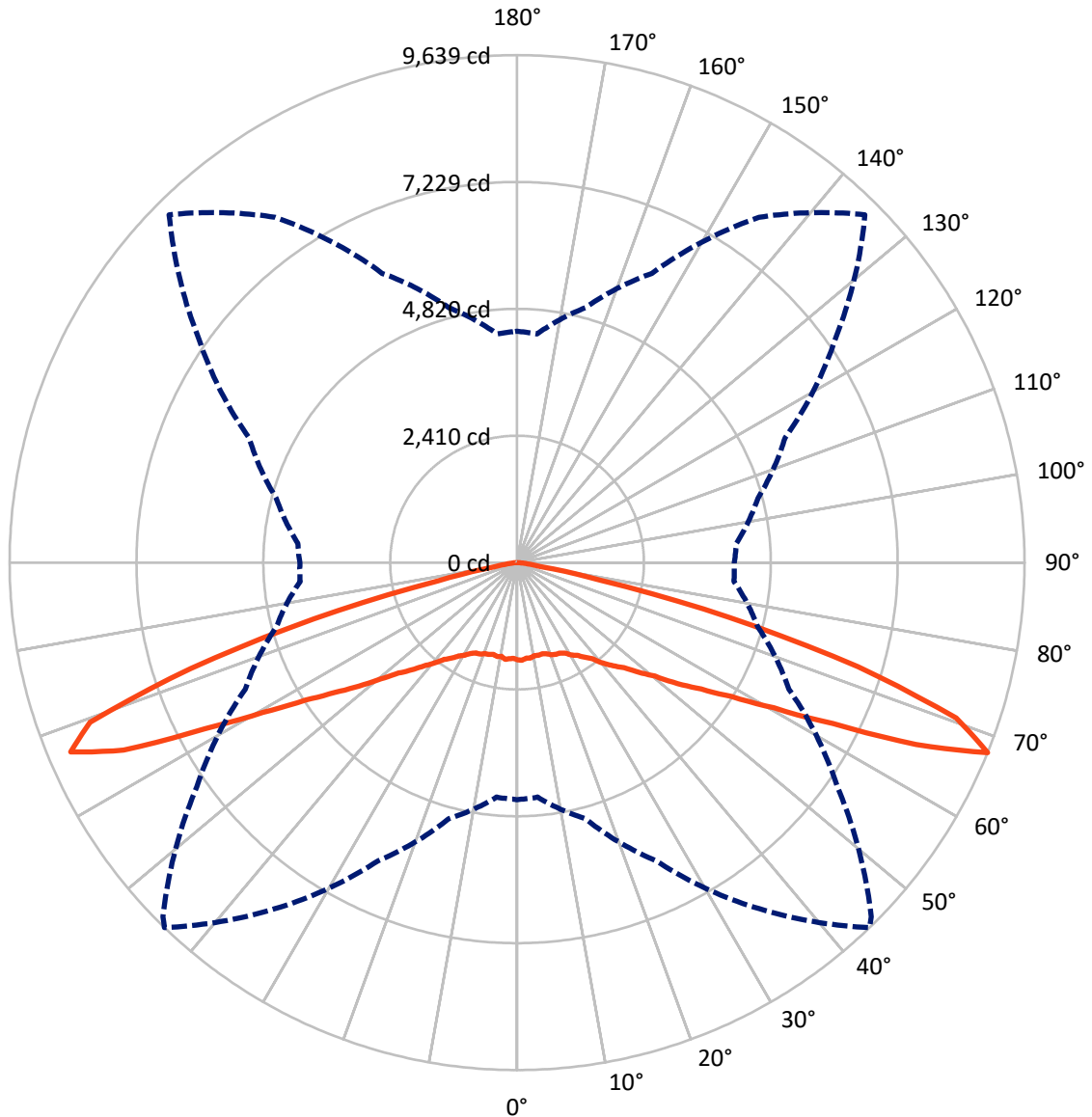
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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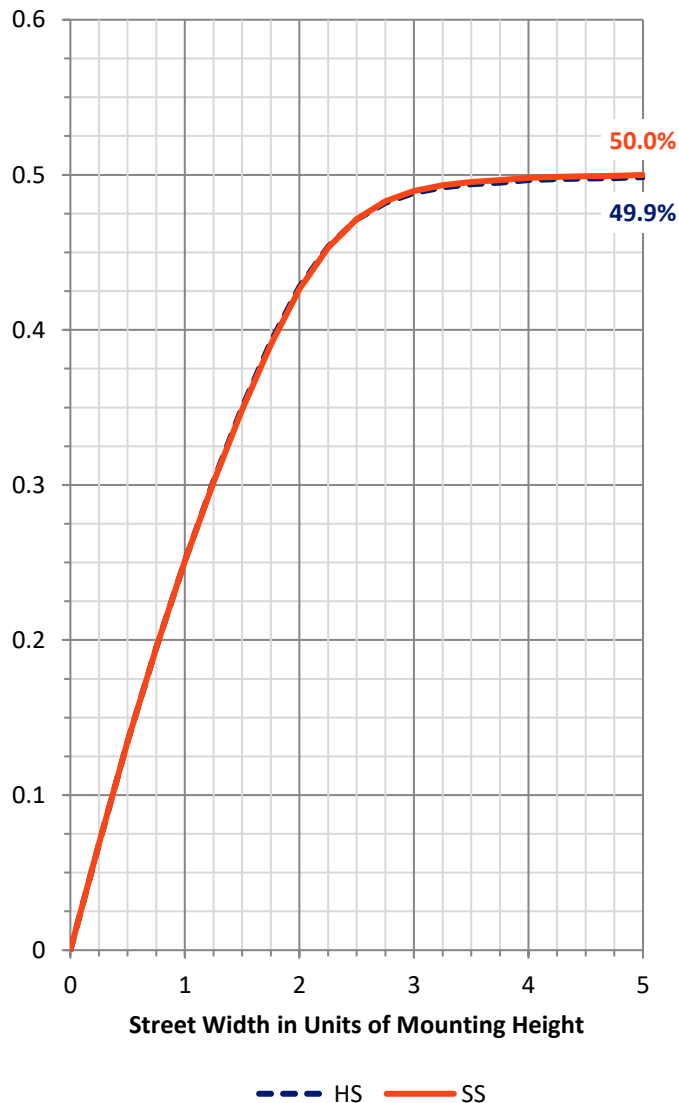
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8451.9	0.0	8451.9
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	8495.3	0.0	8495.3
	% Fixture	50.1	0.0	50.1
Total	Lumens	16947.2	0.0	16947.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.2	1.0
10°-20°	511.8	3.0
20°-30°	870.3	5.1
30°-40°	1379.9	8.1
40°-50°	2250.1	13.3
50°-60°	3842.8	22.7
60°-70°	5844.9	34.5
70°-80°	1970.1	11.6
80°-90°	102.3	0.6
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°	16947.2	100.0
0°-180°	16947.2	100.0

Coefficient of Utilization



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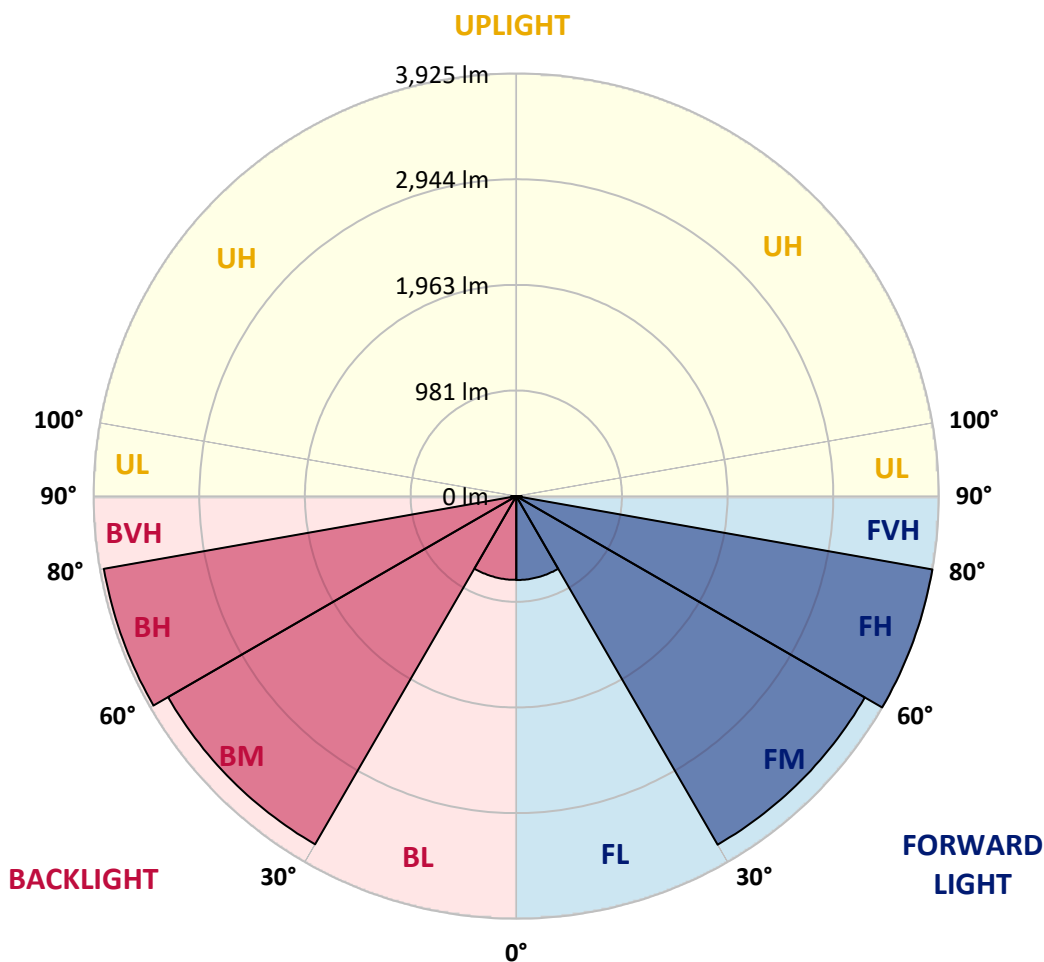
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.4	4.6			
FM (30°-60°)	3738.4	22.1			
FH (60°-80°)	3925.2	23.2			G2/5000
FVH (80°-90°)	52.3	0.3			G1/100
BL (0°-30°)	777.8	4.6	B2/1000		
BM (30°-60°)	3734.4	22.0	B3/5000		
BH (60°-80°)	3889.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	50.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2
2.5°	1808.6	1829.9	1845.4	1843.5	1849.3	1855.1	1847.3	1858.9	1851.2	1864.7	1872.5
5°	1843.5	1837.7	1839.6	1828.0	1855.1	1824.1	1839.6	1858.9	1835.7	1849.3	1849.3
7.5°	1822.2	1818.3	1808.6	1826.0	1831.9	1831.9	1847.3	1818.3	1851.2	1858.9	1860.9
10°	1799.0	1777.7	1806.7	1824.1	1828.0	1797.0	1810.6	1818.3	1808.6	1818.3	1824.1
12.5°	1779.6	1791.2	1791.2	1791.2	1785.4	1806.7	1820.2	1818.3	1799.0	1816.4	1785.4
15°	1777.7	1771.9	1789.3	1804.8	1795.1	1799.0	1804.8	1822.2	1785.4	1793.2	1793.2
17.5°	1775.8	1783.5	1789.3	1787.4	1820.2	1820.2	1814.4	1802.8	1831.9	1816.4	1795.1
20°	1783.5	1777.7	1793.2	1799.0	1822.2	1868.6	1851.2	1841.5	1826.0	1806.7	1806.7
22.5°	1793.2	1789.3	1810.6	1835.7	1880.2	1891.8	1889.9	1878.3	1851.2	1828.0	1824.1
25°	1828.0	1793.2	1816.4	1864.7	1880.2	1903.4	1918.9	1903.4	1866.7	1872.5	1837.7
27.5°	1880.2	1874.4	1905.4	1938.2	1924.7	1946.0	1932.4	1944.0	1946.0	1917.0	1882.1
30°	1942.1	1924.7	1944.0	2007.9	2013.7	2036.9	2013.7	1982.7	1992.4	1967.3	1949.8
32.5°	2031.1	2025.3	2062.0	2104.6	2112.3	2100.7	2089.1	2106.5	2065.9	2046.6	2015.6
35°	2089.1	2114.3	2158.8	2191.6	2216.8	2205.2	2211.0	2193.6	2203.2	2162.6	2149.1
37.5°	2261.3	2251.6	2261.3	2317.4	2323.2	2317.4	2323.2	2342.5	2329.0	2294.2	2259.3
40°	2423.8	2408.3	2431.5	2495.3	2491.5	2510.8	2472.1	2493.4	2493.4	2427.6	2414.1
42.5°	2545.6	2597.9	2624.9	2677.2	2696.5	2679.1	2671.4	2675.2	2717.8	2640.4	2611.4
45°	2797.1	2795.2	2876.4	2905.4	2851.3	2847.4	2831.9	2878.3	2907.4	2862.9	2851.3
47.5°	3069.8	3083.4	3129.8	3141.4	3174.3	3114.3	3114.3	3120.1	3222.7	3118.2	3064.0
50°	3315.5	3332.9	3425.8	3516.7	3454.8	3391.0	3416.1	3447.1	3503.1	3404.5	3358.1
52.5°	3613.4	3708.2	3770.1	3818.5	3862.9	3818.5	3760.4	3795.2	3905.5	3774.0	3715.9
55°	4042.8	4118.3	4176.3	4265.3	4302.0	4242.1	4236.3	4232.4	4294.3	4155.0	4075.7
57.5°	4522.6	4491.6	4584.5	4721.8	4855.3	4797.2	4779.8	4783.7	4799.2	4601.9	4541.9
60°	5118.3	5153.2	5263.4	5383.4	5524.6	5605.8	5491.7	5425.9	5439.5	5170.6	5077.7
62.5°	5458.8	5536.2	5785.7	6197.7	6482.1	6735.5	6752.9	6325.4	6039.1	5516.8	5122.2
65°	5294.4	5282.8	5752.8	6515.0	7592.4	8329.4	8219.1	7182.3	6182.3	5352.4	4822.4
67.5°	4503.2	4472.3	5041.0	6250.0	8029.6	9639.0	9513.2	7424.1	5698.7	4735.3	4135.7
70°	2901.6	2893.8	3510.9	4764.4	7168.8	8849.8	8896.2	6743.2	4638.6	3468.3	2874.5
72.5°	1054.2	1118.1	1475.9	2561.1	4868.8	6770.3	6799.3	4992.6	2667.5	1603.6	1181.9
75°	388.8	400.4	466.2	831.8	2218.7	4157.0	4265.3	2421.8	947.8	522.3	425.6
77.5°	224.4	226.3	249.5	309.5	657.7	1622.9	1688.7	735.1	367.5	278.5	257.3
80°	152.8	150.9	176.0	201.2	263.1	460.4	489.4	307.6	232.1	193.4	162.5
82.5°	89.0	94.8	129.6	143.1	160.6	203.1	207.0	191.5	174.1	143.1	106.4
85°	54.2	44.5	71.6	79.3	92.8	90.9	90.9	104.5	112.2	100.6	60.0
87.5°	13.5	13.5	17.4	19.3	25.1	19.3	21.3	40.6	54.2	50.3	30.9
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°	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2	1851.2
2.5°	1855.1	1849.3	1853.1	1874.4	1860.9	1820.2	1829.9	1851.2	1833.8	1824.1	1822.2
5°	1847.3	1858.9	1845.4	1849.3	1862.8	1829.9	1835.7	1862.8	1851.2	1855.1	1833.8
7.5°	1849.3	1855.1	1843.5	1826.0	1826.0	1853.1	1837.7	1841.5	1824.1	1853.1	1814.4
10°	1837.7	1822.2	1808.6	1818.3	1814.4	1806.7	1800.9	1812.5	1795.1	1820.2	1793.2
12.5°	1802.8	1806.7	1802.8	1799.0	1806.7	1826.0	1795.1	1799.0	1771.9	1775.8	1789.3
15°	1789.3	1800.9	1797.0	1818.3	1828.0	1799.0	1822.2	1799.0	1777.7	1766.1	1787.4
17.5°	1795.1	1812.5	1806.7	1822.2	1804.8	1826.0	1829.9	1820.2	1795.1	1785.4	1795.1
20°	1800.9	1795.1	1802.8	1829.9	1855.1	1833.8	1833.8	1828.0	1804.8	1791.2	1791.2
22.5°	1814.4	1804.8	1816.4	1837.7	1845.4	1878.3	1849.3	1835.7	1797.0	1762.2	1795.1
25°	1841.5	1847.3	1855.1	1847.3	1889.9	1886.0	1882.1	1872.5	1812.5	1814.4	1808.6
27.5°	1893.8	1860.9	1870.5	1917.0	1922.8	1938.2	1918.9	1936.3	1872.5	1874.4	1835.7
30°	1957.6	1922.8	1953.7	1994.3	1992.4	2021.4	2011.7	2015.6	1971.1	1946.0	1893.8
32.5°	2027.2	2023.4	2042.7	2067.8	2077.5	2093.0	2091.1	2091.1	2064.0	1998.2	2007.9
35°	2104.6	2131.7	2154.9	2182.0	2185.8	2205.2	2178.1	2182.0	2154.9	2106.5	2122.0
37.5°	2257.4	2255.5	2280.6	2313.5	2317.4	2301.9	2323.2	2313.5	2276.8	2243.9	2218.7
40°	2435.4	2396.7	2419.9	2497.3	2503.1	2476.0	2474.1	2472.1	2445.0	2373.5	2358.0
42.5°	2590.1	2640.4	2636.5	2661.7	2644.3	2630.7	2679.1	2652.0	2630.7	2555.3	2541.8
45°	2789.4	2804.8	2855.1	2936.4	2853.2	2853.2	2886.1	2864.8	2853.2	2797.1	2744.9
47.5°	3037.0	3050.5	3151.1	3156.9	3102.7	3066.0	3168.5	3172.4	3124.0	3081.5	3017.6
50°	3327.1	3332.9	3423.8	3516.7	3456.7	3387.1	3491.5	3532.2	3423.8	3365.8	3286.5
52.5°	3646.3	3628.9	3704.3	3878.4	3820.4	3799.1	3911.3	3921.0	3774.0	3683.0	3704.3
55°	4013.8	3990.6	4195.7	4313.6	4276.9	4238.2	4288.5	4311.7	4193.7	4044.8	4097.0
57.5°	4489.7	4501.3	4603.8	4719.9	4779.8	4789.5	4812.7	4789.5	4669.6	4518.7	4470.3
60°	4965.5	5000.4	5199.6	5418.2	5437.5	5607.7	5576.8	5460.7	5290.5	5075.8	5085.5
62.5°	5141.6	5112.5	5433.7	5967.5	6422.1	6733.5	6596.2	6184.2	5789.6	5398.8	5427.8
65°	4787.6	4859.1	5296.3	6132.0	7118.5	8350.7	7619.5	6480.1	5683.2	5178.3	5122.2
67.5°	4126.0	4180.2	4735.3	5617.4	7368.0	9345.0	8006.4	6062.3	5012.0	4358.1	4393.0
70°	2874.5	2901.6	3445.1	4601.9	6681.3	8818.8	7222.9	4656.0	3460.6	2758.4	2797.1
72.5°	1156.8	1222.5	1580.4	2772.0	4932.6	6700.7	4863.0	2443.1	1435.3	1067.8	969.1
75°	427.5	429.4	504.9	953.6	2342.5	4211.1	2193.6	785.4	458.4	375.3	357.9
77.5°	247.6	245.7	263.1	344.3	679.0	1644.2	622.9	307.6	249.5	224.4	214.7
80°	154.7	152.8	179.9	228.3	297.9	450.7	263.1	191.5	168.3	145.1	145.1
82.5°	98.7	100.6	141.2	168.3	181.8	199.2	152.8	135.4	125.7	83.2	81.2
85°	63.8	58.0	98.7	112.2	100.6	89.0	85.1	71.6	65.8	40.6	44.5
87.5°	29.0	30.9	50.3	56.1	36.8	21.3	21.3	15.5	15.5	9.7	9.7
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)