

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: P476616

Luminaire Tested: **IFLD-M-SA4A-740-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476616
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-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

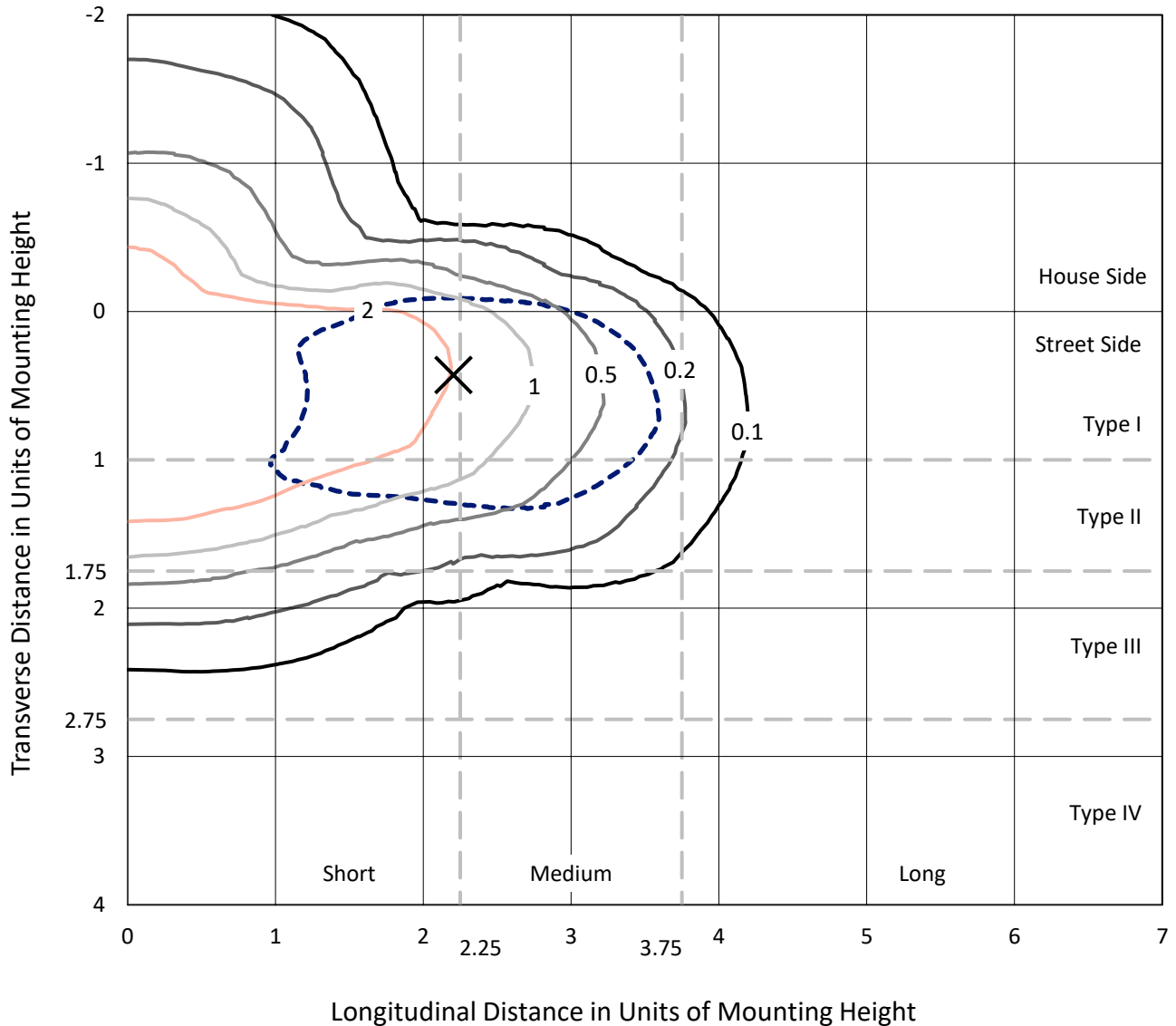
Lumens per Lamp: N/A
Luminaire Lumens: 18445.1 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

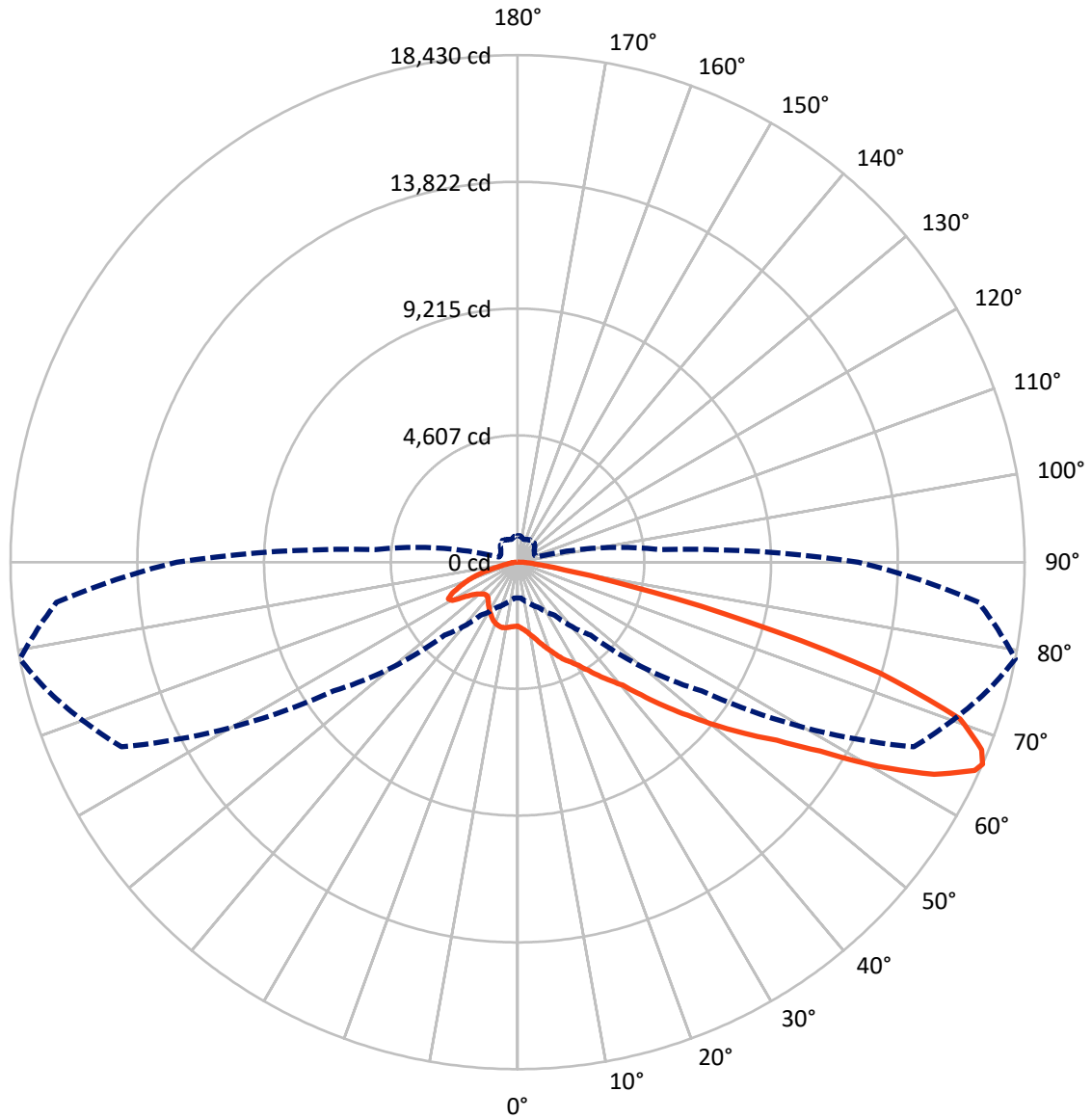
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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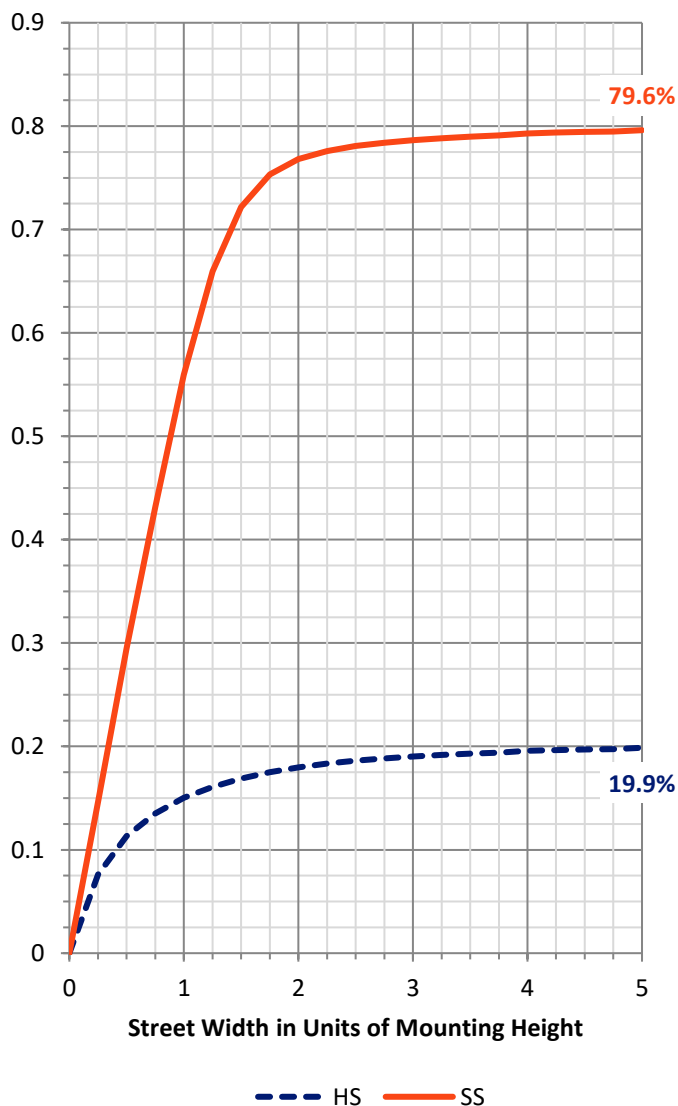
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3724.7	0.0	3724.7
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	14720.3	0.0	14720.3
	% Fixture	79.8	0.0	79.8
Total	Lumens	18445.1	0.0	18445.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	1.2
10°-20°	707.2	3.8
20°-30°	1213.9	6.6
30°-40°	1875.3	10.2
40°-50°	3003.7	16.3
50°-60°	4484.8	24.3
60°-70°	4608.1	25.0
70°-80°	2042.7	11.1
80°-90°	280.3	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°	18445.1	100.0
0°-180°	18445.1	100.0

Coefficient of Utilization



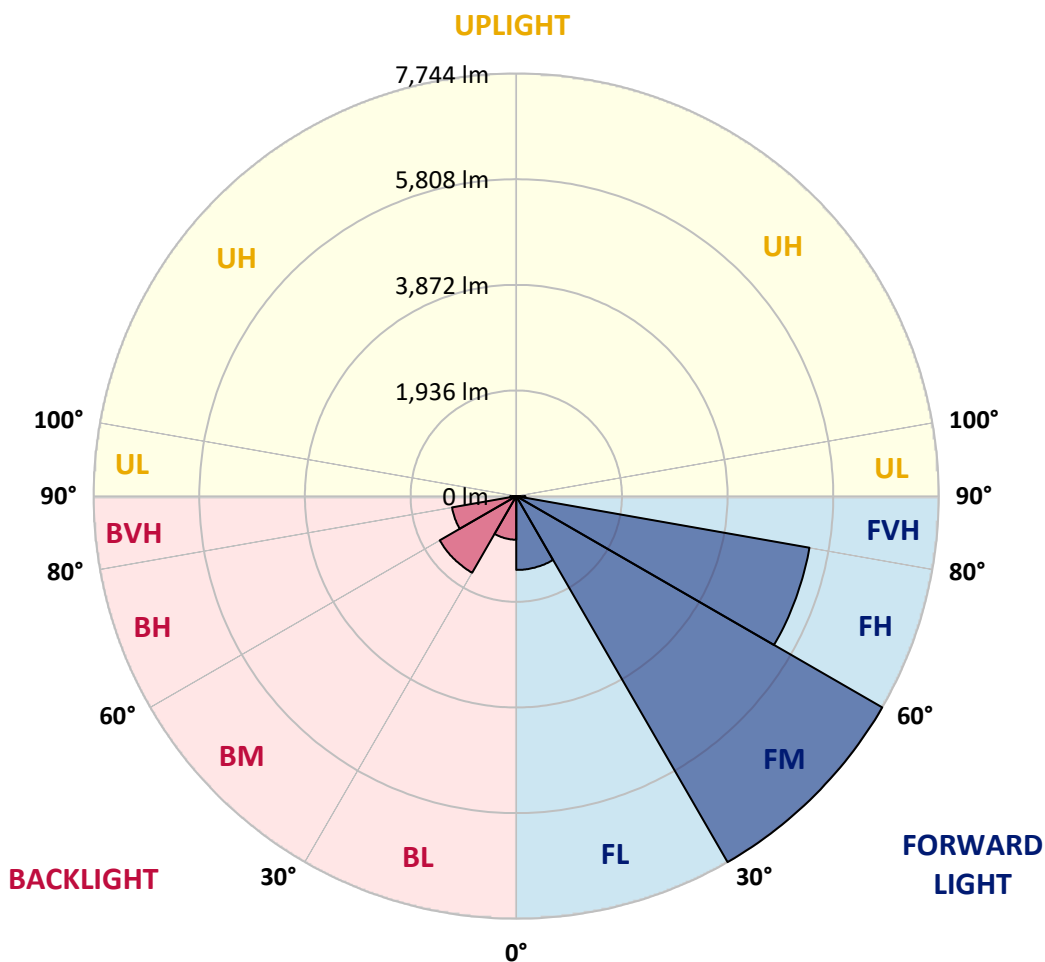
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1352.1	7.3			
FM (30°-60°)	7744.5	42.0			
FH (60°-80°)	5455.6	29.6			G3/7500
FVH (80°-90°)	168.1	0.9			G2/225
BL (0°-30°)	798.0	4.3	B2/1000		
BM (30°-60°)	1619.3	8.8	B2/2500		
BH (60°-80°)	1195.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	112.2	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°	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1
2.5°	2477.2	2479.2	2479.2	2471.1	2473.1	2479.2	2456.9	2408.2	2408.2	2400.1	2385.9
5°	2629.4	2619.2	2605.0	2607.1	2598.9	2598.9	2574.6	2527.9	2487.4	2471.1	2428.5
7.5°	2649.7	2659.8	2657.8	2682.1	2694.3	2694.3	2706.5	2667.9	2607.1	2568.5	2525.9
10°	2690.2	2663.9	2661.8	2718.6	2736.9	2779.5	2828.2	2807.9	2757.2	2702.4	2645.6
12.5°	2714.6	2730.8	2730.8	2759.2	2801.8	2864.7	2949.9	2988.5	2909.3	2852.5	2765.3
15°	2751.1	2728.8	2793.7	2818.1	2899.2	2943.8	3065.6	3165.0	3112.2	3043.3	2905.3
17.5°	2767.3	2753.1	2789.6	2834.3	2972.2	3039.2	3187.3	3325.3	3280.6	3236.0	3094.0
20°	2850.5	2848.5	2864.7	2901.2	3000.6	3132.5	3317.1	3507.9	3524.1	3442.9	3250.2
22.5°	3053.4	3027.0	3027.0	3012.8	3055.4	3191.4	3440.9	3704.7	3777.7	3682.3	3426.7
25°	3240.0	3276.6	3254.3	3189.3	3173.1	3244.1	3530.2	3913.6	4011.0	3921.7	3666.1
27.5°	3479.5	3491.6	3530.2	3442.9	3331.3	3353.7	3627.6	4031.3	4232.1	4112.4	3802.0
30°	3824.4	3802.0	3793.9	3696.5	3550.5	3520.0	3739.1	4203.7	4522.3	4353.9	3962.3
32.5°	4057.7	4112.4	4110.4	3976.5	3800.0	3733.1	3877.1	4366.1	4832.7	4676.5	4258.5
35°	4520.2	4577.1	4532.4	4335.6	4128.7	3994.8	4075.9	4577.1	5187.7	5066.0	4510.1
37.5°	5110.6	5244.5	5149.2	4786.0	4493.9	4347.8	4351.8	4806.3	5550.9	5451.5	4779.9
40°	5518.4	5699.0	5567.1	5226.3	4915.9	4777.9	4723.1	5078.2	5985.1	5879.6	5201.9
42.5°	6023.6	6173.7	6104.8	5768.0	5404.8	5287.1	5177.6	5532.6	6648.5	6599.8	5743.6
45°	6575.5	6646.5	6624.1	6411.1	6007.4	5966.8	5725.4	6131.1	7429.6	7449.9	6421.3
47.5°	7088.7	7127.3	7169.9	7015.7	6764.1	6798.6	6356.3	6772.2	8188.4	8322.3	7176.0
50°	7220.6	7352.5	7451.9	7555.4	7610.2	7843.5	7052.2	7559.4	9060.8	9320.5	8015.9
52.5°	7086.7	7076.6	7378.9	7703.5	8251.3	8740.2	7999.7	8537.3	9831.7	10345.0	8784.9
55°	6478.1	6457.8	6944.7	7374.8	8444.0	9239.3	9352.9	9839.8	10763.0	11430.5	9825.6
57.5°	5412.9	5287.1	5818.7	6524.7	8026.1	9294.1	10712.2	11773.3	12195.3	12956.1	11414.2
60°	3637.7	3585.0	4094.2	4936.2	6516.6	8517.0	11525.8	14193.7	14214.0	15070.2	13879.3
62.5°	2239.8	2250.0	2576.6	3207.6	4562.8	6752.0	11174.8	16127.2	16131.3	16989.5	15908.1
65°	1464.8	1470.9	1734.7	2083.6	2850.5	4579.1	9241.3	16279.4	17464.2	18261.5	16837.3
66°	1304.5	1306.6	1533.8	1817.8	2361.6	3747.3	8162.0	15883.7	17764.5	18429.9	16825.1
67.5°	1099.6	1126.0	1308.6	1527.7	1842.2	2692.3	6476.0	14739.5	17610.3	18194.6	16443.7
70°	860.2	874.4	1018.5	1241.6	1381.6	1558.1	3848.7	12014.8	16119.1	17066.6	15056.0
72.5°	689.8	702.0	811.5	1008.3	1121.9	1026.6	2095.8	8717.9	12733.0	13743.3	11842.3
75°	582.3	584.3	637.1	793.3	923.1	771.0	1115.9	5595.5	8170.1	8640.8	7255.1
77.5°	470.7	478.8	515.3	604.6	742.6	606.6	665.5	3134.5	4102.3	4136.8	3353.7
80°	383.4	387.5	409.8	440.3	566.0	448.4	450.4	1529.7	1759.0	1718.4	1363.4
82.5°	302.3	306.4	332.7	326.6	415.9	320.6	280.0	736.5	809.5	793.3	626.9
85°	170.4	170.4	261.7	261.7	263.7	202.9	170.4	346.9	428.1	399.7	294.2
87.5°	54.8	56.8	79.1	83.2	131.9	91.3	83.2	129.8	202.9	178.5	105.5
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°	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1	2329.1
2.5°	2377.8	2345.3	2331.1	2284.5	2272.3	2241.9	2227.7	2209.4	2203.3	2176.9	2201.3
5°	2396.1	2385.9	2329.1	2270.3	2225.6	2205.3	2174.9	2134.3	2130.3	2093.8	2089.7
7.5°	2473.1	2438.7	2339.2	2276.4	2187.1	2136.4	2069.4	2049.1	2022.7	2010.6	2036.9
10°	2592.9	2505.6	2357.5	2199.3	2089.7	2028.8	1980.1	1965.9	1968.0	1959.9	1947.7
12.5°	2678.1	2594.9	2327.1	2134.3	1992.3	1933.5	1929.4	1943.6	1965.9	1955.8	1970.0
15°	2799.8	2643.6	2304.8	2026.8	1913.2	1897.0	1894.9	1937.5	1935.5	1935.5	1933.5
17.5°	2913.4	2692.3	2223.6	1933.5	1830.0	1842.2	1856.4	1854.4	1874.6	1882.8	1897.0
20°	3057.5	2749.1	2110.0	1840.2	1767.1	1763.1	1761.0	1763.1	1783.3	1795.5	1785.4
22.5°	3183.2	2761.2	2014.6	1750.9	1692.0	1675.8	1649.4	1675.8	1665.7	1669.7	1681.9
25°	3292.8	2763.3	1878.7	1683.9	1617.0	1580.5	1560.2	1558.1	1539.9	1537.9	1537.9
27.5°	3384.1	2694.3	1759.0	1590.6	1527.7	1493.2	1491.2	1468.9	1422.2	1391.8	1395.8
30°	3455.1	2641.5	1675.8	1509.5	1448.6	1442.5	1424.2	1373.5	1312.7	1274.1	1274.1
32.5°	3580.9	2536.0	1562.2	1426.3	1395.8	1387.7	1345.1	1300.5	1243.7	1207.2	1201.1
35°	3674.2	2438.7	1487.1	1355.3	1341.1	1324.8	1288.3	1239.6	1223.4	1215.3	1221.4
37.5°	3779.7	2329.1	1395.8	1294.4	1308.6	1278.2	1235.6	1213.2	1270.1	1255.8	1261.9
40°	3948.1	2252.0	1306.6	1257.9	1272.1	1237.6	1182.8	1174.7	1245.7	1195.0	1182.8
42.5°	4256.5	2250.0	1251.8	1203.1	1213.2	1186.9	1138.2	1134.1	1162.5	1101.7	1083.4
45°	4639.9	2321.0	1211.2	1162.5	1154.4	1150.3	1134.1	1115.9	1091.5	1012.4	992.1
47.5°	5098.5	2436.6	1203.1	1101.7	1111.8	1146.3	1126.0	1079.3	1016.4	965.7	955.6
50°	5654.4	2676.0	1182.8	1057.0	1075.3	1130.1	1113.8	1048.9	992.1	959.6	953.6
52.5°	6269.1	2978.3	1156.4	988.0	1028.6	1115.9	1124.0	1063.1	979.9	951.5	947.5
55°	6993.4	3424.7	1126.0	913.0	973.8	1101.7	1124.0	1022.5	963.7	963.7	959.6
57.5°	8423.7	4228.1	1063.1	844.0	925.1	1075.3	1091.5	1024.6	965.7	965.7	957.6
60°	10521.5	5481.9	943.4	791.2	878.5	1038.8	1067.2	994.1	943.4	955.6	953.6
62.5°	12162.9	5863.3	842.0	740.5	831.8	971.8	1034.7	961.7	917.0	961.7	965.7
65°	12513.9	5477.9	738.5	685.7	766.9	906.9	988.0	915.0	878.5	965.7	969.8
66°	12388.1	5177.6	702.0	669.5	738.5	874.4	959.6	898.8	858.2	961.7	963.7
67.5°	11828.1	4727.2	661.4	635.0	699.9	827.8	927.2	876.5	825.7	949.5	931.2
70°	10610.8	4009.0	592.4	574.2	645.2	750.7	852.1	819.6	775.0	874.4	842.0
72.5°	8172.1	3203.5	519.4	521.4	582.3	671.5	777.0	754.7	716.2	766.9	746.6
75°	4976.7	2047.1	452.4	456.5	507.2	596.5	706.0	689.8	643.1	671.5	661.4
77.5°	2205.3	1014.4	381.4	389.5	430.1	525.5	614.7	588.4	539.7	545.8	541.7
80°	856.2	480.8	310.4	320.6	346.9	420.0	509.2	484.9	442.3	434.2	430.1
82.5°	411.9	267.8	239.4	243.5	253.6	334.8	438.2	407.8	351.0	314.5	314.5
85°	206.9	166.4	168.4	154.2	168.4	227.2	296.2	247.5	204.9	182.6	186.7
87.5°	83.2	83.2	83.2	71.0	75.1	107.5	138.0	93.3	85.2	50.7	50.7
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)