

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: P478527

Luminaire Tested: **IFLD-M-SA4A-735-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478527
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

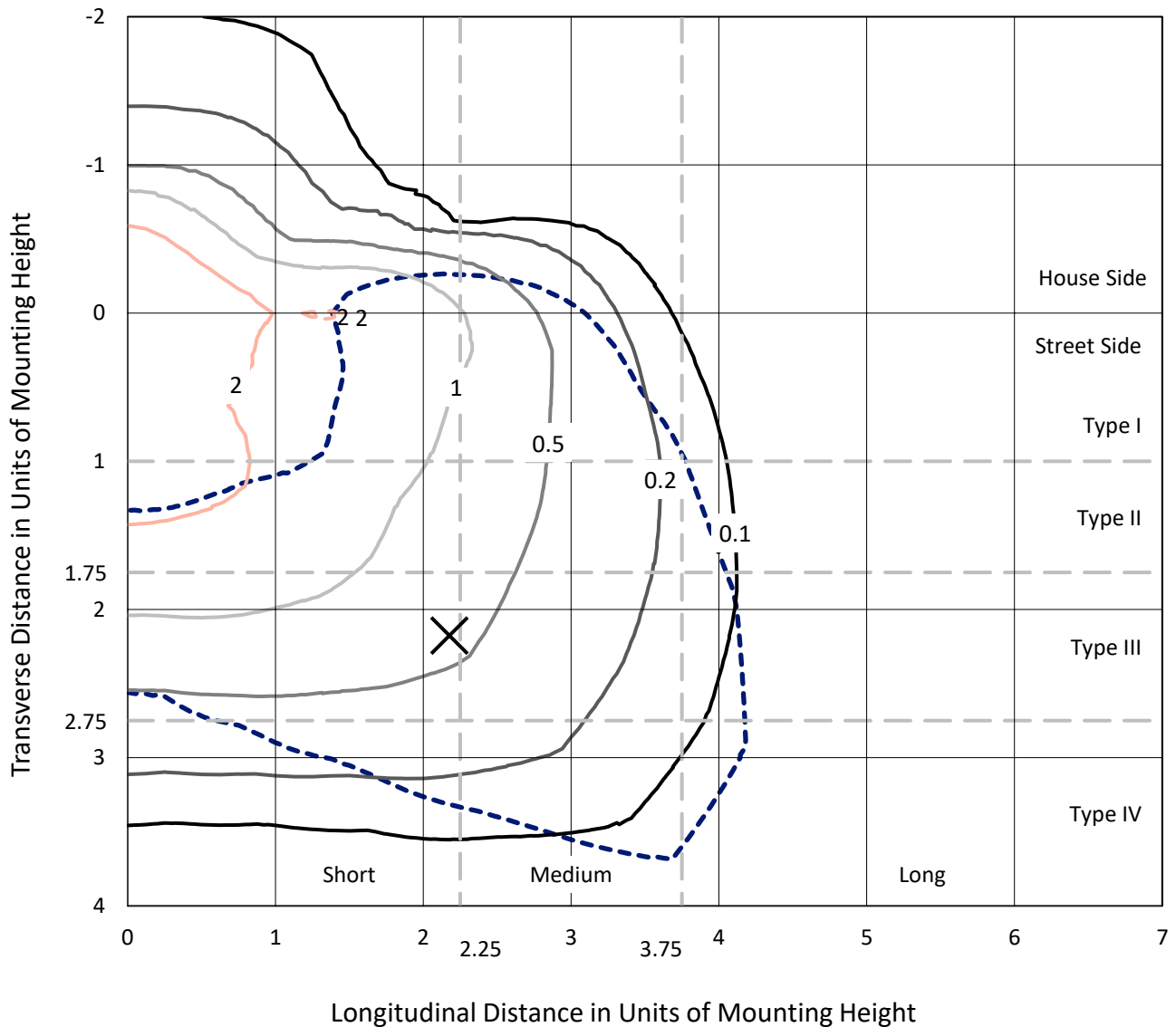
Lumens per Lamp: N/A
Luminaire Lumens: 18410.7 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

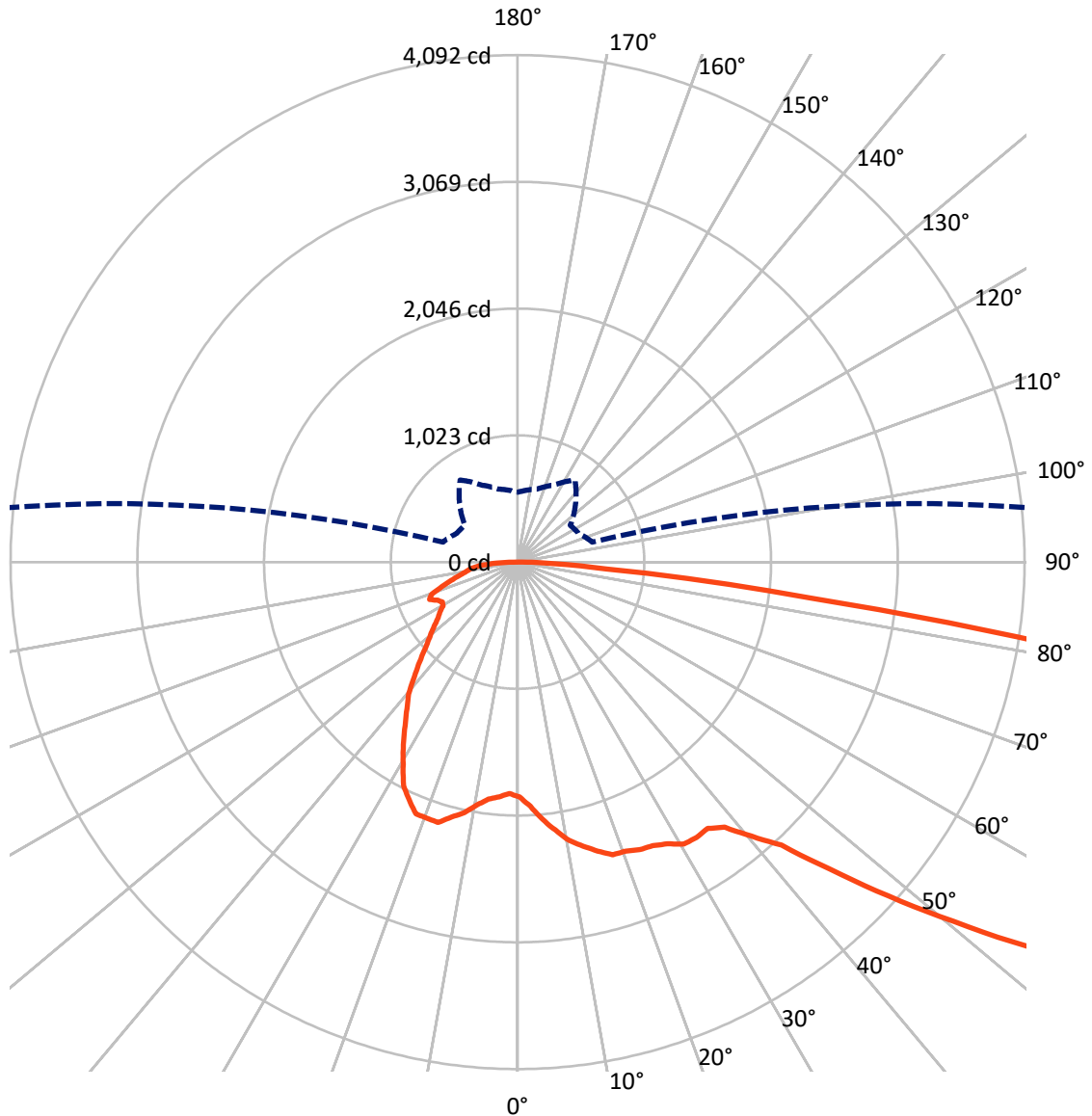
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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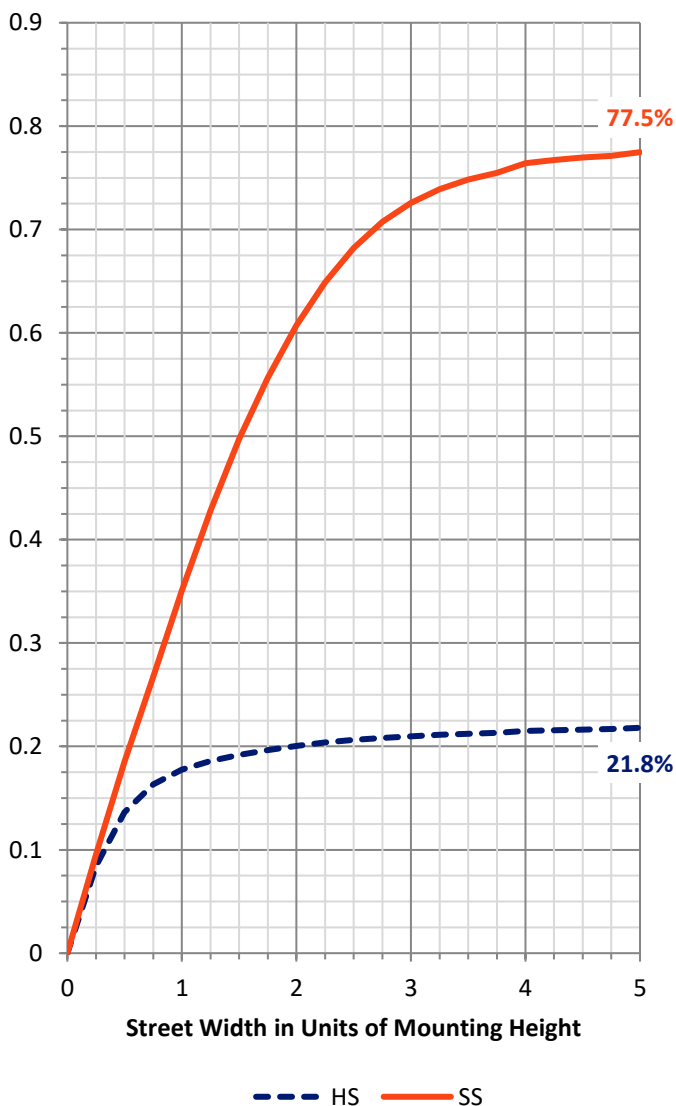
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4098.3	0.0	4098.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14312.4	0.0	14312.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	18410.7	0.0	18410.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	1.1
10°-20°	645.5	3.5
20°-30°	1090.0	5.9
30°-40°	1508.4	8.2
40°-50°	2157.7	11.7
50°-60°	3480.1	18.9
60°-70°	5132.6	27.9
70°-80°	3727.2	20.2
80°-90°	475.1	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°	18410.7	100.0
0°-180°	18410.7	100.0

Coefficient of Utilization



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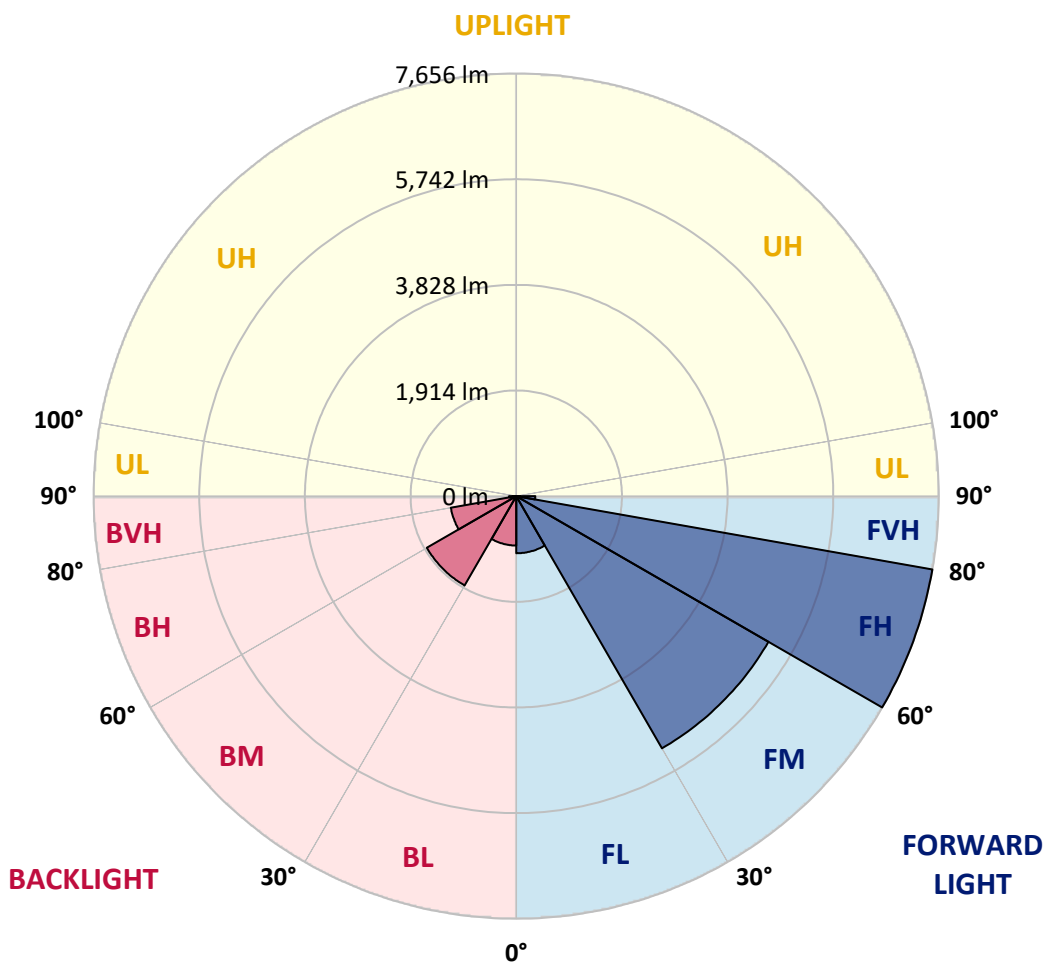
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1034.7	5.6			
FM (30°-60°)	5275.9	28.7			
FH (60°-80°)	7656.0	41.6			G4/12000
FVH (80°-90°)	345.8	1.9			G3/500
BL (0°-30°)	894.8	4.9	B2/1000		
BM (30°-60°)	1870.4	10.2	B2/2500		
BH (60°-80°)	1203.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	129.3	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°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1997.2	2009.1	1997.2	1995.2	1975.4	1961.5	1973.4	1955.5	1935.7	1927.7	1909.9
5°	2179.9	2181.9	2160.0	2162.0	2120.3	2076.6	2084.6	2031.0	1973.4	1951.6	1915.8
7.5°	2366.5	2344.6	2312.9	2303.0	2237.4	2189.8	2183.8	2136.2	2046.9	1997.2	1947.6
10°	2487.6	2495.5	2443.9	2400.2	2344.6	2287.1	2285.1	2195.8	2144.1	2070.7	2007.1
12.5°	2594.8	2596.8	2553.1	2483.6	2414.1	2342.7	2352.6	2312.9	2225.5	2156.0	2092.5
15°	2678.2	2666.3	2618.6	2555.1	2481.6	2426.0	2420.1	2386.3	2312.9	2255.3	2150.1
17.5°	2702.0	2696.0	2648.4	2580.9	2509.4	2467.7	2483.6	2428.0	2398.3	2346.6	2245.4
20°	2656.3	2642.4	2634.5	2559.1	2507.4	2503.5	2489.6	2501.5	2451.9	2404.2	2330.8
22.5°	2573.0	2567.0	2563.0	2503.5	2479.7	2497.5	2521.3	2539.2	2531.3	2485.6	2402.2
25°	2487.6	2515.4	2489.6	2461.8	2495.5	2541.2	2535.2	2592.8	2592.8	2578.9	2509.4
27.5°	2547.2	2529.3	2509.4	2495.5	2507.4	2578.9	2574.9	2644.4	2670.2	2644.4	2565.0
30°	2696.0	2678.2	2620.6	2559.1	2543.2	2620.6	2640.5	2702.0	2713.9	2650.4	2582.9
32.5°	2976.0	2966.1	2874.7	2694.1	2596.8	2640.5	2650.4	2719.9	2709.9	2670.2	2642.4
35°	3390.9	3357.2	3230.1	2924.4	2709.9	2666.3	2640.5	2696.0	2733.8	2713.9	2688.1
37.5°	3845.5	3807.8	3651.0	3263.8	2914.4	2735.8	2715.9	2761.6	2805.2	2795.3	2741.7
40°	4280.3	4280.3	4139.4	3688.7	3218.2	2904.5	2908.5	2856.9	2896.6	2878.7	2888.6
42.5°	4709.2	4693.3	4635.7	4187.0	3543.8	3186.4	3122.9	2993.8	3065.3	3059.4	3073.3
45°	5143.9	5132.0	5116.1	4651.6	4010.3	3567.6	3533.8	3301.6	3367.1	3339.3	3398.8
47.5°	5491.4	5505.3	5505.3	5169.7	4508.6	4075.8	4026.2	3658.9	3784.0	3797.9	3811.8
50°	5787.2	5793.1	5787.2	5664.1	5064.5	4657.5	4556.3	4183.0	4308.1	4417.3	4544.4
52.5°	6196.1	6204.1	6176.3	6128.6	5818.9	5269.0	5155.8	4740.9	4997.0	5112.2	5340.5
55°	6700.4	6640.9	6589.2	6625.0	6543.6	5942.0	5824.9	5316.7	5701.8	5854.7	6311.3
57.5°	6793.7	6845.3	6976.4	7260.3	7377.4	6597.2	6529.7	6023.4	6497.9	6630.9	7393.3
60°	7123.3	7037.9	7359.5	7975.0	8106.0	7450.9	7381.4	6797.7	7290.1	7429.0	8391.9
62.5°	7339.7	7335.7	7812.2	8542.8	8840.6	8336.3	8195.4	7804.2	8145.7	8280.7	9479.8
65°	7276.2	7333.7	8179.5	8876.3	9454.0	9342.9	9261.5	8669.8	9120.5	9108.6	10188.6
67.5°	6696.4	6859.2	7947.2	9116.5	10367.3	10569.8	10544.0	9886.8	9912.6	9660.5	10504.3
70°	5892.4	5836.8	6964.5	8866.4	10823.9	12025.0	12019.1	10792.1	10625.4	9781.6	9599.0
72°	4526.5	4465.0	5392.1	7613.7	10583.7	12606.7	12785.4	11419.5	10617.4	9279.3	7929.3
72.5°	4109.6	4056.0	4979.2	7167.0	10317.6	12757.6	12674.2	11443.3	10534.0	9043.1	7407.2
75°	1892.0	1830.5	2487.6	4387.5	8048.4	11304.3	11588.2	10708.8	9199.9	7198.7	4437.2
77.5°	563.8	546.0	800.1	1770.9	4677.4	8328.4	8437.6	8080.2	6422.5	3942.8	1645.8
80°	313.7	315.7	412.9	663.1	2056.8	4814.4	5207.5	4991.1	3150.7	1302.4	547.9
82.5°	174.7	184.6	258.1	393.1	945.0	2209.6	2378.4	2293.0	1139.6	611.5	299.8
85°	91.3	95.3	135.0	210.4	536.0	698.8	718.7	770.3	591.6	416.9	160.8
87.5°	35.7	35.7	49.6	87.4	198.5	216.4	194.6	236.3	339.5	270.0	79.4
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°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1925.7	1909.9	1907.9	1882.1	1890.0	1868.2	1870.2	1866.2	1868.2	1864.2	1854.3
5°	1915.8	1903.9	1870.2	1892.0	1872.1	1899.9	1921.8	1913.8	1919.8	1917.8	1919.8
7.5°	1929.7	1913.8	1909.9	1898.0	1915.8	1927.7	1945.6	1995.2	1991.3	1997.2	2009.1
10°	1971.4	1953.5	1941.6	1959.5	1949.6	1987.3	2007.1	2033.0	2078.6	2080.6	2056.8
12.5°	2052.8	2040.9	2017.1	2021.0	2054.8	2066.7	2078.6	2094.5	2124.3	2118.3	2140.2
15°	2146.1	2120.3	2106.4	2102.4	2110.4	2124.3	2122.3	2138.2	2154.1	2168.0	2162.0
17.5°	2213.6	2179.9	2183.8	2203.7	2201.7	2197.7	2171.9	2164.0	2171.9	2179.9	2175.9
20°	2283.1	2287.1	2257.3	2239.4	2231.5	2191.8	2171.9	2148.1	2124.3	2136.2	2154.1
22.5°	2370.5	2352.6	2308.9	2255.3	2215.6	2191.8	2130.2	2088.5	2088.5	2100.5	2094.5
25°	2469.7	2432.0	2356.6	2259.3	2209.6	2108.4	2064.7	2058.8	2042.9	2060.8	2068.7
27.5°	2547.2	2513.4	2410.2	2245.4	2108.4	2027.0	2001.2	1993.3	2019.1	2021.0	2052.8
30°	2578.9	2569.0	2418.1	2209.6	2005.2	1874.1	1858.2	1894.0	1921.8	1963.5	1965.5
32.5°	2620.6	2624.6	2430.0	2126.3	1870.2	1739.1	1715.3	1759.0	1838.4	1872.1	1898.0
35°	2690.1	2709.9	2420.1	2023.0	1727.2	1602.1	1598.2	1610.1	1687.5	1747.1	1780.8
37.5°	2811.2	2807.2	2418.1	1899.9	1614.1	1483.0	1451.3	1455.2	1506.8	1556.5	1550.5
40°	2974.0	2958.1	2412.2	1739.1	1467.1	1381.8	1328.2	1308.3	1304.3	1290.5	1294.4
42.5°	3196.3	3164.6	2410.2	1576.3	1334.1	1242.8	1205.1	1153.5	1115.7	1044.3	1048.2
45°	3506.1	3450.5	2358.5	1423.5	1203.1	1127.7	1070.1	1032.4	951.0	861.6	861.6
47.5°	3984.5	3803.9	2360.5	1254.7	1076.0	1014.5	974.8	909.3	821.9	750.4	742.5
50°	4689.3	4276.4	2293.0	1121.7	972.8	931.1	889.4	814.0	730.6	681.0	686.9
52.5°	5598.6	4981.1	2291.0	1002.6	891.4	861.6	816.0	748.5	686.9	655.2	643.2
55°	6682.5	5914.2	2362.5	905.3	808.0	792.1	772.3	716.7	657.1	629.3	627.4
57.5°	7792.3	6825.5	2477.7	835.8	736.5	748.5	734.6	690.9	643.2	611.5	607.5
60°	8779.0	7548.1	2245.4	752.4	673.0	698.8	718.7	681.0	655.2	653.2	639.3
62.5°	9523.5	7857.9	1707.4	688.9	639.3	686.9	740.5	764.3	752.4	768.3	770.3
65°	9795.5	7671.2	1175.3	655.2	613.5	714.7	833.8	825.9	756.4	726.6	742.5
67.5°	9414.3	6914.8	871.6	615.4	595.6	772.3	887.4	788.2	682.9	679.0	667.1
70°	8096.1	5860.6	710.7	573.8	565.8	740.5	863.6	730.6	643.2	617.4	605.5
72°	6450.3	4564.2	623.4	544.0	518.2	661.1	808.0	684.9	609.5	577.7	563.8
72.5°	5888.4	4230.7	611.5	530.1	508.2	643.2	780.2	671.0	601.5	573.8	551.9
75°	3230.1	2166.0	538.0	486.4	428.8	555.9	722.7	629.3	567.8	528.1	524.1
77.5°	1201.1	839.8	464.6	430.8	371.3	480.4	657.1	597.6	516.2	466.5	456.6
80°	460.6	442.7	379.2	363.3	311.7	420.9	605.5	536.0	438.8	389.1	373.2
82.5°	279.9	258.1	287.9	283.9	238.2	383.2	569.8	502.3	389.1	315.7	305.7
85°	152.9	152.9	200.5	192.6	166.8	305.7	430.8	333.5	246.2	202.5	206.5
87.5°	67.5	79.4	107.2	101.3	91.3	172.7	210.4	176.7	123.1	83.4	89.3
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)