

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: P479268

Luminaire Tested: **IFLD-M-SA4A-730-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479268
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-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

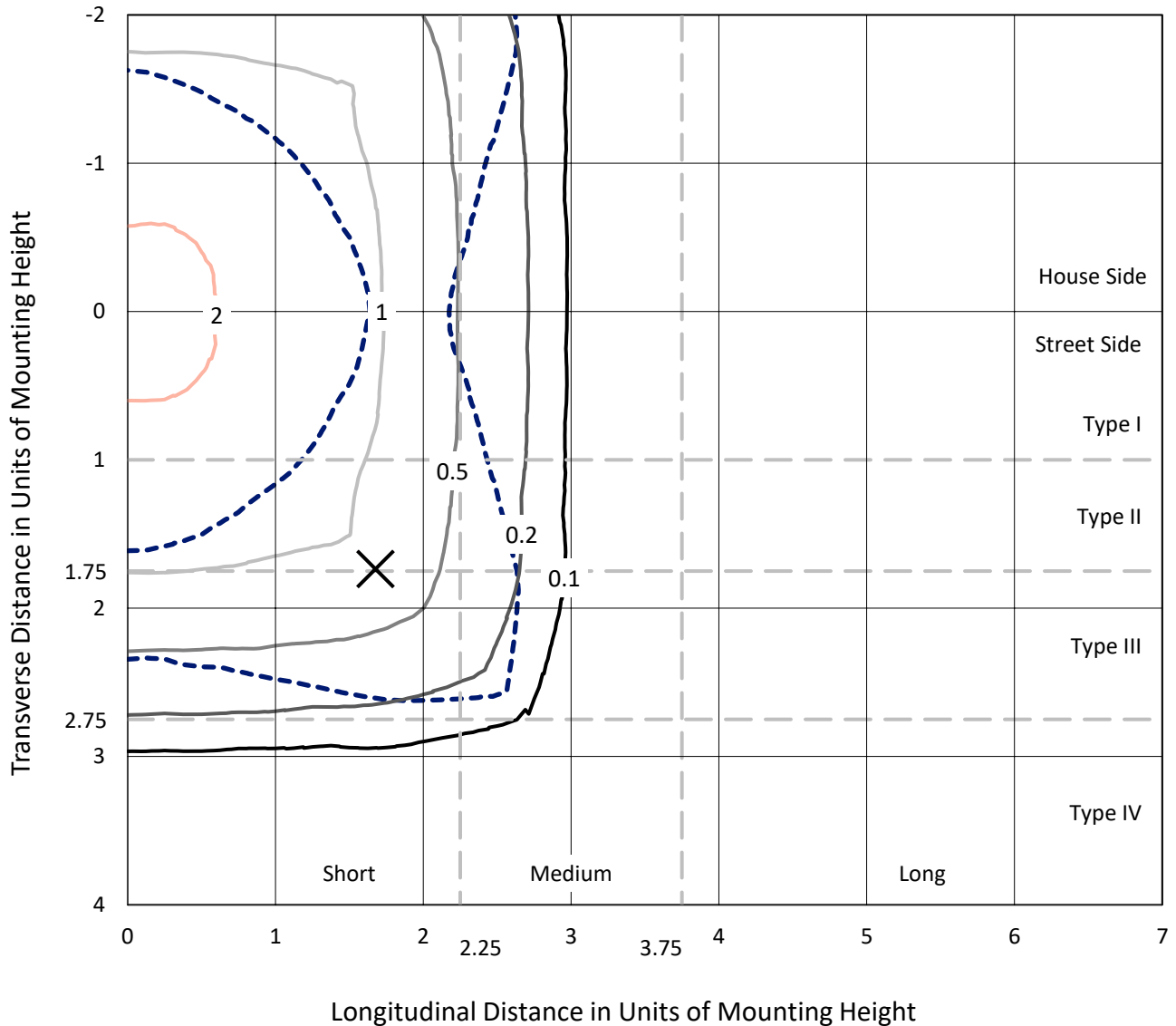
Lumens per Lamp: N/A
Luminaire Lumens: 16974.6 lumens
Efficiency: N/A
Efficacy: 132.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

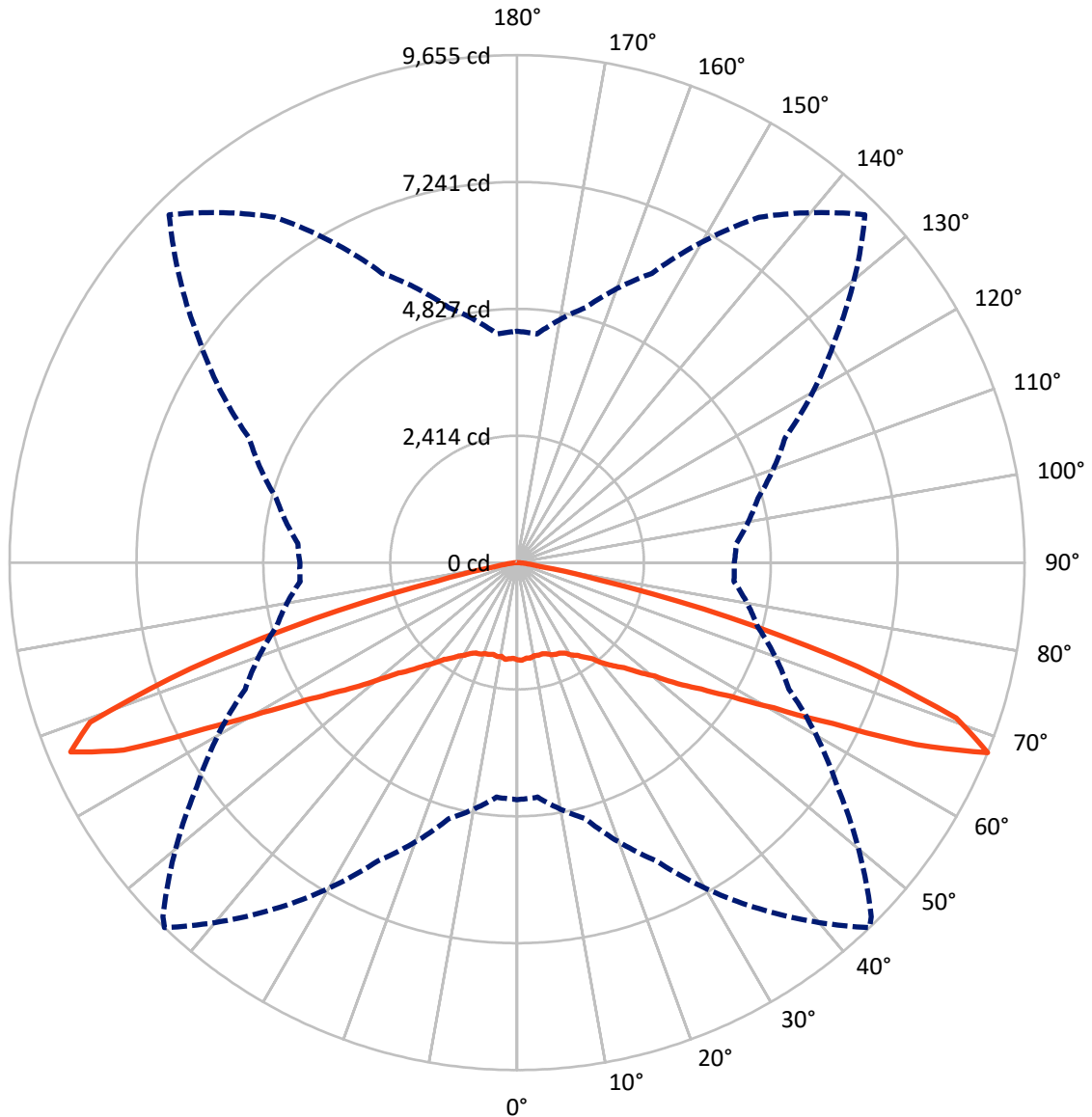
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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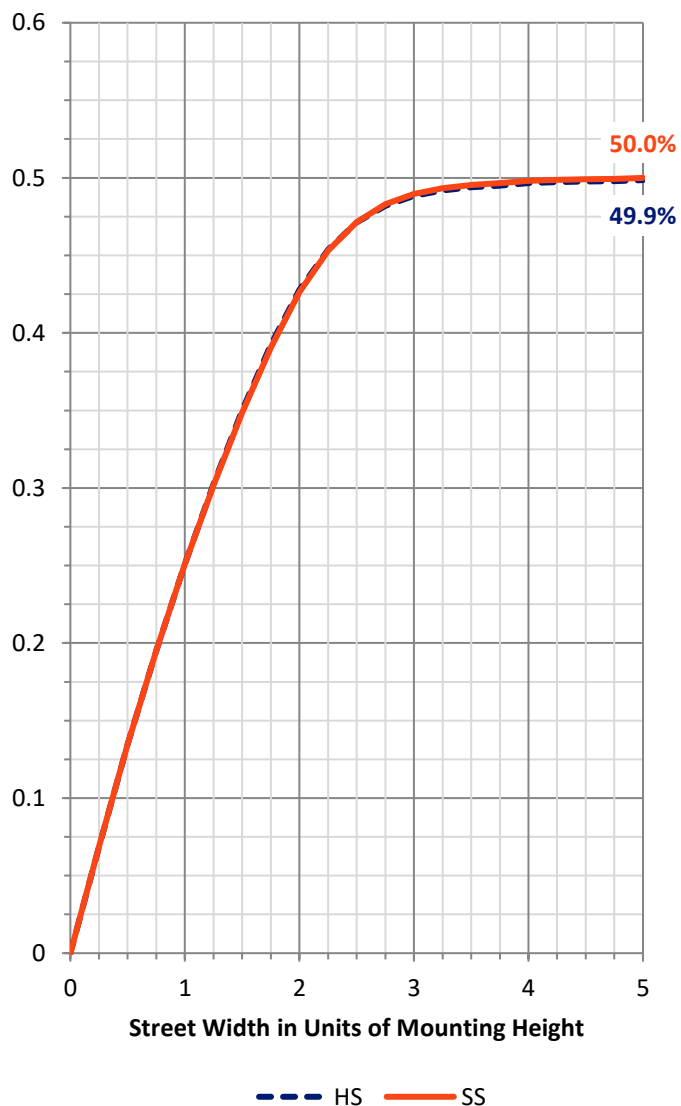
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8465.6	0.0	8465.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	8509.0	0.0	8509.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	16974.6	0.0	16974.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.5	1.0
10°-20°	512.6	3.0
20°-30°	871.7	5.1
30°-40°	1382.1	8.1
40°-50°	2253.7	13.3
50°-60°	3849.0	22.7
60°-70°	5854.3	34.5
70°-80°	1973.3	11.6
80°-90°	102.4	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°	16974.6	100.0
0°-180°	16974.6	100.0

Coefficient of Utilization



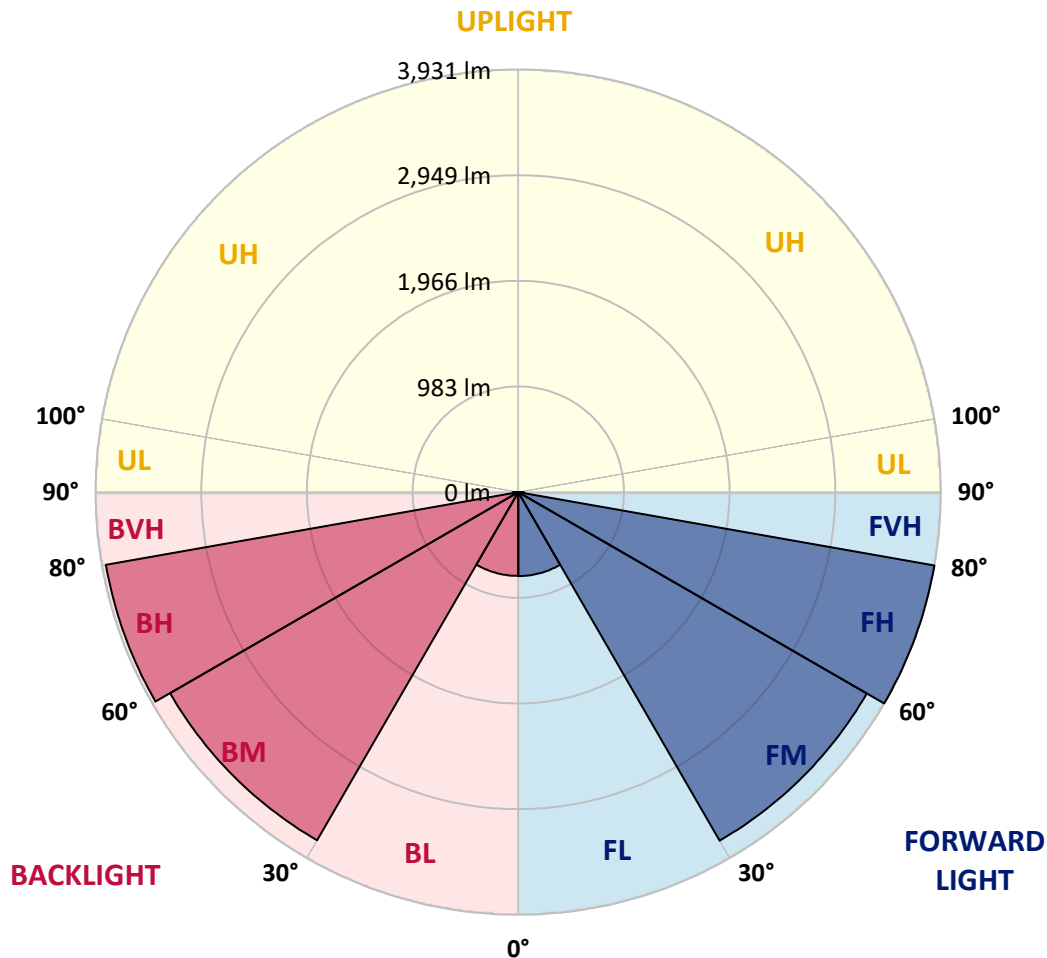
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	780.7	4.6			
FM (30°-60°)	3744.4	22.1			
FH (60°-80°)	3931.5	23.2			G2/5000
FVH (80°-90°)	52.4	0.3			G1/100
BL (0°-30°)	779.1	4.6	B2/1000		
BM (30°-60°)	3740.4	22.0	B3/5000		
BH (60°-80°)	3896.1	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°	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2
2.5°	1811.6	1832.9	1848.4	1846.4	1852.2	1858.1	1850.3	1861.9	1854.2	1867.7	1875.5
5°	1846.4	1840.6	1842.6	1830.9	1858.1	1827.1	1827.1	1842.6	1861.9	1838.7	1852.2
7.5°	1825.1	1821.2	1811.6	1829.0	1834.8	1834.8	1850.3	1821.2	1854.2	1861.9	1863.9
10°	1801.9	1780.6	1809.6	1827.1	1830.9	1799.9	1813.5	1821.2	1811.6	1821.2	1827.1
12.5°	1782.5	1794.1	1794.1	1794.1	1788.3	1809.6	1823.2	1821.2	1801.9	1819.3	1788.3
15°	1780.6	1774.7	1792.2	1807.7	1798.0	1801.9	1807.7	1825.1	1788.3	1796.1	1796.1
17.5°	1778.6	1786.4	1792.2	1790.2	1823.2	1823.2	1817.4	1805.7	1834.8	1819.3	1798.0
20°	1786.4	1780.6	1796.1	1801.9	1825.1	1871.6	1854.2	1844.5	1829.0	1809.6	1809.6
22.5°	1796.1	1792.2	1813.5	1838.7	1883.2	1894.9	1892.9	1881.3	1854.2	1830.9	1827.1
25°	1830.9	1796.1	1819.3	1867.7	1883.2	1906.5	1922.0	1906.5	1869.7	1875.5	1840.6
27.5°	1883.2	1877.4	1908.4	1941.4	1927.8	1949.1	1935.6	1947.2	1949.1	1920.1	1885.2
30°	1945.2	1927.8	1947.2	2011.1	2016.9	2040.2	2016.9	1985.9	1995.6	1970.4	1953.0
32.5°	2034.4	2028.6	2065.4	2108.0	2115.7	2104.1	2092.5	2109.9	2069.2	2049.9	2018.9
35°	2092.5	2117.7	2162.2	2195.2	2220.4	2208.7	2214.6	2197.1	2206.8	2166.1	2152.6
37.5°	2264.9	2255.2	2264.9	2321.1	2326.9	2321.1	2326.9	2346.3	2332.7	2297.9	2263.0
40°	2427.7	2412.2	2435.4	2499.4	2495.5	2514.9	2476.1	2497.4	2497.4	2431.6	2418.0
42.5°	2549.7	2602.1	2629.2	2681.5	2700.9	2683.4	2675.7	2679.6	2722.2	2644.7	2615.6
45°	2801.6	2799.7	2881.1	2910.1	2855.9	2852.0	2836.5	2883.0	2912.1	2867.5	2855.9
47.5°	3074.8	3088.4	3134.9	3146.5	3179.4	3119.4	3119.4	3125.2	3227.9	3123.2	3069.0
50°	3320.9	3338.3	3431.3	3522.4	3460.4	3396.4	3421.6	3452.6	3508.8	3410.0	3363.5
52.5°	3619.2	3714.2	3776.2	3824.6	3869.2	3824.6	3766.5	3801.4	3911.8	3780.1	3721.9
55°	4049.4	4124.9	4183.1	4272.2	4309.0	4248.9	4243.1	4239.2	4301.2	4161.7	4082.3
57.5°	4529.9	4498.9	4591.9	4729.4	4863.1	4805.0	4787.6	4791.4	4806.9	4609.3	4549.2
60°	5126.6	5161.5	5271.9	5392.0	5533.5	5614.9	5500.5	5434.7	5448.2	5178.9	5085.9
62.5°	5467.6	5545.1	5795.0	6207.7	6492.5	6746.4	6763.8	6335.6	6048.9	5525.7	5130.5
65°	5302.9	5291.3	5762.1	6525.5	7604.7	8342.9	8232.4	7193.9	6192.2	5361.0	4830.2
67.5°	4510.5	4479.5	5049.1	6260.0	8042.5	9654.5	9528.6	7436.1	5707.9	4743.0	4142.4
70°	2906.2	2898.5	3516.6	4772.1	7180.4	8864.0	8910.5	6754.1	4646.1	3473.9	2879.1
72.5°	1055.9	1119.9	1478.3	2565.2	4876.7	6781.2	6810.3	5000.7	2671.8	1606.2	1183.8
75°	389.4	401.1	466.9	833.1	2222.3	4163.7	4272.2	2425.7	949.4	523.1	426.2
77.5°	224.7	226.7	249.9	310.0	658.7	1625.6	1691.4	736.2	368.1	279.0	257.7
80°	153.1	151.1	176.3	201.5	263.5	461.1	490.2	308.1	232.5	193.7	162.7
82.5°	89.1	94.9	129.8	143.4	160.8	203.4	207.3	191.8	174.4	143.4	106.6
85°	54.2	44.6	71.7	79.4	93.0	91.1	91.1	104.6	112.4	100.7	60.1
87.5°	13.6	13.6	17.4	19.4	25.2	19.4	21.3	40.7	54.2	50.4	31.0
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°	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2	1854.2
2.5°	1858.1	1852.2	1856.1	1877.4	1863.9	1823.2	1832.9	1854.2	1836.7	1827.1	1825.1
5°	1850.3	1861.9	1848.4	1852.2	1865.8	1832.9	1838.7	1865.8	1854.2	1858.1	1836.7
7.5°	1852.2	1858.1	1846.4	1829.0	1829.0	1856.1	1840.6	1844.5	1827.1	1856.1	1817.4
10°	1840.6	1825.1	1811.6	1821.2	1817.4	1809.6	1803.8	1815.4	1798.0	1823.2	1796.1
12.5°	1805.7	1809.6	1805.7	1801.9	1809.6	1829.0	1798.0	1801.9	1774.7	1778.6	1792.2
15°	1792.2	1803.8	1799.9	1821.2	1830.9	1801.9	1825.1	1801.9	1780.6	1768.9	1790.2
17.5°	1798.0	1815.4	1809.6	1825.1	1807.7	1829.0	1832.9	1823.2	1798.0	1788.3	1798.0
20°	1803.8	1798.0	1805.7	1832.9	1858.1	1836.7	1836.7	1830.9	1807.7	1794.1	1794.1
22.5°	1817.4	1807.7	1819.3	1840.6	1848.4	1881.3	1852.2	1838.7	1799.9	1765.1	1798.0
25°	1844.5	1850.3	1858.1	1850.3	1892.9	1889.1	1885.2	1875.5	1815.4	1817.4	1811.6
27.5°	1896.8	1863.9	1873.6	1920.1	1925.9	1941.4	1922.0	1939.4	1875.5	1877.4	1838.7
30°	1960.7	1925.9	1956.9	1997.6	1995.6	2024.7	2015.0	2018.9	1974.3	1949.1	1896.8
32.5°	2030.5	2026.6	2046.0	2071.2	2080.9	2096.4	2094.4	2094.4	2067.3	2001.4	2011.1
35°	2108.0	2135.1	2158.4	2185.5	2189.4	2208.7	2181.6	2185.5	2158.4	2109.9	2125.4
37.5°	2261.1	2259.1	2284.3	2317.2	2321.1	2305.6	2326.9	2317.2	2280.4	2247.5	2222.3
40°	2439.3	2400.6	2423.8	2501.3	2507.1	2480.0	2478.1	2476.1	2449.0	2377.3	2361.8
42.5°	2594.3	2644.7	2640.8	2666.0	2648.6	2635.0	2683.4	2656.3	2635.0	2559.4	2545.9
45°	2793.9	2809.4	2859.7	2941.1	2857.8	2857.8	2890.7	2869.4	2857.8	2801.6	2749.3
47.5°	3041.9	3055.4	3156.2	3162.0	3107.7	3070.9	3173.6	3177.5	3129.1	3086.4	3022.5
50°	3332.5	3338.3	3429.4	3522.4	3462.3	3392.6	3497.2	3537.9	3429.4	3371.2	3291.8
52.5°	3652.2	3634.7	3710.3	3884.7	3826.6	3805.2	3917.6	3927.3	3780.1	3689.0	3710.3
55°	4020.3	3997.1	4202.4	4320.6	4283.8	4245.1	4295.4	4318.7	4200.5	4051.3	4103.6
57.5°	4496.9	4508.6	4611.2	4727.5	4787.6	4797.2	4820.5	4797.2	4677.1	4526.0	4477.6
60°	4973.6	5008.4	5208.0	5426.9	5446.3	5616.8	5585.8	5469.5	5299.0	5084.0	5093.7
62.5°	5149.9	5120.8	5442.4	5977.2	6432.5	6744.4	6606.9	6194.2	5798.9	5407.5	5436.6
65°	4795.3	4867.0	5304.9	6141.9	7130.0	8364.2	7631.8	6490.6	5692.4	5186.7	5130.5
67.5°	4132.7	4186.9	4743.0	5626.5	7379.9	9360.0	8019.3	6072.1	5020.0	4365.2	4400.1
70°	2879.1	2906.2	3450.7	4609.3	6692.1	8833.0	7234.6	4663.6	3466.2	2762.9	2801.6
72.5°	1158.6	1224.5	1582.9	2776.4	4940.6	6711.5	4870.9	2447.1	1437.6	1069.5	970.7
75°	428.2	430.1	505.7	955.2	2346.3	4217.9	2197.1	786.6	459.2	375.9	358.4
77.5°	248.0	246.1	263.5	344.9	680.1	1646.9	623.9	308.1	249.9	224.7	215.1
80°	155.0	153.1	180.2	228.6	298.4	451.4	263.5	191.8	168.6	145.3	145.3
82.5°	98.8	100.7	141.4	168.6	182.1	199.6	153.1	135.6	125.9	83.3	81.4
85°	63.9	58.1	98.8	112.4	100.7	89.1	85.2	71.7	65.9	40.7	44.6
87.5°	29.1	31.0	50.4	56.2	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)