

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: P478488

Luminaire Tested: **IFLD-M-SA4A-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478488
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

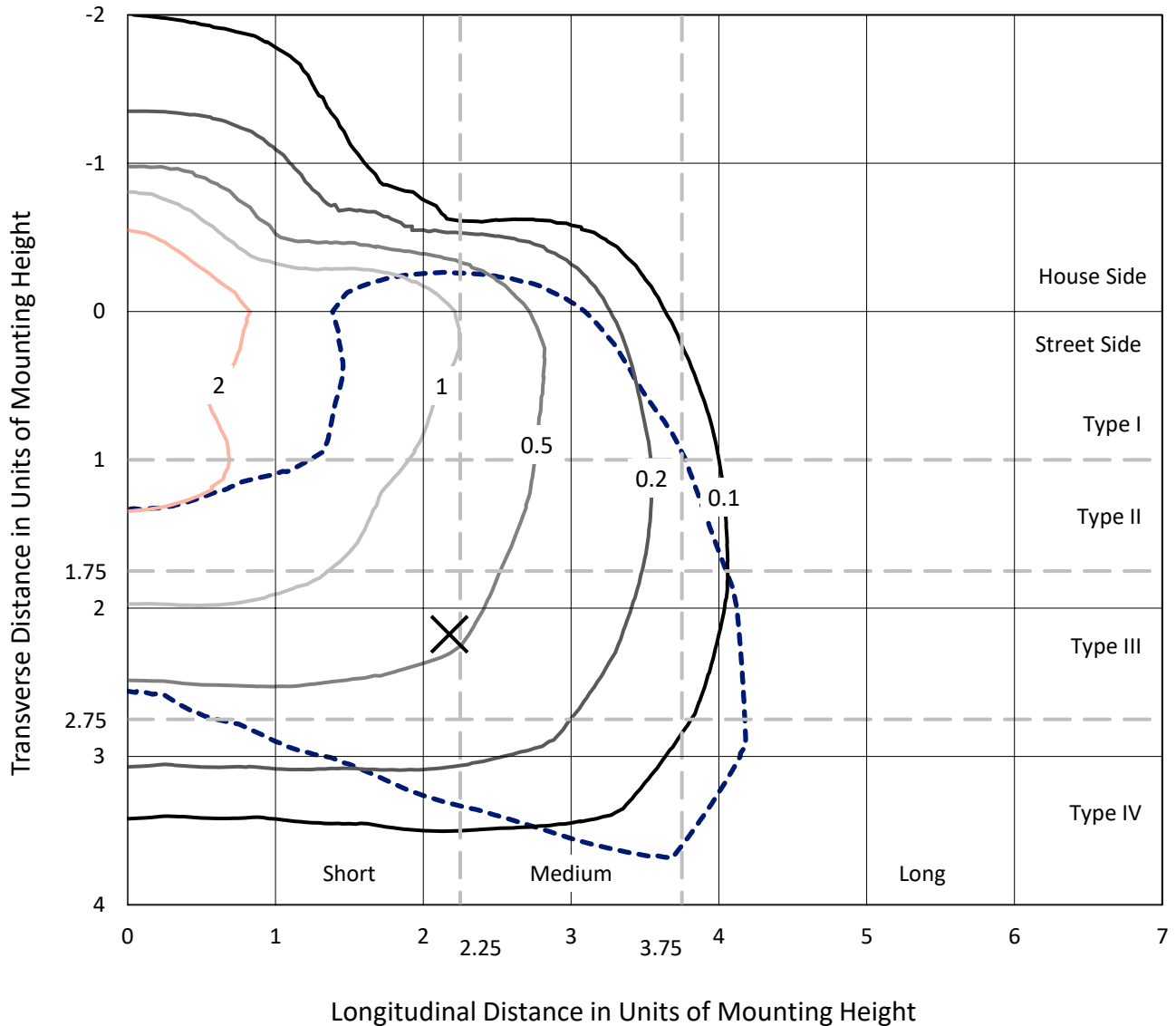
Lumens per Lamp: N/A
Luminaire Lumens: 16997.7 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

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

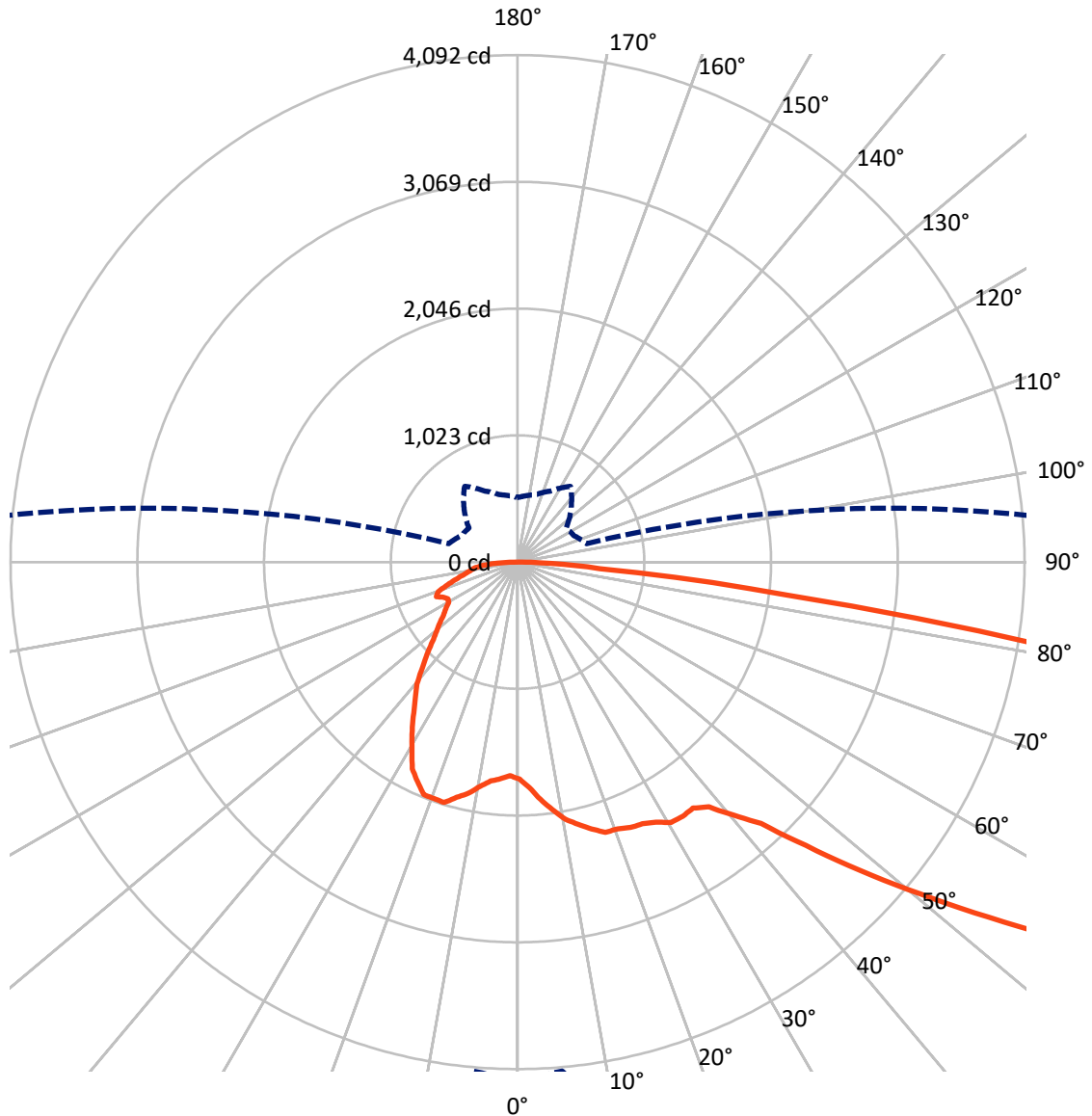
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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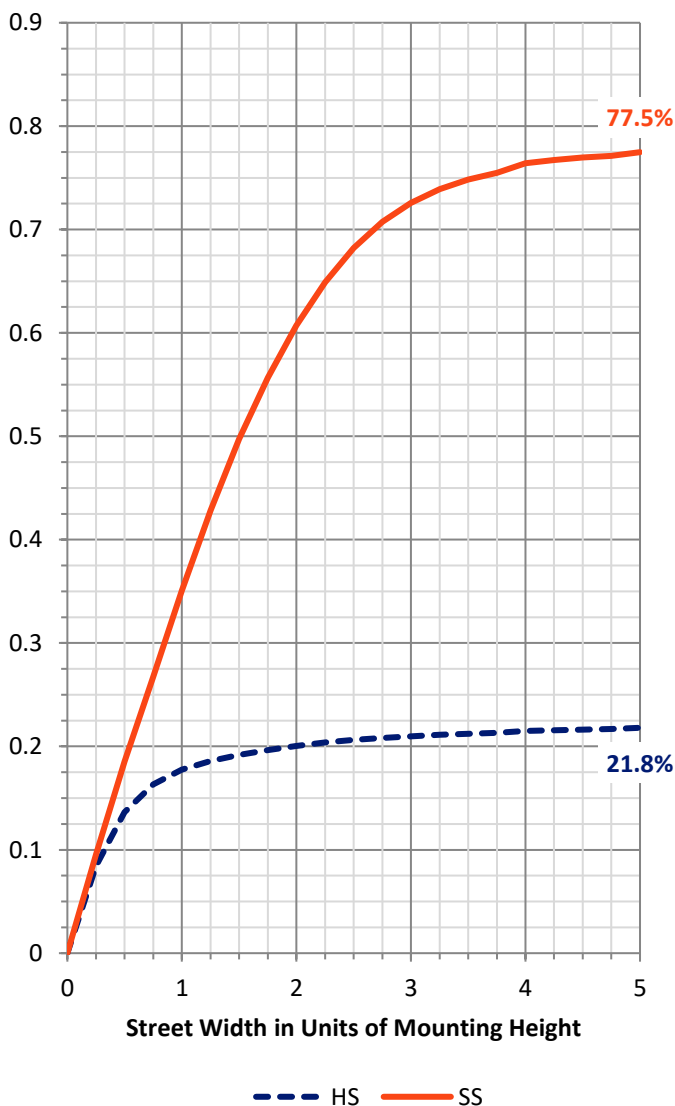
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3783.8	0.0	3783.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13213.9	0.0	13213.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	16997.7	0.0	16997.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	1.1
10°-20°	595.9	3.5
20°-30°	1006.4	5.9
30°-40°	1392.7	8.2
40°-50°	1992.1	11.7
50°-60°	3213.0	18.9
60°-70°	4738.7	27.9
70°-80°	3441.1	20.2
80°-90°	438.7	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°	16997.7	100.0
0°-180°	16997.7	100.0

Coefficient of Utilization



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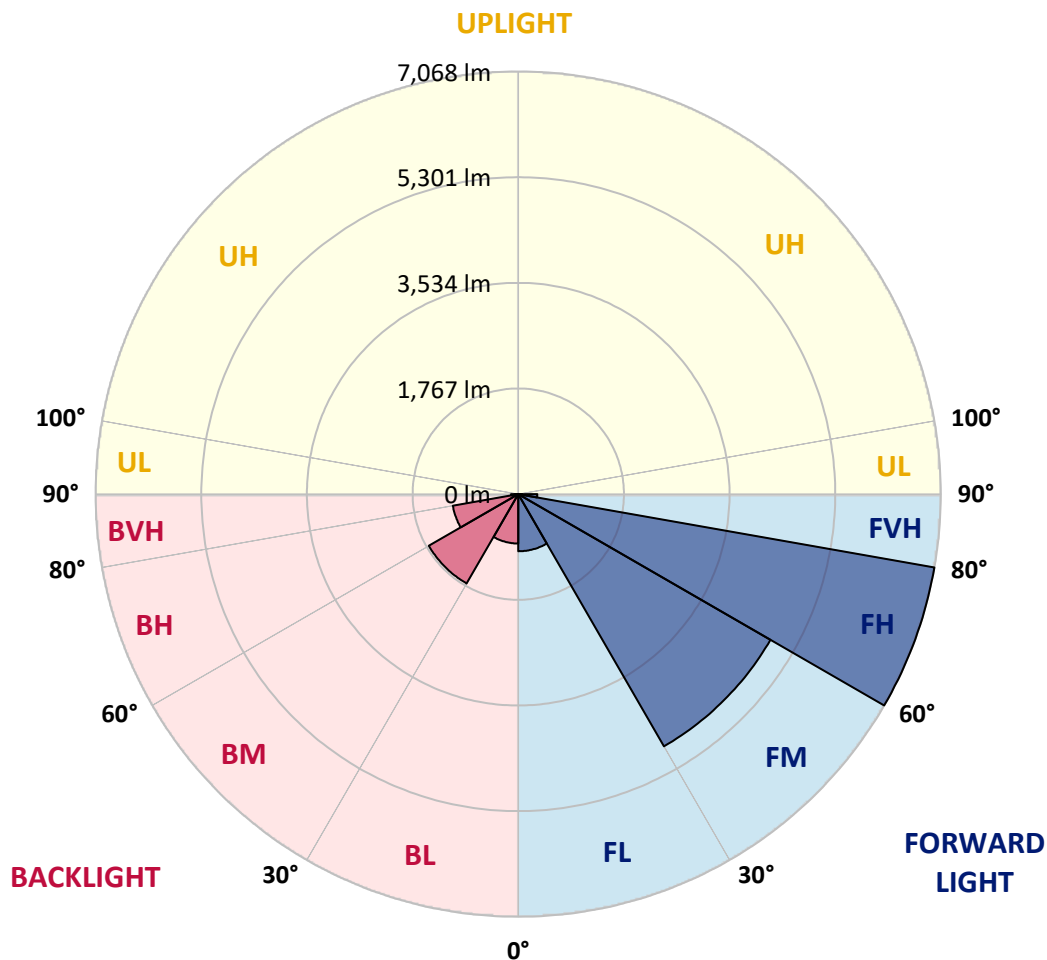
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.3	5.6			
FM (30°-60°)	4870.9	28.7			
FH (60°-80°)	7068.4	41.6			G3/7500
FVH (80°-90°)	319.3	1.9			G3/500
BL (0°-30°)	826.2	4.9	B2/1000		
BM (30°-60°)	1726.8	10.2	B2/2500		
BH (60°-80°)	1111.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	119.4	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5
2.5°	1843.9	1854.9	1843.9	1842.1	1823.8	1810.9	1821.9	1805.4	1787.1	1779.8	1763.3
5°	2012.6	2014.4	1994.2	1996.1	1957.6	1917.2	1924.6	1875.1	1821.9	1801.8	1768.8
7.5°	2184.9	2164.7	2135.4	2126.2	2065.7	2021.7	2016.2	1972.2	1889.8	1843.9	1798.1
10°	2296.7	2304.0	2256.3	2216.0	2164.7	2111.5	2109.7	2027.2	1979.6	1911.7	1853.1
12.5°	2395.6	2397.5	2357.2	2293.0	2228.8	2162.9	2172.0	2135.4	2054.7	1990.6	1931.9
15°	2472.6	2461.6	2417.6	2359.0	2291.2	2239.8	2234.3	2203.2	2135.4	2082.2	1985.1
17.5°	2494.6	2489.1	2445.1	2382.8	2316.8	2278.3	2293.0	2241.7	2214.2	2166.5	2073.0
20°	2452.5	2439.6	2432.3	2362.7	2315.0	2311.3	2298.5	2309.5	2263.7	2219.7	2151.9
22.5°	2375.5	2370.0	2366.3	2311.3	2289.3	2305.8	2327.8	2344.3	2337.0	2294.8	2217.8
25°	2296.7	2322.3	2298.5	2272.8	2304.0	2346.2	2340.7	2393.8	2393.8	2381.0	2316.8
27.5°	2351.7	2335.2	2316.8	2304.0	2315.0	2381.0	2377.3	2441.5	2465.3	2441.5	2368.1
30°	2489.1	2472.6	2419.5	2362.7	2348.0	2419.5	2437.8	2494.6	2505.6	2447.0	2384.6
32.5°	2747.6	2738.4	2654.1	2487.3	2397.5	2437.8	2447.0	2511.1	2502.0	2465.3	2439.6
35°	3130.7	3099.5	2982.2	2699.9	2502.0	2461.6	2437.8	2489.1	2523.9	2505.6	2481.8
37.5°	3550.4	3515.6	3370.8	3013.3	2690.7	2525.8	2507.5	2549.6	2589.9	2580.8	2531.3
40°	3951.8	3951.8	3821.7	3405.6	2971.2	2681.6	2685.2	2637.6	2674.2	2657.8	2666.9
42.5°	4347.7	4333.1	4279.9	3865.7	3271.8	2941.9	2883.2	2764.1	2830.0	2824.6	2837.4
45°	4749.1	4738.1	4723.5	4294.6	3702.5	3293.8	3262.6	3048.2	3108.7	3083.0	3138.0
47.5°	5069.9	5082.7	5082.7	4773.0	4162.6	3763.0	3717.2	3378.1	3493.6	3506.4	3519.2
50°	5343.0	5348.5	5343.0	5229.4	4675.8	4300.1	4206.6	3862.0	3977.5	4078.3	4195.6
52.5°	5720.6	5727.9	5702.3	5658.3	5372.3	4864.6	4760.1	4377.0	4613.5	4719.8	4930.6
55°	6186.2	6131.2	6083.5	6116.5	6041.3	5486.0	5377.8	4908.6	5264.2	5405.3	5826.9
57.5°	6272.3	6320.0	6440.9	6703.0	6811.2	6090.8	6028.5	5561.1	5999.2	6122.0	6825.8
60°	6576.6	6497.7	6794.7	7362.9	7483.9	6879.0	6814.8	6276.0	6730.5	6858.8	7747.8
62.5°	6776.4	6772.7	7212.6	7887.1	8162.1	7696.5	7566.3	7205.3	7520.5	7645.2	8752.3
65°	6717.7	6770.9	7551.7	8195.0	8728.4	8625.8	8550.6	8004.4	8420.5	8409.5	9406.6
67.5°	6182.5	6332.8	7337.2	8416.8	9571.6	9758.5	9734.7	9128.0	9151.8	8919.1	9698.1
70°	5440.1	5388.8	6429.9	8185.9	9993.2	11102.1	11096.6	9963.8	9809.9	9030.9	8862.2
72°	4179.1	4122.3	4978.2	7029.3	9771.4	11639.1	11804.1	10543.0	9802.5	8567.1	7320.7
72.5°	3794.2	3744.7	4597.0	6616.9	9525.8	11778.4	11701.4	10565.0	9725.5	8349.0	6838.7
75°	1746.8	1690.0	2296.7	4050.8	7430.7	10436.7	10698.8	9886.8	8493.8	6646.2	4096.6
77.5°	520.6	504.1	738.7	1635.0	4318.4	7689.2	7790.0	7460.0	5929.5	3640.2	1519.5
80°	289.6	291.4	381.3	612.2	1898.9	4444.9	4807.8	4608.0	2908.9	1202.4	505.9
82.5°	161.3	170.5	238.3	362.9	872.5	2040.1	2195.9	2117.0	1052.1	564.5	276.8
85°	84.3	88.0	124.6	194.3	494.9	645.2	663.5	711.2	546.2	384.9	148.5
87.5°	33.0	33.0	45.8	80.6	183.3	199.8	179.6	218.1	313.4	249.3	73.3
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°	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5	1750.5
2.5°	1777.9	1763.3	1761.4	1737.6	1745.0	1724.8	1726.6	1723.0	1724.8	1721.1	1712.0
5°	1768.8	1757.8	1726.6	1746.8	1728.5	1754.1	1774.3	1766.9	1772.4	1770.6	1772.4
7.5°	1781.6	1766.9	1763.3	1752.3	1768.8	1779.8	1796.3	1842.1	1838.4	1843.9	1854.9
10°	1820.1	1803.6	1792.6	1809.1	1799.9	1834.8	1853.1	1876.9	1919.1	1920.9	1898.9
12.5°	1895.3	1884.3	1862.3	1865.9	1897.1	1908.1	1919.1	1933.7	1961.2	1955.7	1975.9
15°	1981.4	1957.6	1944.7	1941.1	1948.4	1961.2	1959.4	1974.1	1988.7	2001.6	1996.1
17.5°	2043.7	2012.6	2016.2	2034.6	2032.7	2029.1	2005.2	1997.9	2005.2	2012.6	2008.9
20°	2107.9	2111.5	2084.0	2067.5	2060.2	2023.6	2005.2	1983.2	1961.2	1972.2	1988.7
22.5°	2188.5	2172.0	2131.7	2082.2	2045.6	2023.6	1966.7	1928.2	1928.2	1939.2	1933.7
25°	2280.2	2245.3	2175.7	2085.9	2040.1	1946.6	1906.3	1900.8	1886.1	1902.6	1909.9
27.5°	2351.7	2320.5	2225.2	2073.0	1946.6	1871.4	1847.6	1840.3	1864.1	1865.9	1895.3
30°	2381.0	2371.8	2232.5	2040.1	1851.3	1730.3	1715.6	1748.6	1774.3	1812.8	1814.6
32.5°	2419.5	2423.1	2243.5	1963.1	1726.6	1605.6	1583.7	1624.0	1697.3	1728.5	1752.3
35°	2483.6	2502.0	2234.3	1867.8	1594.7	1479.2	1475.5	1486.5	1558.0	1613.0	1644.1
37.5°	2595.4	2591.8	2232.5	1754.1	1490.2	1369.2	1339.9	1343.5	1391.2	1437.0	1431.5
40°	2745.7	2731.1	2227.0	1605.6	1354.5	1275.7	1226.2	1207.9	1204.2	1191.4	1195.1
42.5°	2951.0	2921.7	2225.2	1455.3	1231.7	1147.4	1112.6	1064.9	1030.1	964.1	967.8
45°	3237.0	3185.6	2177.5	1314.2	1110.8	1041.1	988.0	953.1	878.0	795.5	795.5
47.5°	3678.7	3511.9	2179.4	1158.4	993.4	936.6	900.0	839.5	758.8	692.8	685.5
50°	4329.4	3948.1	2117.0	1035.6	898.1	859.6	821.2	751.5	674.5	628.7	634.2
52.5°	5168.9	4598.8	2115.2	925.6	823.0	795.5	753.3	691.0	634.2	604.9	593.9
55°	6169.7	5460.3	2181.2	835.8	746.0	731.3	713.0	661.7	606.7	581.0	579.2
57.5°	7194.3	6301.6	2287.5	771.7	680.0	691.0	678.2	637.9	593.9	564.5	560.9
60°	8105.2	6968.8	2073.0	694.7	621.4	645.2	663.5	628.7	604.9	603.0	590.2
62.5°	8792.6	7254.8	1576.3	636.0	590.2	634.2	683.7	705.7	694.7	709.3	711.2
65°	9043.7	7082.5	1085.1	604.9	566.4	659.9	769.8	762.5	698.3	670.9	685.5
67.5°	8691.8	6384.1	804.7	568.2	549.9	713.0	819.3	727.7	630.5	626.9	615.9
70°	7474.7	5410.8	656.2	529.7	522.4	683.7	797.3	674.5	593.9	570.0	559.0
72°	5955.2	4213.9	575.5	502.2	478.4	610.4	746.0	632.4	562.7	533.4	520.6
72.5°	5436.5	3906.0	564.5	489.4	469.2	593.9	720.3	619.5	555.4	529.7	509.6
75°	2982.2	1999.7	496.7	449.1	395.9	513.2	667.2	581.0	524.2	487.6	483.9
77.5°	1108.9	775.3	428.9	397.7	342.8	443.6	606.7	551.7	476.6	430.7	421.6
80°	425.2	408.7	350.1	335.4	287.8	388.6	559.0	494.9	405.1	359.3	344.6
82.5°	258.4	238.3	265.8	262.1	220.0	353.8	526.1	463.7	359.3	291.4	282.3
85°	141.1	141.1	185.1	177.8	154.0	282.3	397.7	307.9	227.3	187.0	190.6
87.5°	62.3	73.3	99.0	93.5	84.3	159.5	194.3	163.1	113.6	77.0	82.5
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)