

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: P478586

Luminaire Tested: **IFLD-S-SA3B-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478586
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

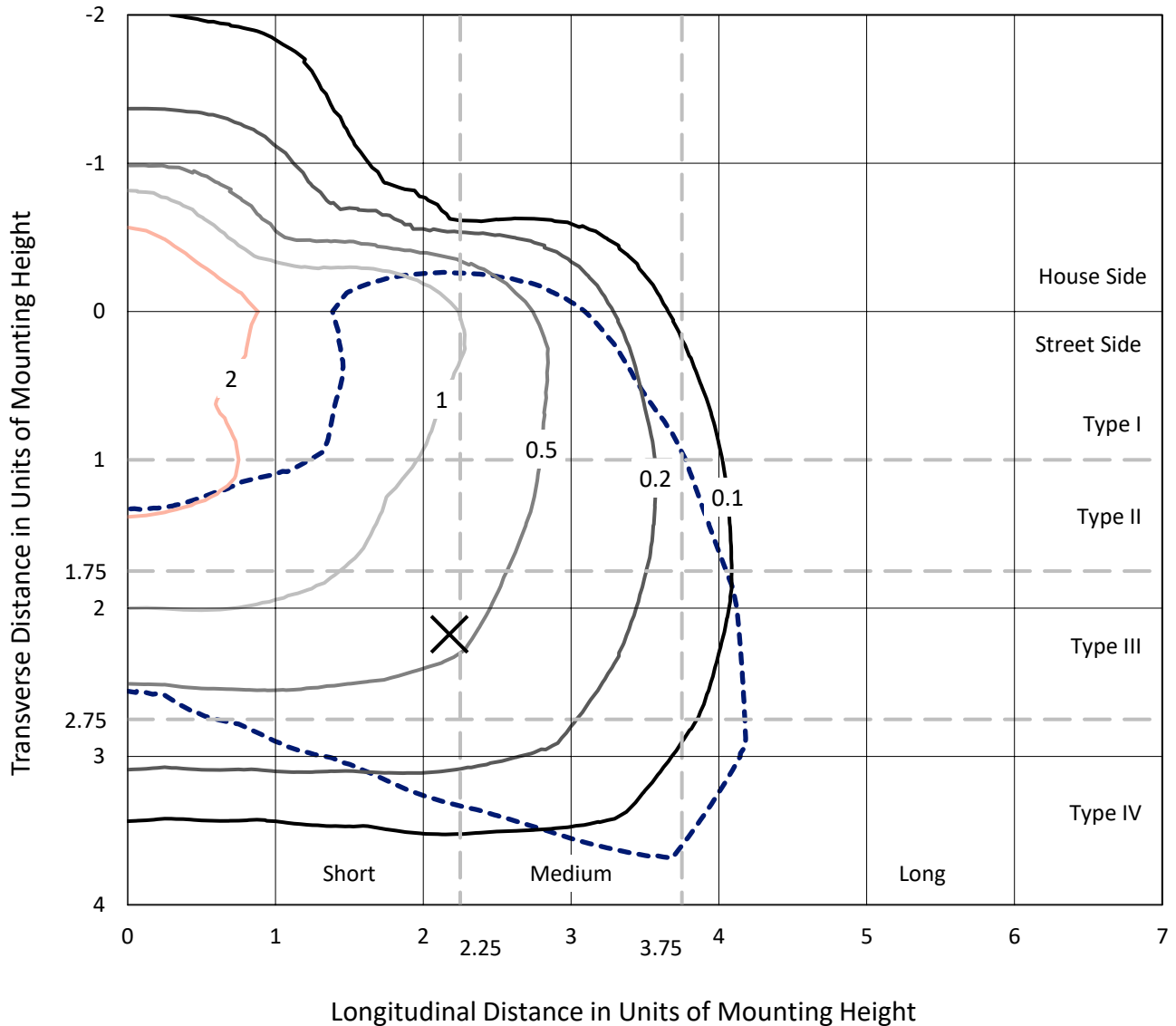
Lumens per Lamp: N/A
Luminaire Lumens: 17593.2 lumens
Efficiency: N/A
Efficacy: 143.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 122.4
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

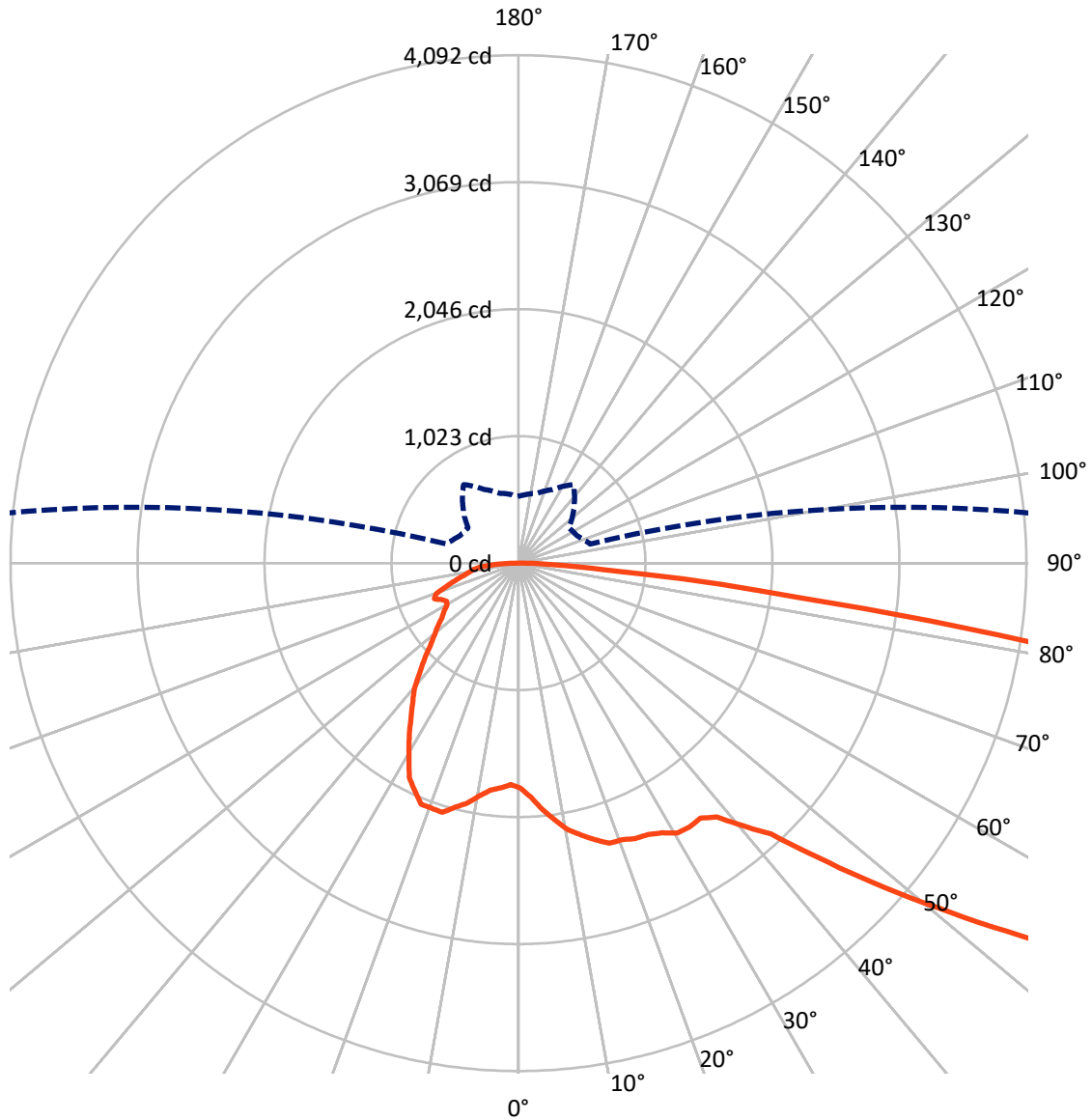
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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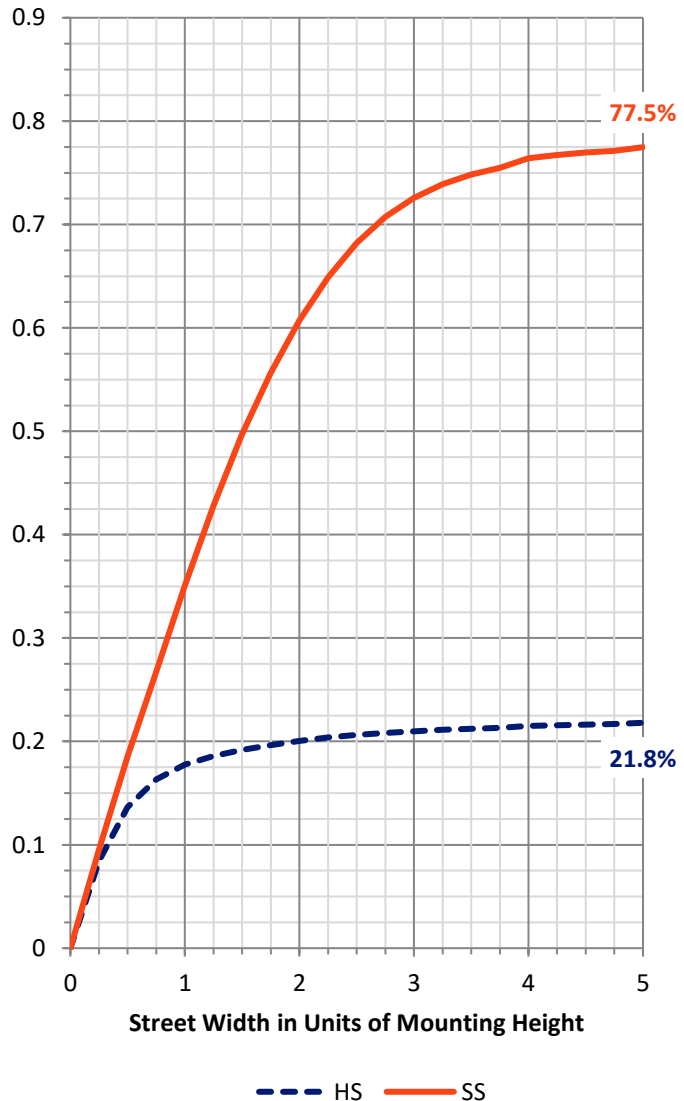
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3916.3	0.0	3916.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13676.8	0.0	13676.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	17593.2	0.0	17593.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	1.1
10°-20°	616.8	3.5
20°-30°	1041.6	5.9
30°-40°	1441.5	8.2
40°-50°	2061.9	11.7
50°-60°	3325.6	18.9
60°-70°	4904.7	27.9
70°-80°	3561.7	20.2
80°-90°	454.0	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°	17593.2	100.0
0°-180°	17593.2	100.0

Coefficient of Utilization



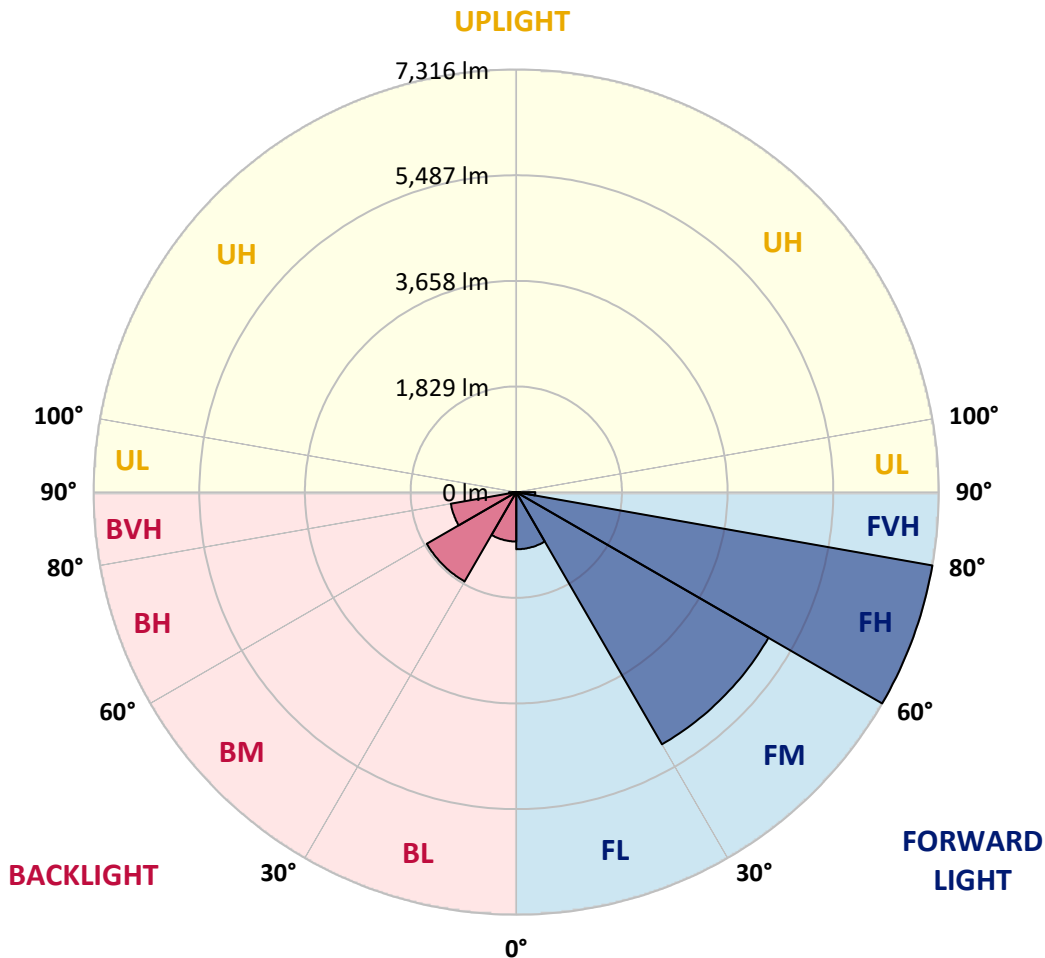
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.7	5.6			
FM (30°-60°)	5041.6	28.7			
FH (60°-80°)	7316.0	41.6			G3/7500
FVH (80°-90°)	330.5	1.9			G3/500
BL (0°-30°)	855.1	4.9	B2/1000		
BM (30°-60°)	1787.3	10.2	B2/2500		
BH (60°-80°)	1150.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	123.6	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°	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8
2.5°	1908.5	1919.9	1908.5	1906.6	1887.7	1874.4	1885.8	1868.7	1849.7	1842.1	1825.1
5°	2083.1	2085.0	2064.1	2066.0	2026.2	1984.4	1992.0	1940.8	1885.8	1864.9	1830.7
7.5°	2261.4	2240.5	2210.2	2200.7	2138.1	2092.6	2086.9	2041.3	1956.0	1908.5	1861.1
10°	2377.1	2384.7	2335.4	2293.7	2240.5	2185.5	2183.6	2098.2	2048.9	1978.7	1918.0
12.5°	2479.6	2481.5	2439.7	2373.3	2306.9	2238.6	2248.1	2210.2	2126.7	2060.3	1999.6
15°	2559.3	2547.9	2502.3	2441.6	2371.4	2318.3	2312.6	2280.4	2210.2	2155.2	2054.6
17.5°	2582.0	2576.3	2530.8	2466.3	2398.0	2358.2	2373.3	2320.2	2291.8	2242.4	2145.7
20°	2538.4	2525.1	2517.5	2445.4	2396.1	2392.3	2379.0	2390.4	2343.0	2297.4	2227.3
22.5°	2458.7	2453.0	2449.2	2392.3	2369.5	2386.6	2409.4	2426.5	2418.9	2375.2	2295.5
25°	2377.1	2403.7	2379.0	2352.5	2384.7	2428.3	2422.7	2477.7	2477.7	2464.4	2398.0
27.5°	2434.0	2417.0	2398.0	2384.7	2396.1	2464.4	2460.6	2527.0	2551.7	2527.0	2451.1
30°	2576.3	2559.3	2504.2	2445.4	2430.2	2504.2	2523.2	2582.0	2593.4	2532.7	2468.2
32.5°	2843.8	2834.3	2747.1	2574.4	2481.5	2523.2	2532.7	2599.1	2589.6	2551.7	2525.1
35°	3240.3	3208.1	3086.7	2794.5	2589.6	2547.9	2523.2	2576.3	2612.4	2593.4	2568.7
37.5°	3674.8	3638.7	3488.9	3118.9	2785.0	2614.3	2595.3	2638.9	2680.7	2671.2	2620.0
40°	4090.3	4090.3	3955.6	3524.9	3075.3	2775.5	2779.3	2730.0	2767.9	2750.9	2760.4
42.5°	4500.0	4484.9	4429.8	4001.1	3386.4	3044.9	2984.2	2860.9	2929.2	2923.5	2936.8
45°	4915.5	4904.1	4889.0	4445.0	3832.2	3409.2	3376.9	3155.0	3217.6	3191.0	3247.9
47.5°	5247.5	5260.8	5260.8	4940.2	4308.4	3894.8	3847.4	3496.4	3616.0	3629.2	3642.5
50°	5530.2	5535.9	5530.2	5412.6	4839.6	4450.7	4354.0	3997.3	4116.8	4221.2	4342.6
52.5°	5921.0	5928.6	5902.0	5856.5	5560.5	5035.0	4926.9	4530.4	4775.1	4885.2	5103.3
55°	6402.9	6346.0	6296.6	6330.8	6253.0	5678.2	5566.2	5080.6	5448.6	5594.7	6031.0
57.5°	6492.0	6541.4	6666.6	6937.9	7049.8	6304.2	6239.7	5755.9	6209.4	6336.5	7065.0
60°	6807.0	6725.4	7032.7	7620.8	7746.1	7120.0	7053.6	6495.8	6966.3	7099.1	8019.2
62.5°	7013.8	7010.0	7465.3	8163.4	8448.0	7966.1	7831.4	7457.7	7784.0	7913.0	9058.9
65°	6953.0	7008.1	7816.3	8482.1	9034.2	8928.0	8850.2	8284.8	8715.5	8704.1	9736.2
67.5°	6399.1	6554.6	7594.3	8711.7	9906.9	10100.4	10075.8	9447.8	9472.5	9231.5	10037.8
70°	5630.7	5577.6	6655.2	8472.7	10343.3	11491.0	11485.3	10312.9	10153.5	9347.2	9172.7
72°	4325.5	4266.7	5152.7	7275.6	10113.7	12046.9	12217.6	10912.4	10145.9	8867.3	7577.2
72.5°	3927.1	3875.9	4758.0	6848.7	9859.5	12191.1	12111.4	10935.2	10066.3	8641.5	7078.3
75°	1808.0	1749.2	2377.1	4192.7	7691.0	10802.4	11073.7	10233.2	8791.4	6879.1	4240.1
77.5°	538.8	521.7	764.6	1692.3	4469.7	7958.5	8062.9	7721.4	6137.3	3767.7	1572.7
80°	299.7	301.6	394.6	633.6	1965.4	4600.6	4976.2	4769.4	3010.8	1244.5	523.6
82.5°	166.9	176.4	246.6	375.6	903.0	2111.5	2272.8	2191.2	1089.0	584.3	286.5
85°	87.3	91.1	129.0	201.1	512.2	667.8	686.8	736.1	565.4	398.4	153.7
87.5°	34.1	34.1	47.4	83.5	189.7	206.8	185.9	225.8	324.4	258.0	75.9
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°	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8
2.5°	1840.2	1825.1	1823.2	1798.5	1806.1	1785.2	1787.1	1783.3	1785.2	1781.4	1771.9
5°	1830.7	1819.4	1787.1	1808.0	1789.0	1815.6	1836.4	1828.9	1834.5	1832.6	1834.5
7.5°	1844.0	1828.9	1825.1	1813.7	1830.7	1842.1	1859.2	1906.6	1902.8	1908.5	1919.9
10°	1883.9	1866.8	1855.4	1872.5	1863.0	1899.0	1918.0	1942.7	1986.3	1988.2	1965.4
12.5°	1961.7	1950.3	1927.5	1931.3	1963.5	1974.9	1986.3	2001.5	2029.9	2024.3	2045.1
15°	2050.8	2026.2	2012.9	2009.1	2016.7	2029.9	2028.1	2043.2	2058.4	2071.7	2066.0
17.5°	2115.3	2083.1	2086.9	2105.8	2103.9	2100.1	2075.5	2067.9	2075.5	2083.1	2079.3
20°	2181.7	2185.5	2157.1	2140.0	2132.4	2094.5	2075.5	2052.7	2029.9	2041.3	2058.4
22.5°	2265.2	2248.1	2206.4	2155.2	2117.2	2094.5	2035.6	1995.8	1995.8	2007.2	2001.5
25°	2360.1	2324.0	2251.9	2159.0	2111.5	2014.8	1973.0	1967.3	1952.2	1969.2	1976.8
27.5°	2434.0	2401.8	2303.1	2145.7	2014.8	1937.0	1912.3	1904.7	1929.4	1931.3	1961.7
30°	2464.4	2454.9	2310.7	2111.5	1916.1	1790.9	1775.7	1809.9	1836.4	1876.3	1878.2
32.5°	2504.2	2508.0	2322.1	2031.8	1787.1	1661.9	1639.1	1680.9	1756.8	1789.0	1813.7
35°	2570.6	2589.6	2312.6	1933.2	1650.5	1531.0	1527.2	1538.6	1612.6	1669.5	1701.7
37.5°	2686.4	2682.6	2310.7	1815.6	1542.4	1417.2	1386.8	1390.6	1439.9	1487.4	1481.7
40°	2841.9	2826.8	2305.0	1661.9	1402.0	1320.4	1269.2	1250.2	1246.4	1233.1	1236.9
42.5°	3054.4	3024.1	2303.1	1506.3	1274.9	1187.6	1151.6	1102.2	1066.2	997.9	1001.7
45°	3350.4	3297.2	2253.8	1360.3	1149.7	1077.6	1022.6	986.5	908.7	823.4	823.4
47.5°	3807.6	3634.9	2255.7	1199.0	1028.3	969.4	931.5	868.9	785.4	717.1	709.5
50°	4481.1	4086.5	2191.2	1071.9	929.6	889.8	849.9	777.8	698.2	650.7	656.4
52.5°	5350.0	4759.9	2189.3	958.1	851.8	823.4	779.7	715.2	656.4	626.1	614.7
55°	6385.8	5651.6	2257.6	865.1	772.1	757.0	738.0	684.9	628.0	601.4	599.5
57.5°	7446.3	6522.4	2367.6	798.7	703.8	715.2	701.9	660.2	614.7	584.3	580.5
60°	8389.2	7213.0	2145.7	719.0	643.1	667.8	686.8	650.7	626.1	624.2	610.9
62.5°	9100.6	7508.9	1631.5	658.3	610.9	656.4	707.6	730.4	719.0	734.2	736.1
65°	9360.5	7330.6	1123.1	626.1	586.2	683.0	796.8	789.2	722.8	694.4	709.5
67.5°	8996.3	6607.8	832.8	588.1	569.1	738.0	848.0	753.2	652.6	648.8	637.4
70°	7736.6	5600.4	679.2	548.3	540.7	707.6	825.3	698.2	614.7	590.0	578.6
72°	6163.8	4361.5	595.7	519.8	495.2	631.8	772.1	654.5	582.4	552.1	538.8
72.5°	5626.9	4042.8	584.3	506.5	485.7	614.7	745.6	641.2	574.8	548.3	527.4
75°	3086.7	2069.8	514.1	464.8	409.8	531.2	690.6	601.4	542.6	504.6	500.8
77.5°	1147.8	802.5	443.9	411.7	354.8	459.1	628.0	571.0	493.3	445.8	436.3
80°	440.1	423.1	362.4	347.2	297.9	402.2	578.6	512.2	419.3	371.8	356.7
82.5°	267.5	246.6	275.1	271.3	227.7	366.1	544.5	480.0	371.8	301.6	292.2
85°	146.1	146.1	191.6	184.0	159.4	292.2	411.7	318.7	235.2	193.5	197.3
87.5°	64.5	75.9	102.4	96.8	87.3	165.1	201.1	168.8	117.6	79.7	85.4
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)