

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: P476655

Luminaire Tested: **IFLD-M-SA4A-750-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476655
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

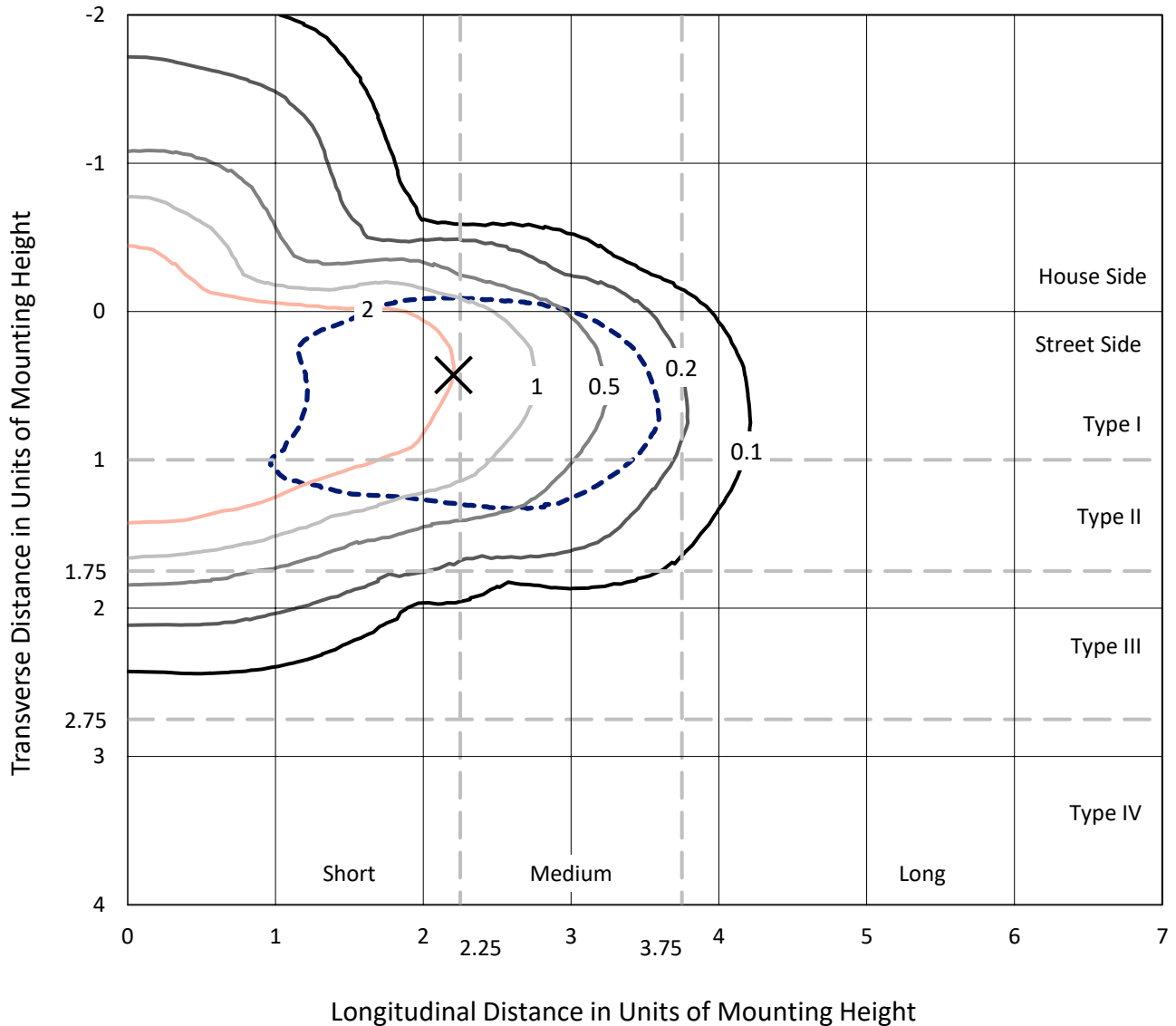
Lumens per Lamp: N/A
Luminaire Lumens: 18867.5 lumens
Efficiency: N/A
Efficacy: 146.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

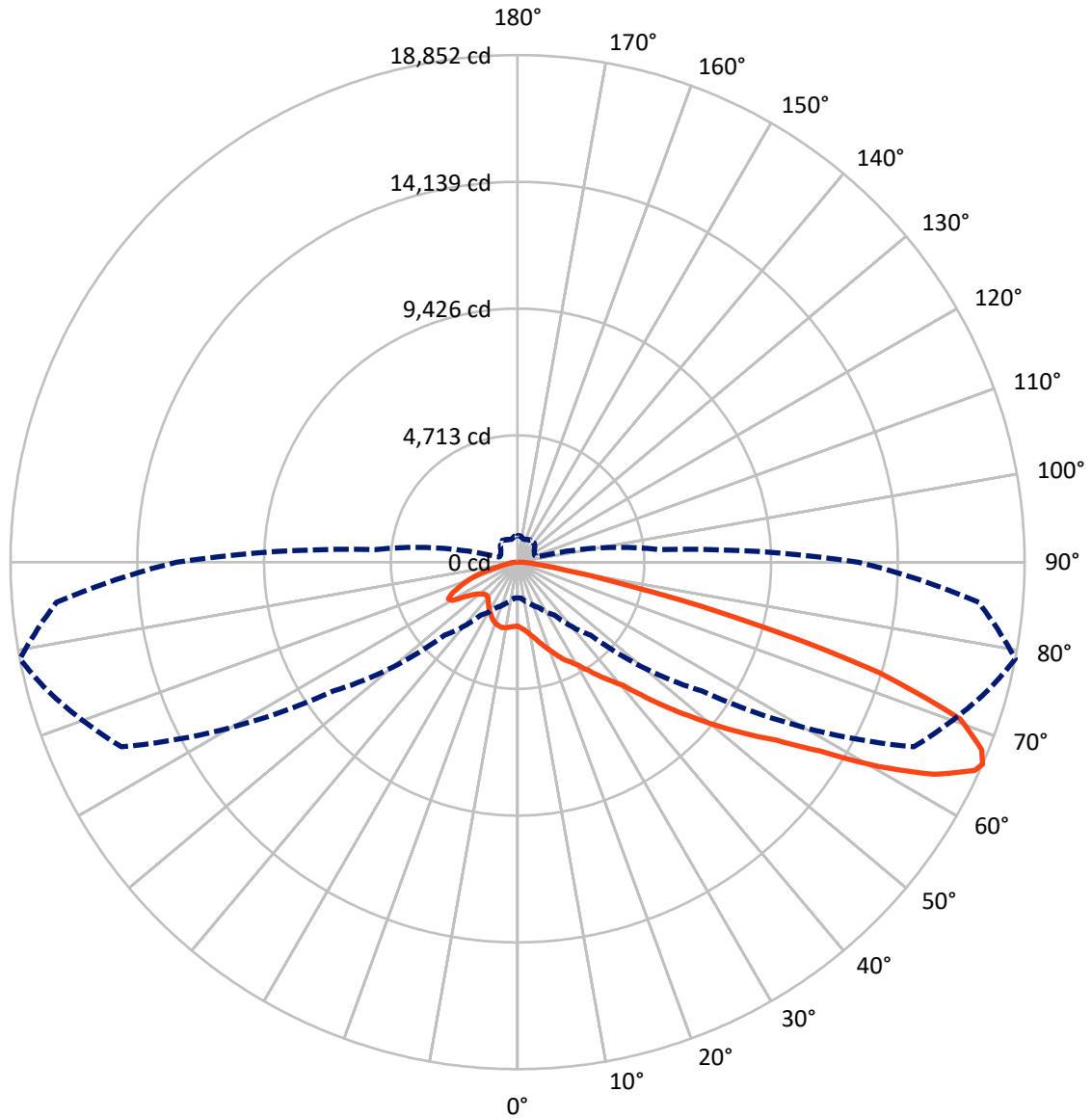
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	3810.0	0.0	3810.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	15057.4	0.0	15057.4
	% Fixture	79.8	0.0	79.8
Total	Lumens	18867.5	0.0	18867.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	1.2
10°-20°	723.4	3.8
20°-30°	1241.7	6.6
30°-40°	1918.2	10.2
40°-50°	3072.5	16.3
50°-60°	4587.5	24.3
60°-70°	4713.6	25.0
70°-80°	2089.5	11.1
80°-90°	286.7	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°	18867.5	100.0
0°-180°	18867.5	100.0



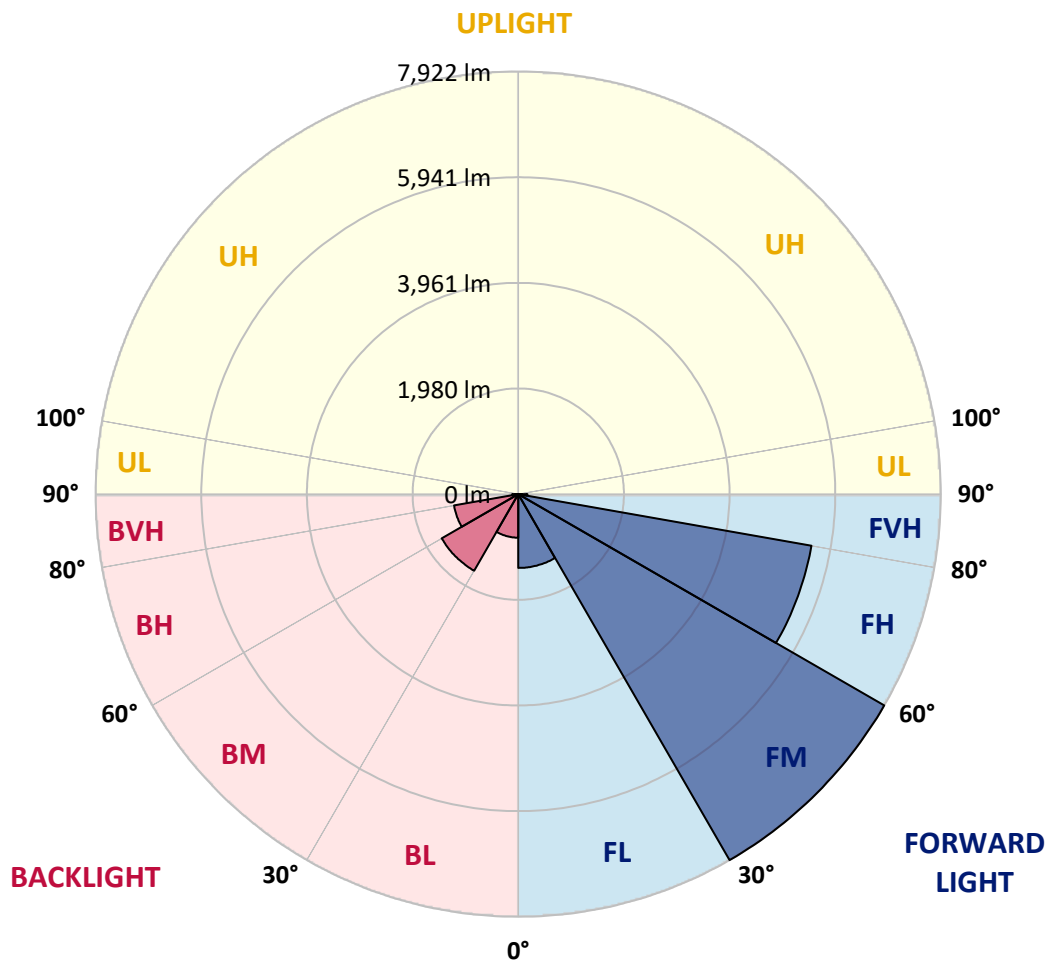
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.1	7.3			
FM (30°-60°)	7921.8	42.0			
FH (60°-80°)	5580.6	29.6			G3/7500
FVH (80°-90°)	171.9	0.9			G2/225
BL (0°-30°)	816.3	4.3	B2/1000		
BM (30°-60°)	1656.4	8.8	B2/2500		
BH (60°-80°)	1222.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	114.7	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°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2533.9	2536.0	2536.0	2527.7	2529.8	2536.0	2513.2	2463.4	2463.4	2455.1	2440.5
5°	2689.6	2679.2	2664.7	2666.8	2658.5	2658.5	2633.5	2585.8	2544.3	2527.7	2484.1
7.5°	2710.3	2720.7	2718.6	2743.5	2756.0	2756.0	2768.4	2729.0	2666.8	2627.3	2583.7
10°	2751.8	2724.9	2722.8	2780.9	2799.6	2843.2	2893.0	2872.2	2820.3	2764.3	2706.2
12.5°	2776.7	2793.3	2793.3	2822.4	2866.0	2930.3	3017.5	3056.9	2976.0	2917.9	2828.6
15°	2814.1	2791.3	2857.7	2882.6	2965.6	3011.3	3135.8	3237.5	3183.5	3112.9	2971.8
17.5°	2830.7	2816.2	2853.5	2899.2	3040.3	3108.8	3260.3	3401.4	3355.8	3310.1	3164.8
20°	2915.8	2913.7	2930.3	2967.7	3069.4	3204.3	3393.1	3588.2	3604.8	3521.8	3324.6
22.5°	3123.3	3096.3	3096.3	3081.8	3125.4	3264.4	3519.7	3789.5	3864.2	3766.7	3505.2
25°	3314.2	3351.6	3328.8	3262.4	3245.8	3318.4	3611.0	4003.2	4102.9	4011.5	3750.1
27.5°	3559.1	3571.6	3611.0	3521.8	3407.6	3430.5	3710.6	4123.6	4329.1	4206.6	3889.1
30°	3911.9	3889.1	3880.8	3781.2	3631.8	3600.6	3824.8	4300.0	4625.8	4453.6	4053.1
32.5°	4150.6	4206.6	4204.5	4067.6	3887.0	3818.5	3965.9	4466.0	4943.4	4783.6	4356.0
35°	4623.8	4681.9	4636.2	4434.9	4223.2	4086.3	4169.3	4681.9	5306.5	5182.0	4613.4
37.5°	5227.7	5364.6	5267.1	4895.6	4596.8	4447.4	4451.5	4916.4	5678.0	5576.3	4889.4
40°	5644.8	5829.5	5694.6	5346.0	5028.4	4887.3	4831.3	5194.5	6122.1	6014.2	5321.1
42.5°	6161.5	6315.1	6244.6	5900.1	5528.6	5408.2	5296.2	5659.3	6800.7	6750.9	5875.2
45°	6726.0	6798.7	6775.8	6557.9	6144.9	6103.4	5856.5	6271.5	7599.7	7620.5	6568.3
47.5°	7251.1	7290.5	7334.1	7176.4	6919.0	6954.3	6501.9	6927.3	8375.9	8512.9	7340.3
50°	7386.0	7520.9	7622.6	7728.4	7784.4	8023.1	7213.7	7732.5	9268.3	9533.9	8199.5
52.5°	7249.0	7238.6	7547.8	7879.9	8440.2	8940.4	8182.9	8732.8	10056.9	10581.9	8986.0
55°	6626.4	6605.7	7103.7	7543.7	8637.4	9450.9	9567.1	10065.2	11009.4	11692.2	10050.7
57.5°	5536.9	5408.2	5951.9	6674.1	8209.9	9506.9	10957.6	12042.9	12474.6	13252.8	11675.6
60°	3721.0	3667.0	4187.9	5049.2	6665.8	8712.1	11789.7	14518.8	14539.5	15415.3	14197.1
62.5°	2291.1	2301.5	2635.6	3281.0	4667.3	6906.6	11430.7	16496.5	16500.7	17378.5	16272.4
65°	1498.4	1504.6	1774.4	2131.3	2915.8	4683.9	9453.0	16652.2	17864.1	18679.7	17222.9
66°	1334.4	1336.5	1568.9	1859.5	2415.6	3833.1	8348.9	16247.5	18171.3	18852.0	17210.4
67.5°	1124.8	1151.8	1338.6	1562.7	1884.4	2753.9	6624.3	15077.0	18013.6	18611.2	16820.3
70°	879.9	894.5	1041.8	1270.1	1413.3	1593.8	3936.8	12289.9	16488.2	17457.4	15400.8
72.5°	705.6	718.1	830.1	1031.4	1147.6	1050.1	2143.8	8917.5	13024.5	14058.0	12113.5
75°	595.6	597.7	651.6	811.4	944.3	788.6	1141.4	5723.7	8357.2	8838.7	7421.3
77.5°	481.5	489.8	527.1	618.4	759.6	620.5	680.7	3206.3	4196.2	4231.5	3430.5
80°	392.2	396.4	419.2	450.3	579.0	458.6	460.7	1564.8	1799.3	1757.8	1394.6
82.5°	309.2	313.4	340.3	334.1	425.4	327.9	286.4	753.3	828.0	811.4	641.3
85°	174.3	174.3	267.7	267.7	269.8	207.5	174.3	354.9	437.9	408.8	300.9
87.5°	56.0	58.1	80.9	85.1	134.9	93.4	85.1	132.8	207.5	182.6	107.9
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°	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4	2382.4
2.5°	2432.2	2399.0	2384.5	2336.8	2324.3	2293.2	2278.7	2260.0	2253.8	2226.8	2251.7
5°	2450.9	2440.5	2382.4	2322.3	2276.6	2255.8	2224.7	2183.2	2179.1	2141.7	2137.6
7.5°	2529.8	2494.5	2392.8	2328.5	2237.2	2185.3	2116.8	2096.0	2069.1	2056.6	2083.6
10°	2652.2	2563.0	2411.5	2249.6	2137.6	2075.3	2025.5	2011.0	2013.0	2004.7	1992.3
12.5°	2739.4	2654.3	2380.4	2183.2	2037.9	1977.8	1973.6	1988.1	2011.0	2000.6	2015.1
15°	2863.9	2704.1	2357.5	2073.2	1957.0	1940.4	1938.3	1981.9	1979.8	1979.8	1977.8
17.5°	2980.1	2753.9	2274.5	1977.8	1871.9	1884.4	1898.9	1896.8	1917.6	1925.9	1940.4
20°	3127.5	2812.0	2158.3	1882.3	1807.6	1803.4	1801.4	1803.4	1824.2	1836.6	1826.3
22.5°	3256.1	2824.5	2060.8	1791.0	1730.8	1714.2	1687.2	1714.2	1703.8	1708.0	1720.4
25°	3368.2	2826.6	1921.7	1722.5	1654.0	1616.7	1595.9	1593.8	1575.1	1573.1	1573.1
27.5°	3461.6	2756.0	1799.3	1627.0	1562.7	1527.4	1525.3	1502.5	1454.8	1423.7	1427.8
30°	3534.2	2702.0	1714.2	1544.0	1481.8	1475.5	1456.9	1405.0	1342.7	1303.3	1303.3
32.5°	3662.9	2594.1	1598.0	1458.9	1427.8	1419.5	1375.9	1330.3	1272.2	1234.8	1228.6
35°	3758.4	2494.5	1521.2	1386.3	1371.8	1355.2	1317.8	1268.0	1251.4	1243.1	1249.3
37.5°	3866.3	2382.4	1427.8	1324.0	1338.6	1307.4	1263.9	1241.0	1299.1	1284.6	1290.8
40°	4038.5	2303.6	1336.5	1286.7	1301.2	1265.9	1209.9	1201.6	1274.2	1222.3	1209.9
42.5°	4354.0	2301.5	1280.5	1230.6	1241.0	1214.0	1164.2	1160.1	1189.1	1126.9	1108.2
45°	4746.2	2374.1	1239.0	1189.1	1180.8	1176.7	1160.1	1141.4	1116.5	1035.6	1014.8
47.5°	5215.2	2492.4	1230.6	1126.9	1137.3	1172.5	1151.8	1104.1	1039.7	987.8	977.5
50°	5783.8	2737.3	1209.9	1081.2	1099.9	1155.9	1139.3	1072.9	1014.8	981.6	975.4
52.5°	6412.7	3046.5	1182.9	1010.7	1052.2	1141.4	1149.7	1087.5	1002.4	973.3	969.2
55°	7153.5	3503.1	1151.8	933.9	996.1	1126.9	1149.7	1045.9	985.8	985.8	981.6
57.5°	8616.6	4324.9	1087.5	863.3	946.3	1099.9	1116.5	1048.0	987.8	987.8	979.5
60°	10762.5	5607.4	965.0	809.4	898.6	1062.6	1091.6	1016.9	965.0	977.5	975.4
62.5°	12441.4	5997.6	861.2	757.5	850.9	994.1	1058.4	983.7	938.0	983.7	987.8
65°	12800.4	5603.3	755.4	701.4	784.5	927.7	1010.7	936.0	898.6	987.8	992.0
66°	12671.7	5296.2	718.1	684.8	755.4	894.5	981.6	919.4	877.8	983.7	985.8
67.5°	12099.0	4835.4	676.5	649.6	716.0	846.7	948.4	896.5	844.6	971.2	952.6
70°	10853.8	4100.8	606.0	587.3	659.9	767.9	871.6	838.4	792.8	894.5	861.2
72.5°	8359.3	3276.9	531.3	533.4	595.6	686.9	794.8	772.0	732.6	784.5	763.7
75°	5090.7	2094.0	462.8	466.9	518.8	610.1	722.2	705.6	657.9	686.9	676.5
77.5°	2255.8	1037.6	390.2	398.5	440.0	537.5	628.8	601.8	552.0	558.3	554.1
80°	875.8	491.8	317.5	327.9	354.9	429.6	520.9	496.0	452.4	444.1	440.0
82.5°	421.3	273.9	244.9	249.0	259.4	342.4	448.3	417.1	359.0	321.7	321.7
85°	211.7	170.2	172.2	157.7	172.2	232.4	303.0	253.2	209.6	186.8	190.9
87.5°	85.1	85.1	85.1	72.6	76.8	110.0	141.1	95.5	87.2	51.9	51.9
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)