

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: P478566

Luminaire Tested: **IFLD-M-SA4A-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478566
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

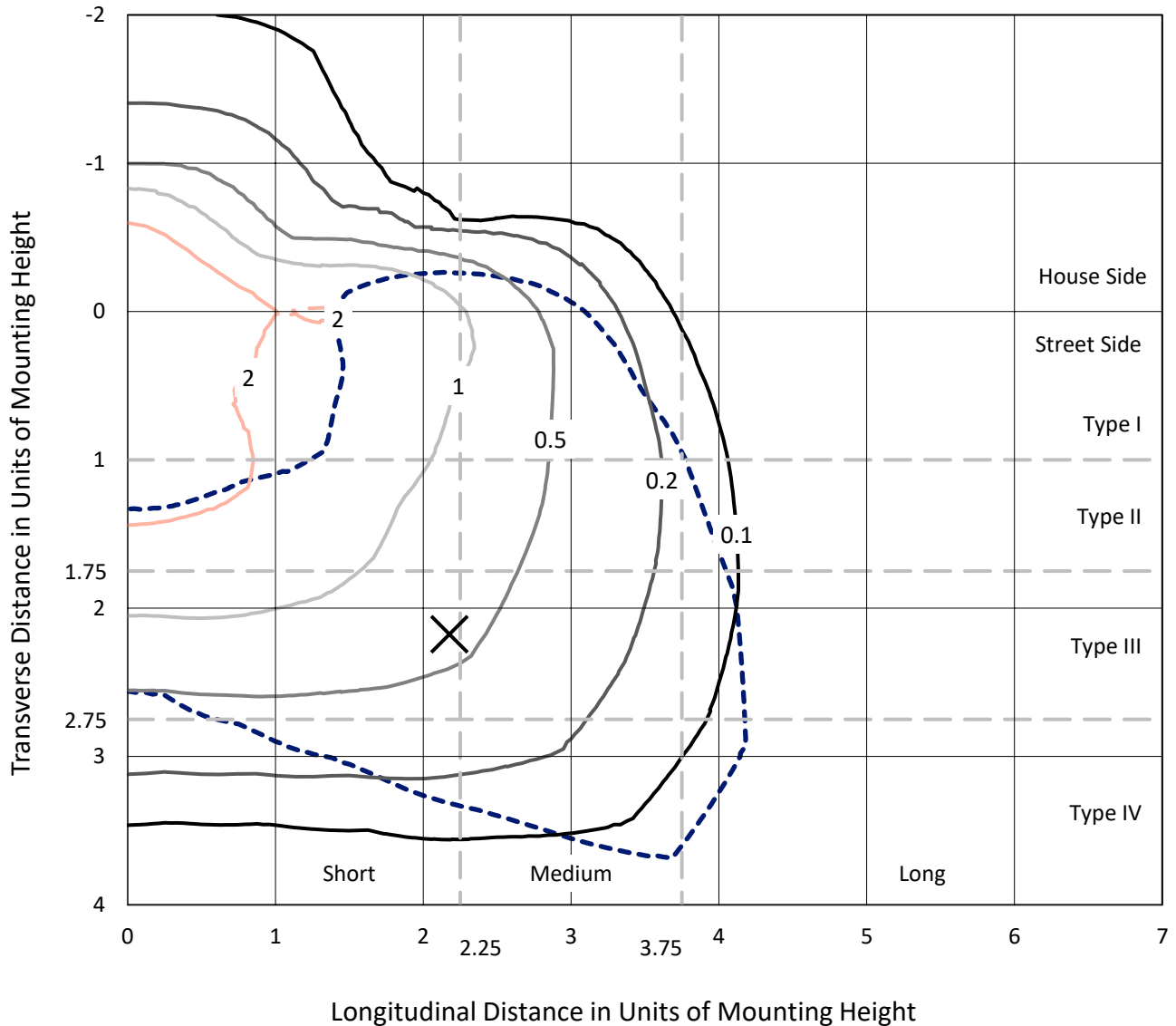
Lumens per Lamp: N/A
Luminaire Lumens: 18666.5 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

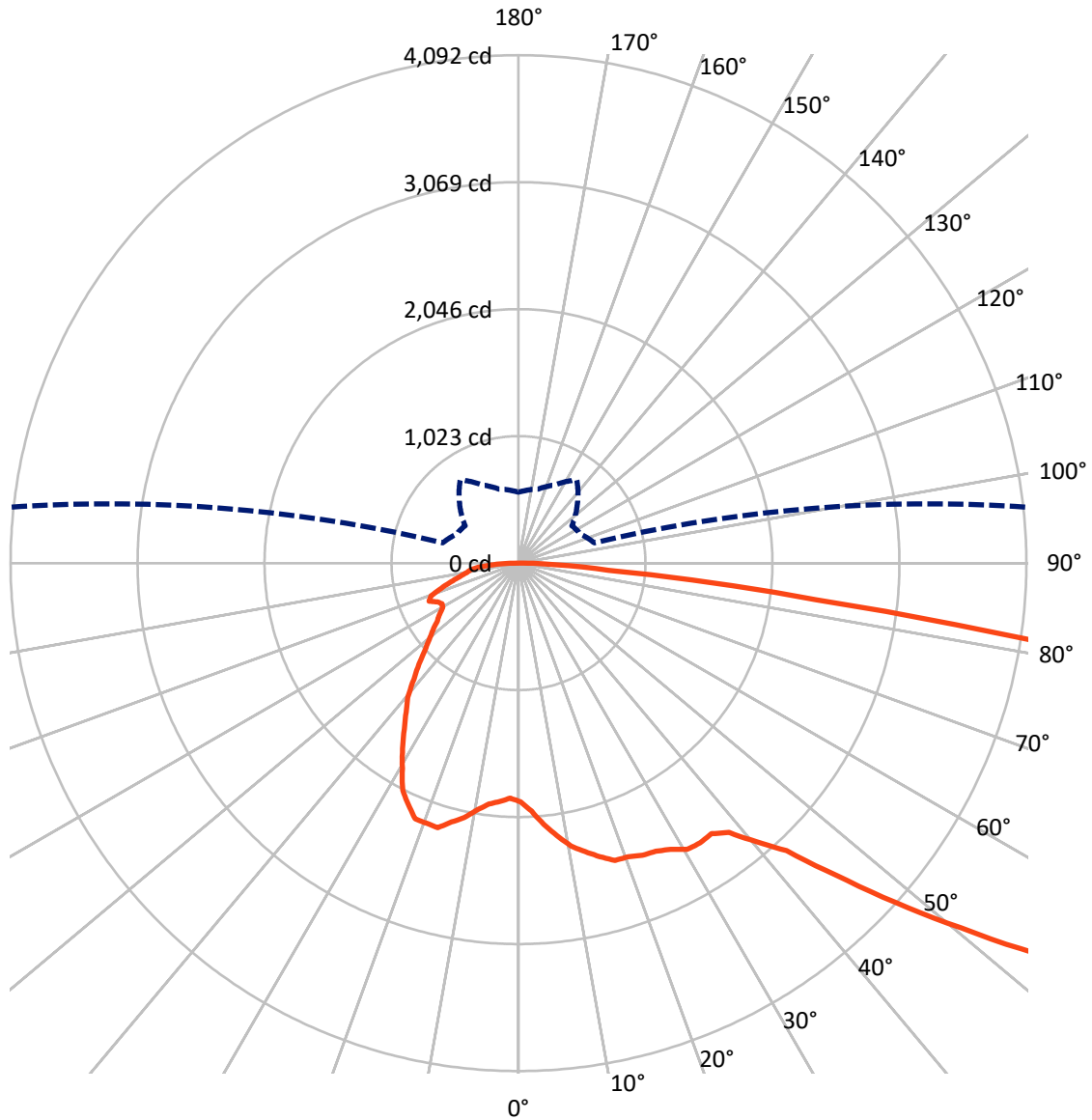
× Max cd
 - - - 1/2 Max cd



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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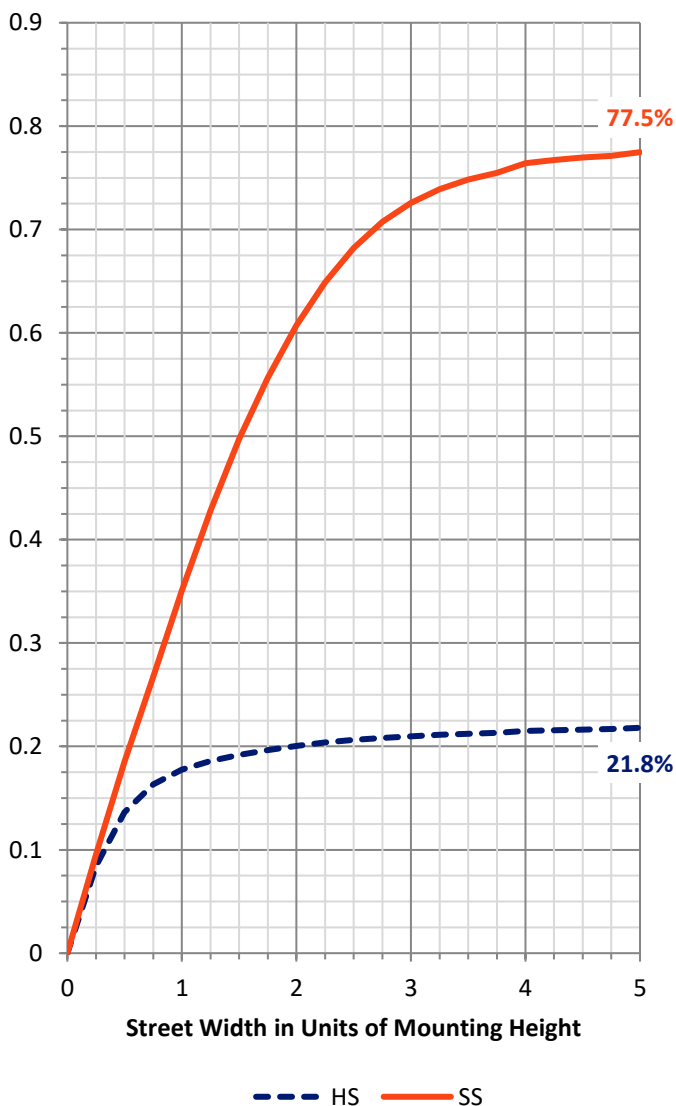
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4155.3	0.0	4155.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	14511.2	0.0	14511.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	18666.5	0.0	18666.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	1.1
10°-20°	654.5	3.5
20°-30°	1105.2	5.9
30°-40°	1529.4	8.2
40°-50°	2187.7	11.7
50°-60°	3528.4	18.9
60°-70°	5203.9	27.9
70°-80°	3779.0	20.2
80°-90°	481.7	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°	18666.5	100.0
0°-180°	18666.5	100.0

Coefficient of Utilization



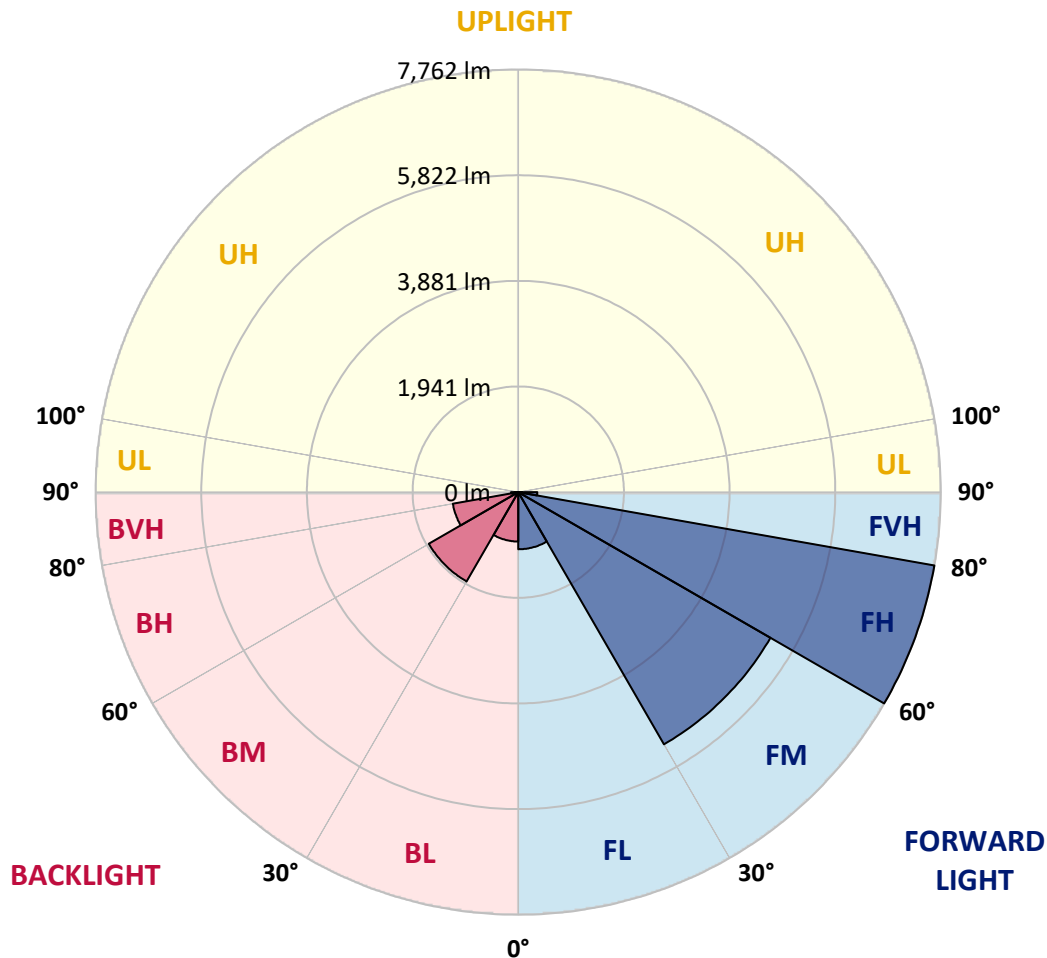
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.1	5.6			
FM (30°-60°)	5349.2	28.7			
FH (60°-80°)	7762.3	41.6			G4/12000
FVH (80°-90°)	350.6	1.9			G3/500
BL (0°-30°)	907.3	4.9	B2/1000		
BM (30°-60°)	1896.3	10.2	B2/2500		
BH (60°-80°)	1220.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	131.1	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°	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3
2.5°	2025.0	2037.0	2025.0	2022.9	2002.8	1988.7	2000.8	1982.7	1962.6	1954.5	1936.4
5°	2210.1	2212.2	2190.0	2192.0	2149.8	2105.5	2113.5	2059.2	2000.8	1978.7	1942.4
7.5°	2399.4	2377.2	2345.0	2334.9	2268.5	2220.2	2214.2	2165.9	2075.3	2025.0	1974.6
10°	2522.1	2530.2	2477.9	2433.6	2377.2	2318.8	2316.8	2226.3	2173.9	2099.4	2035.0
12.5°	2630.8	2632.9	2588.6	2518.1	2447.7	2375.2	2385.3	2345.0	2256.4	2186.0	2121.6
15°	2715.4	2703.3	2655.0	2590.6	2516.1	2459.7	2453.7	2419.5	2345.0	2286.6	2180.0
17.5°	2739.5	2733.5	2685.2	2616.8	2544.3	2502.0	2518.1	2461.8	2431.6	2379.2	2276.6
20°	2693.2	2679.2	2671.1	2594.6	2542.3	2538.2	2524.2	2536.2	2485.9	2437.6	2363.1
22.5°	2608.7	2602.7	2598.6	2538.2	2514.1	2532.2	2556.4	2574.5	2566.4	2520.1	2435.6
25°	2522.1	2550.3	2524.2	2496.0	2530.2	2576.5	2570.5	2628.8	2628.8	2614.7	2544.3
27.5°	2582.5	2564.4	2544.3	2530.2	2542.3	2614.7	2610.7	2681.2	2707.3	2681.2	2600.6
30°	2733.5	2715.4	2657.0	2594.6	2578.5	2657.0	2677.1	2739.5	2751.6	2687.2	2618.8
32.5°	3017.3	3007.3	2914.7	2731.5	2632.9	2677.1	2687.2	2757.7	2747.6	2707.3	2679.2
35°	3438.0	3403.8	3275.0	2965.0	2747.6	2703.3	2677.1	2733.5	2771.7	2751.6	2725.4
37.5°	3899.0	3860.7	3701.7	3309.2	2954.9	2773.8	2753.6	2799.9	2844.2	2834.1	2779.8
40°	4339.8	4339.8	4196.9	3739.9	3262.9	2944.9	2948.9	2896.5	2936.8	2918.7	2928.7
42.5°	4774.6	4758.5	4700.1	4245.2	3593.0	3230.7	3166.3	3035.4	3107.9	3101.9	3115.9
45°	5215.4	5203.3	5187.2	4716.2	4066.0	3617.2	3582.9	3347.4	3413.9	3385.7	3446.1
47.5°	5567.6	5581.7	5581.7	5241.6	4571.3	4132.5	4082.1	3709.7	3836.6	3850.6	3864.7
50°	5867.6	5873.6	5867.6	5742.8	5134.9	4722.2	4619.6	4241.1	4368.0	4478.7	4607.5
52.5°	6282.2	6290.3	6262.1	6213.8	5899.8	5342.2	5227.5	4806.8	5066.4	5183.2	5414.7
55°	6793.5	6733.1	6680.8	6717.0	6634.5	6024.6	5905.8	5390.5	5781.0	5936.0	6399.0
57.5°	6888.1	6940.4	7073.3	7361.1	7479.9	6688.8	6620.4	6107.1	6588.2	6723.0	7496.0
60°	7222.2	7135.7	7461.8	8085.8	8218.6	7554.4	7483.9	6892.1	7391.3	7532.2	8508.5
62.5°	7441.6	7437.6	7920.7	8661.4	8963.4	8452.1	8309.2	7912.7	8258.9	8395.7	9611.5
65°	7377.2	7435.6	8293.1	8999.6	9585.4	9472.6	9390.1	8790.3	9247.2	9235.1	10330.1
67.5°	6789.5	6954.5	8057.6	9243.2	10511.3	10716.6	10690.4	10024.2	10050.3	9794.7	10650.2
70°	5974.2	5917.9	7061.2	8989.5	10974.3	12192.0	12186.0	10942.0	10773.0	9917.5	9732.3
72°	4589.4	4527.0	5467.0	7719.4	10730.7	12781.8	12963.0	11578.1	10764.9	9408.2	8039.5
72.5°	4166.7	4112.3	5048.3	7266.5	10461.0	12934.8	12850.3	11602.3	10680.4	9168.7	7510.1
75°	1918.3	1855.9	2522.1	4448.5	8160.2	11461.4	11749.2	10857.5	9327.7	7298.7	4498.8
77.5°	571.7	553.5	811.2	1795.5	4742.4	8444.1	8554.8	8192.4	6511.7	3997.6	1668.7
80°	318.0	320.0	418.7	672.3	2085.3	4881.2	5279.8	5060.4	3194.4	1320.5	555.6
82.5°	177.1	187.2	261.7	398.6	958.1	2240.3	2411.4	2324.9	1155.4	620.0	303.9
85°	92.6	96.6	136.9	213.4	543.5	708.5	728.7	781.0	599.8	422.7	163.0
87.5°	36.2	36.2	50.3	88.6	201.3	219.4	197.3	239.5	344.2	273.8	80.5
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°	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3	1922.3
2.5°	1952.5	1936.4	1934.4	1908.2	1916.3	1894.1	1896.1	1892.1	1894.1	1890.1	1880.0
5°	1942.4	1930.4	1896.1	1918.3	1898.2	1926.3	1948.5	1940.4	1946.5	1944.4	1946.5
7.5°	1956.5	1940.4	1936.4	1924.3	1942.4	1954.5	1972.6	2022.9	2018.9	2025.0	2037.0
10°	1998.8	1980.7	1968.6	1986.7	1976.7	2014.9	2035.0	2061.2	2107.5	2109.5	2085.3
12.5°	2081.3	2069.2	2045.1	2049.1	2083.3	2095.4	2107.5	2123.6	2153.8	2147.7	2169.9
15°	2175.9	2149.8	2135.7	2131.6	2139.7	2153.8	2151.8	2167.9	2184.0	2198.1	2192.0
17.5°	2244.4	2210.1	2214.2	2234.3	2232.3	2228.3	2202.1	2194.0	2202.1	2210.1	2206.1
20°	2314.8	2318.8	2288.7	2270.5	2262.5	2222.2	2202.1	2177.9	2153.8	2165.9	2184.0
22.5°	2403.4	2385.3	2341.0	2286.6	2246.4	2222.2	2159.8	2117.6	2117.6	2129.6	2123.6
25°	2504.0	2465.8	2389.3	2290.7	2240.3	2137.7	2093.4	2087.4	2071.3	2089.4	2097.4
27.5°	2582.5	2548.3	2443.6	2276.6	2137.7	2055.2	2029.0	2020.9	2047.1	2049.1	2081.3
30°	2614.7	2604.7	2451.7	2240.3	2033.0	1900.2	1884.1	1920.3	1948.5	1990.7	1992.8
32.5°	2657.0	2661.0	2463.8	2155.8	1896.1	1763.3	1739.1	1783.4	1863.9	1898.2	1924.3
35°	2727.5	2747.6	2453.7	2051.1	1751.2	1624.4	1620.4	1632.4	1711.0	1771.3	1805.6
37.5°	2850.2	2846.2	2451.7	1926.3	1636.5	1503.6	1471.4	1475.4	1527.8	1578.1	1572.1
40°	3015.3	2999.2	2445.7	1763.3	1487.5	1401.0	1346.6	1326.5	1322.5	1308.4	1312.4
42.5°	3240.7	3208.5	2443.6	1598.2	1352.7	1260.1	1221.8	1169.5	1131.2	1058.8	1062.8
45°	3554.8	3498.4	2391.3	1443.2	1219.8	1143.3	1084.9	1046.7	964.2	873.6	873.6
47.5°	4039.9	3856.7	2393.3	1272.1	1091.0	1028.6	988.3	921.9	833.3	760.9	752.8
50°	4754.4	4335.8	2324.9	1137.3	986.3	944.0	901.8	825.3	740.7	690.4	696.5
52.5°	5676.3	5050.3	2322.9	1016.5	903.8	873.6	827.3	758.9	696.5	664.3	652.2
55°	6775.4	5996.4	2395.3	917.9	819.2	803.1	783.0	726.7	666.3	638.1	636.1
57.5°	7900.6	6920.3	2512.1	847.4	746.8	758.9	744.8	700.5	652.2	620.0	615.9
60°	8901.0	7653.0	2276.6	762.9	682.4	708.5	728.7	690.4	664.3	662.2	648.1
62.5°	9655.8	7967.0	1731.1	698.5	648.1	696.5	750.8	775.0	762.9	779.0	781.0
65°	9931.6	7777.8	1191.6	664.3	622.0	724.6	845.4	837.4	766.9	736.7	752.8
67.5°	9545.1	7010.9	883.7	624.0	603.9	783.0	899.8	799.1	692.4	688.4	676.3
70°	8208.5	5942.0	720.6	581.7	573.7	750.8	875.6	740.7	652.2	626.0	613.9
72°	6539.9	4627.6	632.0	551.5	525.4	670.3	819.2	694.4	618.0	585.7	571.7
72.5°	5970.2	4289.5	620.0	537.4	515.3	652.2	791.1	680.4	609.9	581.7	559.6
75°	3275.0	2196.1	545.5	493.2	434.8	563.6	732.7	638.1	575.7	535.4	531.4
77.5°	1217.8	851.5	471.0	436.8	376.4	487.1	666.3	605.9	523.4	473.0	463.0
80°	467.0	448.9	384.5	368.4	316.0	426.7	613.9	543.5	444.8	394.5	378.4
82.5°	283.8	261.7	291.9	287.8	241.5	388.5	577.7	509.3	394.5	320.0	310.0
85°	155.0	155.0	203.3	195.2	169.1	310.0	436.8	338.2	249.6	205.3	209.3
87.5°	68.4	80.5	108.7	102.7	92.6	175.1	213.4	179.1	124.8	84.5	90.6
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)