

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: P476773

Luminaire Tested: **IFLD-M-SA4B-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476773
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

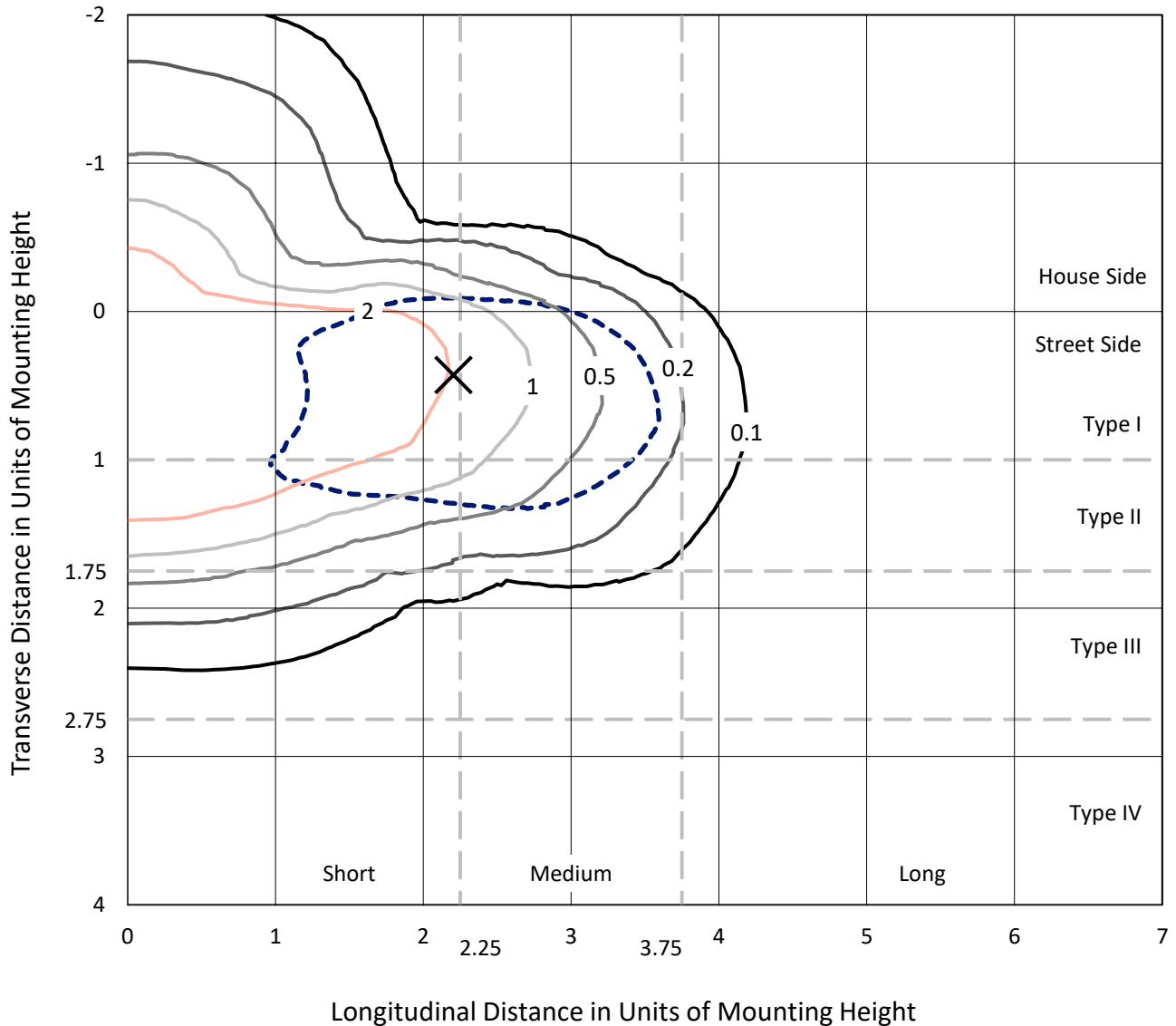
Lumens per Lamp: N/A
Luminaire Lumens: 18126.3 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 166.1
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

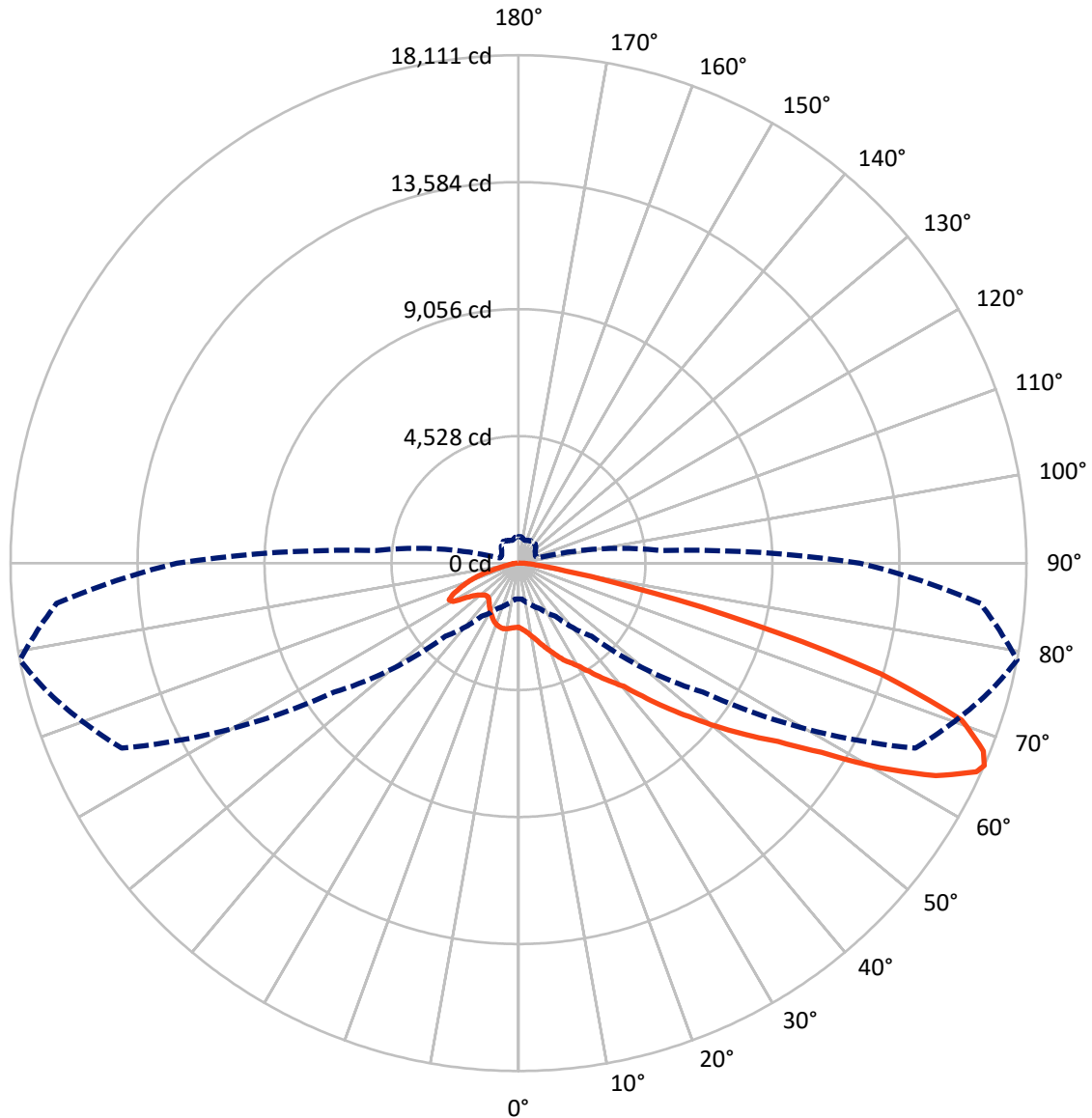
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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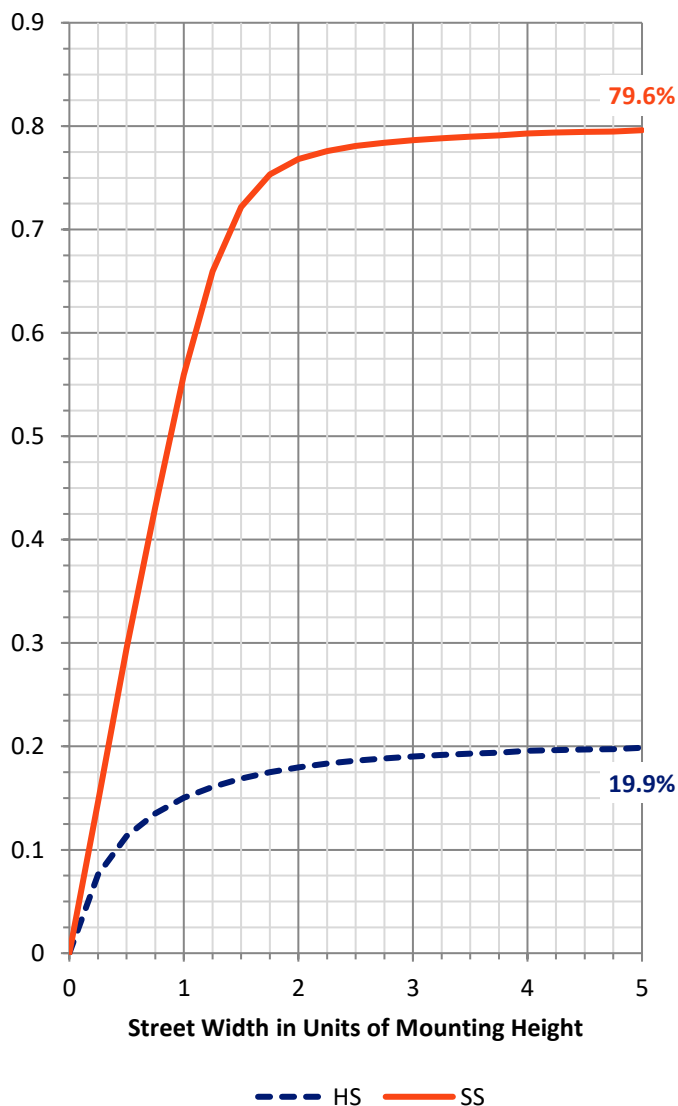
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3660.3	0.0	3660.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	14466.0	0.0	14466.0
	% Fixture	79.8	0.0	79.8
Total	Lumens	18126.3	0.0	18126.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.1	1.2
10°-20°	695.0	3.8
20°-30°	1193.0	6.6
30°-40°	1842.9	10.2
40°-50°	2951.8	16.3
50°-60°	4407.3	24.3
60°-70°	4528.5	25.0
70°-80°	2007.4	11.1
80°-90°	275.4	1.5
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°	18126.3	100.0
0°-180°	18126.3	100.0

Coefficient of Utilization

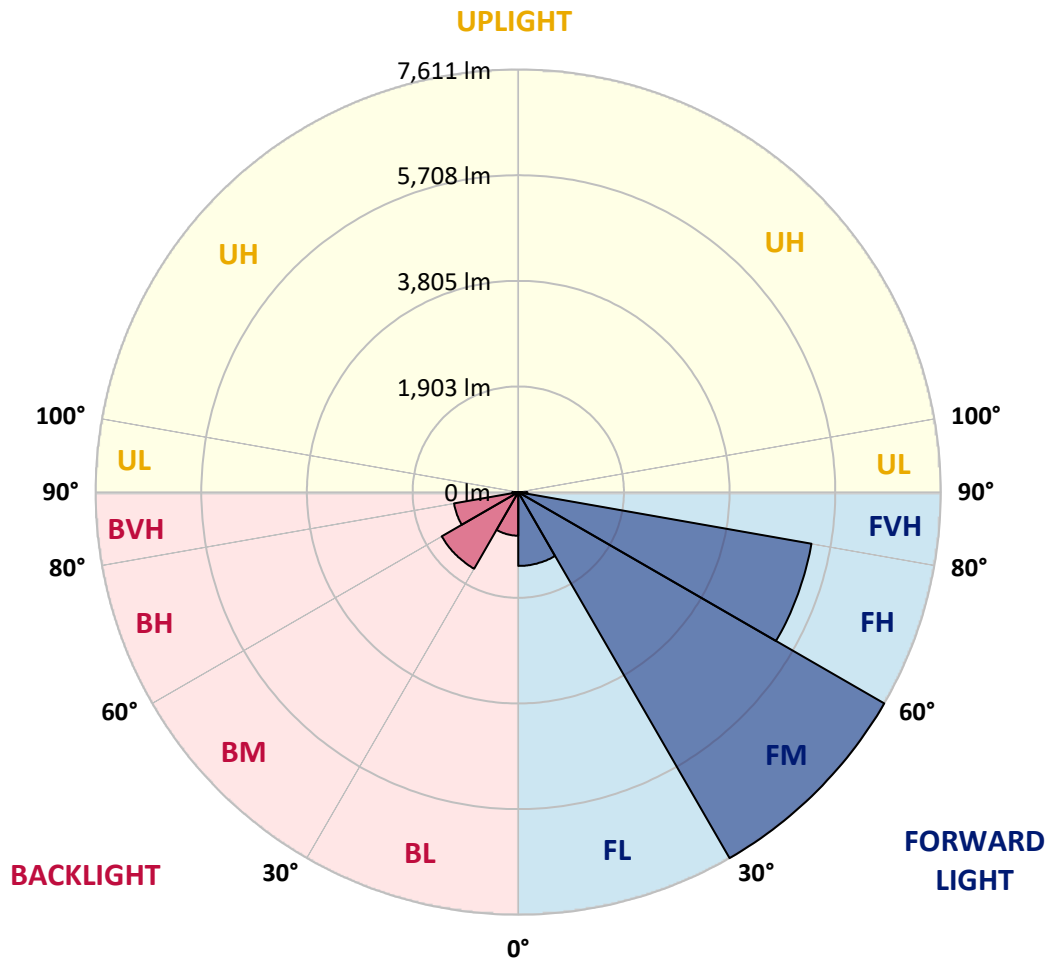


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1328.8	7.3			
FM (30°-60°)	7610.6	42.0			
FH (60°-80°)	5361.4	29.6			G3/7500
FVH (80°-90°)	165.2	0.9			G2/225
BL (0°-30°)	784.2	4.3	B2/1000		
BM (30°-60°)	1591.4	8.8	B2/2500		
BH (60°-80°)	1174.5	6.5	B3/2500		G3/2500
BVH (80°-90°)	110.2	0.6			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9
2.5°	2434.4	2436.4	2436.4	2428.4	2430.4	2436.4	2414.5	2366.6	2366.6	2358.6	2344.7
5°	2583.9	2574.0	2560.0	2562.0	2554.0	2554.0	2530.1	2484.2	2444.4	2428.4	2386.5
7.5°	2603.9	2613.8	2611.8	2635.8	2647.7	2647.7	2659.7	2621.8	2562.0	2524.1	2482.2
10°	2643.7	2617.8	2615.8	2671.7	2689.6	2731.5	2779.3	2759.4	2709.5	2655.7	2599.9
12.5°	2667.7	2683.6	2683.6	2711.5	2753.4	2815.2	2898.9	2936.8	2859.1	2803.2	2717.5
15°	2703.6	2681.6	2745.4	2769.4	2849.1	2893.0	3012.6	3110.3	3058.4	2990.7	2855.1
17.5°	2719.5	2705.5	2741.4	2785.3	2920.9	2986.7	3132.2	3267.8	3223.9	3180.1	3040.5
20°	2801.3	2799.3	2815.2	2851.1	2948.8	3078.4	3259.8	3447.2	3463.2	3383.4	3194.0
22.5°	3000.6	2974.7	2974.7	2960.8	3002.6	3136.2	3381.4	3640.6	3712.4	3618.7	3367.5
25°	3184.1	3219.9	3198.0	3134.2	3118.3	3188.0	3469.2	3846.0	3941.7	3854.0	3602.7
27.5°	3419.3	3431.3	3469.2	3383.4	3273.8	3295.7	3564.9	3961.6	4159.0	4041.4	3736.3
30°	3758.3	3736.3	3728.4	3632.7	3489.1	3459.2	3674.5	4131.1	4444.1	4278.6	3893.8
32.5°	3987.5	4041.4	4039.4	3907.8	3734.3	3668.5	3810.1	4290.6	4749.2	4595.6	4184.9
35°	4442.1	4498.0	4454.1	4260.7	4057.3	3925.7	4005.5	4498.0	5098.1	4978.5	4432.2
37.5°	5022.3	5153.9	5060.2	4703.3	4416.2	4272.7	4276.6	4723.2	5455.0	5357.3	4697.3
40°	5423.1	5600.5	5470.9	5136.0	4830.9	4695.3	4641.5	4990.4	5881.6	5778.0	5112.0
42.5°	5919.5	6067.1	5999.3	5668.3	5311.4	5195.8	5088.1	5437.0	6533.6	6485.7	5644.4
45°	6461.8	6531.6	6509.7	6300.3	5903.6	5863.7	5626.4	6025.2	7301.2	7321.1	6310.3
47.5°	6966.2	7004.1	7046.0	6894.5	6647.2	6681.1	6246.5	6655.2	8046.9	8178.5	7052.0
50°	7095.8	7225.4	7323.1	7424.8	7478.6	7707.9	6930.4	7428.8	8904.2	9159.4	7877.4
52.5°	6964.2	6954.3	7251.4	7570.4	8108.7	8589.2	7861.4	8389.8	9661.8	10166.2	8633.0
55°	6366.1	6346.2	6824.7	7247.4	8298.1	9079.6	9191.3	9669.8	10577.0	11232.9	9655.8
57.5°	5319.4	5195.8	5718.1	6412.0	7887.4	9133.5	10527.1	11569.9	11984.6	12732.2	11217.0
60°	3574.8	3523.0	4023.4	4850.8	6404.0	8369.9	11326.6	13948.4	13968.4	14809.7	13639.4
62.5°	2201.1	2211.1	2532.1	3152.2	4484.0	6635.3	10981.7	15848.5	15852.5	16695.9	15633.2
65°	1439.5	1445.5	1704.7	2047.6	2801.3	4499.9	9081.6	15998.0	17162.4	17946.0	16546.3
66°	1282.0	1284.0	1507.3	1786.4	2320.8	3682.5	8020.9	15609.2	17457.5	18111.4	16534.4
67.5°	1080.6	1106.5	1286.0	1501.3	1810.3	2645.7	6364.1	14484.8	17305.9	17880.2	16159.5
70°	845.4	859.3	1000.9	1220.2	1357.8	1531.2	3782.2	11807.1	15840.5	16771.6	14795.8
72.5°	677.9	689.8	797.5	990.9	1102.6	1008.8	2059.6	8567.2	12512.9	13505.8	11637.7
75°	572.2	574.2	626.0	779.6	907.2	757.6	1096.6	5498.8	8028.9	8491.5	7129.7
77.5°	462.6	470.5	506.4	594.1	729.7	596.1	654.0	3080.4	4031.4	4065.3	3295.7
80°	376.8	380.8	402.7	432.6	556.3	440.6	442.6	1503.3	1728.6	1688.7	1339.8
82.5°	297.1	301.1	327.0	321.0	408.7	315.0	275.1	723.7	795.5	779.6	616.1
85°	167.5	167.5	257.2	257.2	259.2	199.4	167.5	340.9	420.7	392.8	289.1
87.5°	53.8	55.8	77.8	81.7	129.6	89.7	81.7	127.6	199.4	175.5	103.7
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°	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9	2288.9
2.5°	2336.7	2304.8	2290.8	2245.0	2233.0	2203.1	2189.2	2171.2	2165.2	2139.3	2163.2
5°	2354.6	2344.7	2288.9	2231.0	2187.2	2167.2	2137.3	2097.4	2093.5	2057.6	2053.6
7.5°	2430.4	2396.5	2298.8	2237.0	2149.3	2099.4	2033.6	2013.7	1987.8	1975.8	2001.7
10°	2548.0	2462.3	2316.8	2161.2	2053.6	1993.8	1945.9	1932.0	1934.0	1926.0	1914.0
12.5°	2631.8	2550.0	2286.9	2097.4	1957.9	1900.1	1896.1	1910.0	1932.0	1922.0	1936.0
15°	2751.4	2597.9	2264.9	1991.8	1880.1	1864.2	1862.2	1904.1	1902.1	1902.1	1900.1
17.5°	2863.1	2645.7	2185.2	1900.1	1798.4	1810.3	1824.3	1822.3	1842.2	1850.2	1864.2
20°	3004.6	2701.6	2073.5	1808.4	1736.6	1732.6	1730.6	1732.6	1752.5	1764.5	1754.5
22.5°	3128.2	2713.5	1979.8	1720.6	1662.8	1646.9	1620.9	1646.9	1636.9	1640.9	1652.8
25°	3235.9	2715.5	1846.2	1654.8	1589.0	1553.1	1533.2	1531.2	1513.3	1511.3	1511.3
27.5°	3325.6	2647.7	1728.6	1563.1	1501.3	1467.4	1465.4	1443.5	1397.6	1367.7	1371.7
30°	3395.4	2595.9	1646.9	1483.4	1423.6	1417.6	1399.6	1349.8	1290.0	1252.1	1252.1
32.5°	3519.0	2492.2	1535.2	1401.6	1371.7	1363.7	1321.9	1278.0	1222.2	1186.3	1180.3
35°	3610.7	2396.5	1461.4	1331.8	1317.9	1301.9	1266.0	1218.2	1202.2	1194.3	1200.3
37.5°	3714.4	2288.9	1371.7	1272.0	1286.0	1256.1	1214.2	1192.3	1248.1	1234.1	1240.1
40°	3879.9	2213.1	1284.0	1236.1	1250.1	1216.2	1162.4	1154.4	1224.2	1174.3	1162.4
42.5°	4182.9	2211.1	1230.2	1182.3	1192.3	1166.4	1118.5	1114.5	1142.4	1082.6	1064.7
45°	4559.8	2280.9	1190.3	1142.4	1134.5	1130.5	1114.5	1096.6	1072.6	994.9	975.0
47.5°	5010.4	2394.5	1182.3	1082.6	1092.6	1126.5	1106.5	1060.7	998.9	949.0	939.1
50°	5556.6	2629.8	1162.4	1038.8	1056.7	1110.5	1094.6	1030.8	975.0	943.1	937.1
52.5°	6160.8	2926.9	1136.5	971.0	1010.8	1096.6	1104.6	1044.7	963.0	935.1	931.1
55°	6872.5	3365.5	1106.5	897.2	957.0	1082.6	1104.6	1004.9	947.0	947.0	943.1
57.5°	8278.1	4155.0	1044.7	829.4	909.2	1056.7	1072.6	1006.9	949.0	949.0	941.1
60°	10339.7	5387.2	927.1	777.6	863.3	1020.8	1048.7	976.9	927.1	939.1	937.1
62.5°	11952.7	5762.0	827.4	727.7	817.4	955.0	1016.8	945.0	901.2	945.0	949.0
65°	12297.6	5383.2	725.7	673.9	753.6	891.2	971.0	899.2	863.3	949.0	953.0
66°	12174.0	5088.1	689.8	657.9	725.7	859.3	943.1	883.2	843.4	945.0	947.0
67.5°	11623.7	4645.5	650.0	624.1	687.9	813.5	911.2	861.3	811.5	933.1	915.1
70°	10427.4	3939.7	582.2	564.2	634.0	737.7	837.4	805.5	761.6	859.3	827.4
72.5°	8030.9	3148.2	510.4	512.4	572.2	659.9	763.6	741.7	703.8	753.6	733.7
75°	4890.7	2011.7	444.6	448.6	498.4	586.2	693.8	677.9	632.0	659.9	650.0
77.5°	2167.2	996.9	374.8	382.8	422.7	516.4	604.1	578.2	530.3	536.3	532.3
80°	841.4	472.5	305.0	315.0	340.9	412.7	500.4	476.5	434.6	426.7	422.7
82.5°	404.7	263.2	235.3	239.3	249.2	329.0	430.7	400.7	344.9	309.0	309.0
85°	203.4	163.5	165.5	151.5	165.5	223.3	291.1	243.2	201.4	179.4	183.4
87.5°	81.7	81.7	81.7	69.8	73.8	105.7	135.6	91.7	83.7	49.8	49.8
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)