

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: P476854

Luminaire Tested: **IFLD-M-SA4E-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476854
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

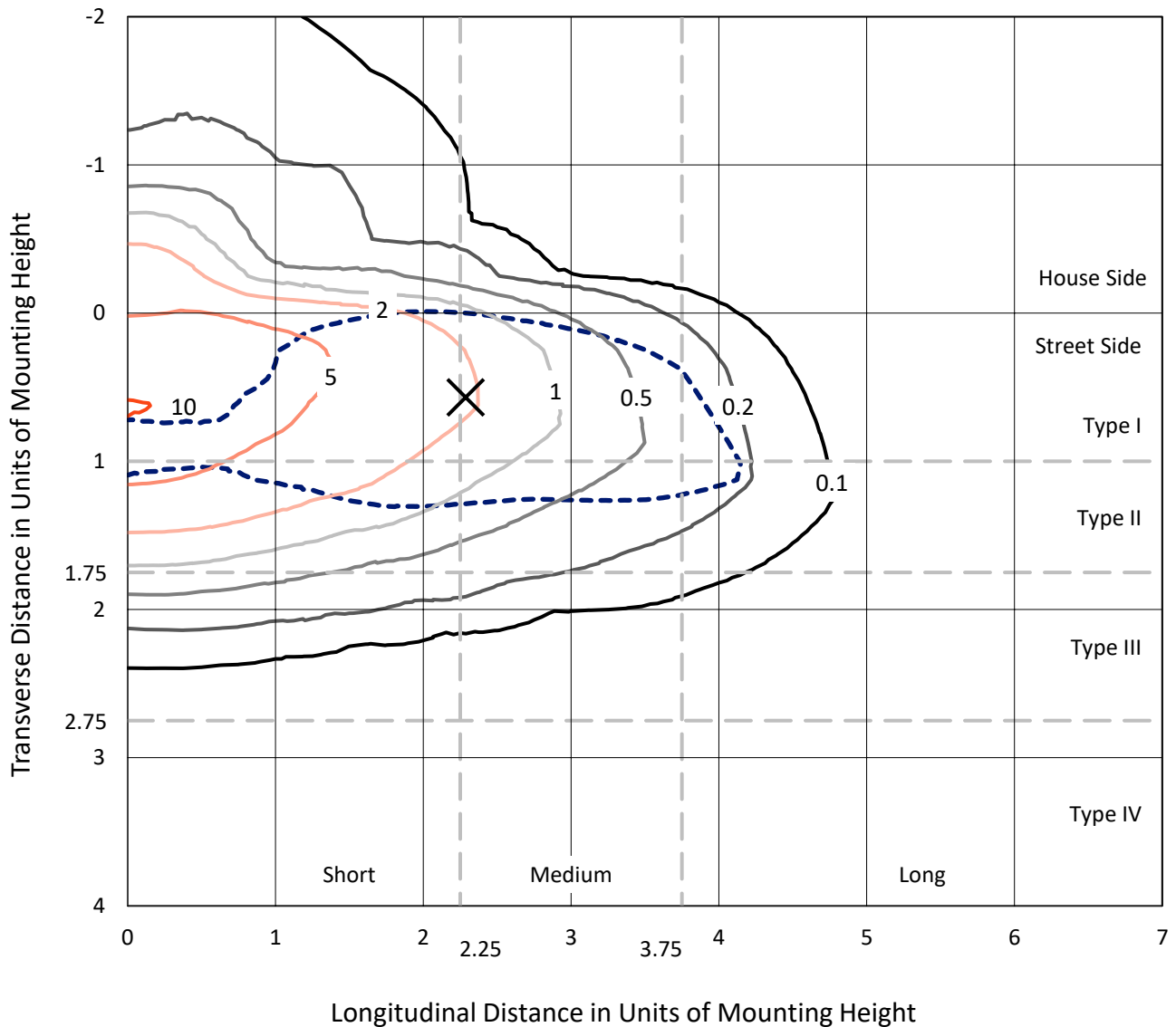
Lumens per Lamp: N/A
Luminaire Lumens: 26818.2 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 314.8
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

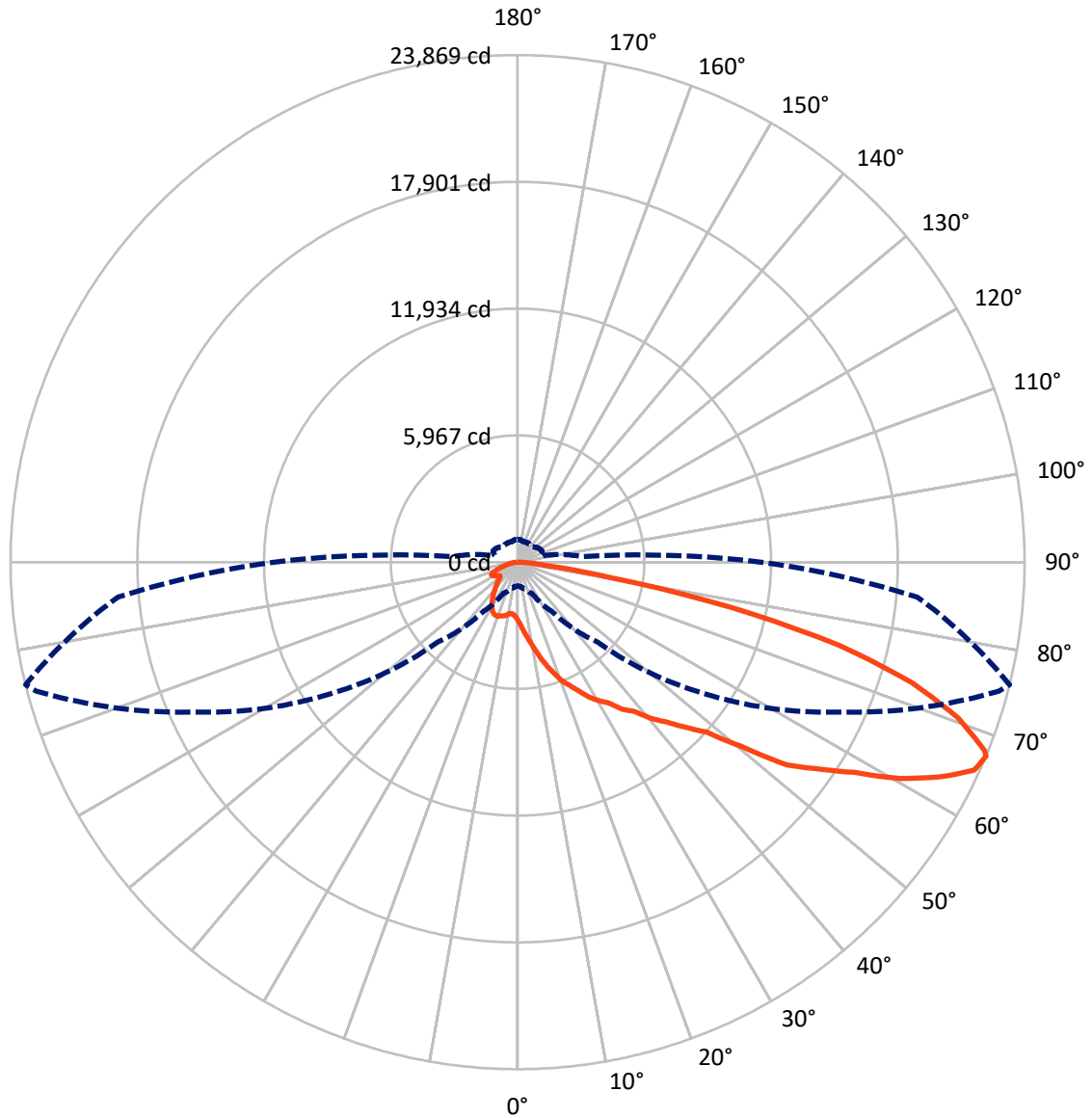
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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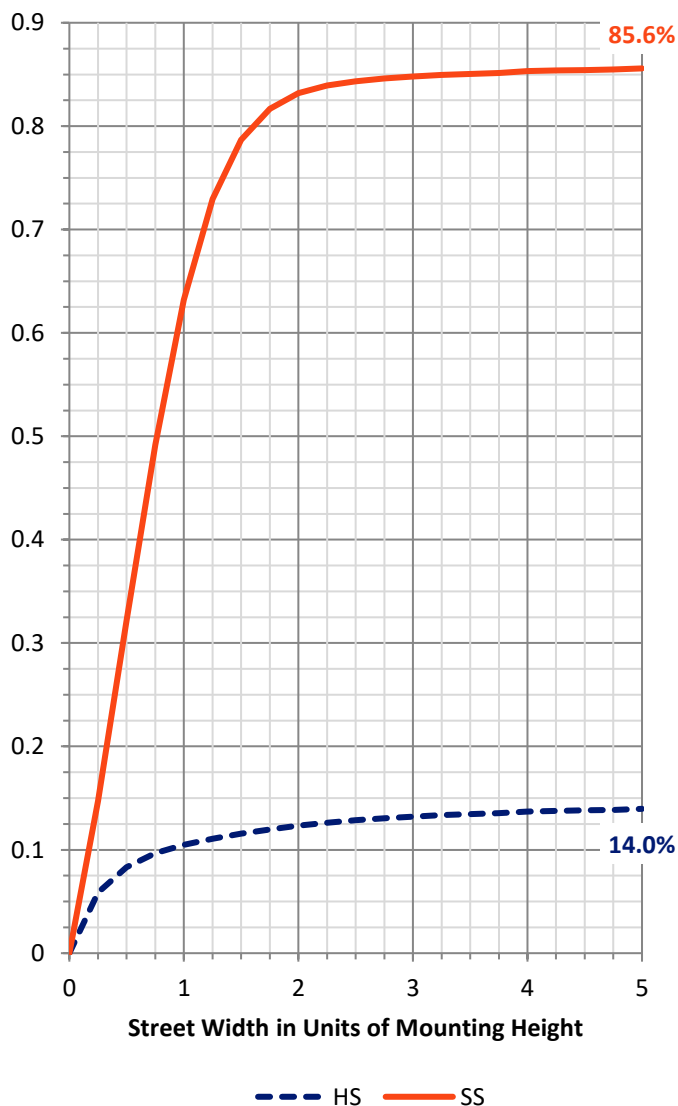
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3815.2	0.0	3815.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	23003.0	0.0	23003.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	26818.2	0.0	26818.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	1.2
10°-20°	1192.3	4.4
20°-30°	2216.7	8.3
30°-40°	3513.9	13.1
40°-50°	4860.0	18.1
50°-60°	5978.1	22.3
60°-70°	5562.9	20.7
70°-80°	2791.5	10.4
80°-90°	384.9	1.4
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°	26818.2	100.0
0°-180°	26818.2	100.0

Coefficient of Utilization



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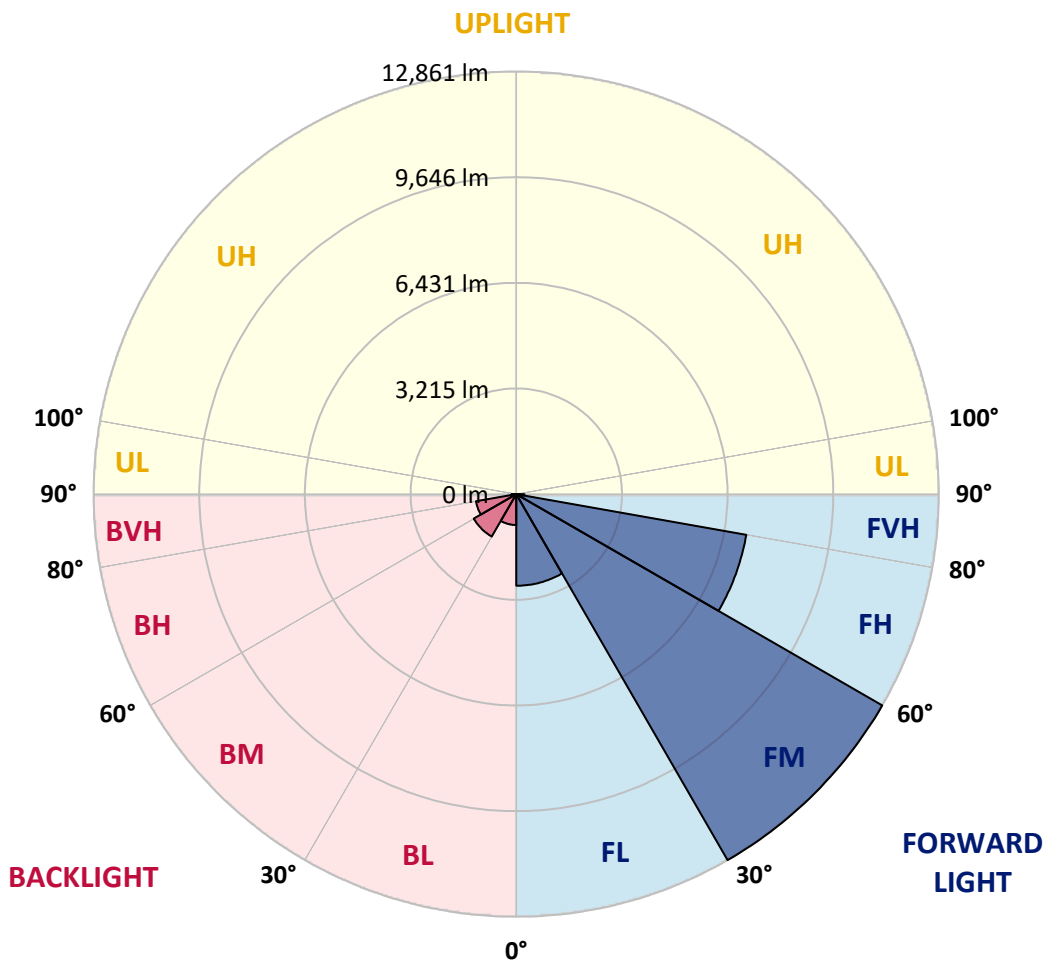
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2787.3	10.4			
FM (30°-60°)	12861.1	48.0			
FH (60°-80°)	7109.3	26.5			G3/7500
FVH (80°-90°)	245.2	0.9			G3/500
BL (0°-30°)	939.5	3.5	B2/1000		
BM (30°-60°)	1490.9	5.6	B2/2500		
BH (60°-80°)	1245.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	139.7	0.5			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4
2.5°	3808.0	3762.1	3716.3	3618.5	3584.9	3493.2	3325.1	3138.7	2985.9	2964.5	2857.5
5°	4724.8	4657.6	4642.3	4587.3	4413.1	4235.8	3960.8	3661.3	3288.4	3315.9	2949.2
7.5°	5412.5	5372.7	5290.2	5238.3	5134.3	4899.0	4614.8	4217.5	3743.8	3652.1	3154.0
10°	5932.0	5877.0	5873.9	5828.1	5773.1	5531.6	5314.7	4779.8	4171.7	4046.4	3404.6
12.5°	6194.8	6185.7	6347.6	6347.6	6326.2	6225.4	5852.5	5363.6	4578.1	4535.3	3694.9
15°	6479.1	6402.7	6543.2	6650.2	6705.2	6757.2	6448.5	5932.0	5097.7	5015.2	4006.6
17.5°	6479.1	6472.9	6613.5	6790.8	7078.1	7145.3	6977.2	6454.6	5528.6	5467.5	4348.9
20°	6369.0	6457.7	6555.5	6793.8	7105.6	7377.6	7426.5	6989.4	6005.4	5956.5	4737.0
22.5°	6882.5	6796.9	6897.8	6989.4	7230.9	7643.5	7777.9	7460.1	6506.6	6320.1	5088.5
25°	7744.3	7686.2	7612.9	7478.4	7579.3	7759.6	7964.4	7808.5	6934.4	6726.6	5427.7
27.5°	8584.8	8587.8	8428.9	8135.5	7918.5	7955.2	8196.6	8114.1	7295.1	7203.4	5660.0
30°	9779.7	9706.4	9529.1	9131.8	8707.0	8358.6	8318.9	8398.3	7753.5	7576.2	5993.1
32.5°	10675.2	10690.4	10439.8	9868.3	9287.7	9003.4	8655.0	8688.7	8043.8	7912.4	6259.0
35°	11399.5	11381.1	11203.9	10730.2	10042.5	9700.2	9229.6	9037.1	8719.2	8511.4	6665.5
37.5°	12181.9	12032.1	11744.8	11210.0	10769.9	10296.2	9837.8	9403.8	9168.5	8917.9	7013.9
40°	12496.6	12496.6	12111.6	11867.1	11344.5	10986.9	10690.4	9886.7	9715.5	9666.6	7460.1
42.5°	12273.5	12411.1	12252.1	11974.0	11760.1	11307.8	11228.3	10387.9	10390.9	10293.1	7994.9
45°	12252.1	12062.7	11931.2	12001.5	11900.7	11876.2	12077.9	11081.6	11100.0	11087.7	8713.1
47.5°	11637.9	11552.3	11747.9	11864.0	11946.5	12325.5	12906.2	11909.9	12041.3	11949.6	9541.3
50°	11026.6	11011.3	11133.6	11555.3	11912.9	12536.4	13694.6	13187.3	13618.2	13612.1	11041.9
52.5°	9351.8	9513.8	9993.6	10886.0	11769.3	12823.6	14290.6	14819.3	15641.4	15864.5	12285.8
55°	7750.4	7664.8	8373.9	9669.7	11142.8	12936.7	14956.8	15800.3	17010.6	17172.6	13563.2
57.5°	6029.8	6188.7	6748.0	7991.9	9846.9	12377.4	15445.8	16769.1	18557.0	18682.3	15045.5
60°	4498.7	4520.1	5134.3	6136.8	8123.3	11115.3	15604.7	17762.4	20329.6	20687.1	16598.0
62.5°	2830.0	2958.4	3426.0	4413.1	6115.4	9348.8	14892.7	18364.5	22187.7	22282.5	18162.8
65°	1525.0	1607.5	1959.0	2579.4	4272.5	7072.0	13004.0	18003.8	23061.8	23624.1	18859.6
67°	1127.7	1143.0	1305.0	1647.3	2857.5	5323.8	10843.3	16698.9	23459.1	23868.6	18887.1
67.5°	1057.4	1078.8	1207.2	1479.2	2533.6	4902.1	10277.9	16234.3	23281.8	23721.9	18673.1
70°	904.6	910.7	941.3	1017.7	1421.1	2949.2	6998.6	13303.5	21579.5	22001.3	17172.6
72.5°	803.8	809.9	822.1	837.4	962.7	1705.3	4257.2	10238.1	18755.6	19428.0	14816.3
75°	706.0	727.4	733.5	721.3	819.1	1109.4	2264.6	7524.3	15299.1	15626.1	11521.7
77.5°	599.0	608.2	620.4	632.6	730.4	828.2	1088.0	5079.3	10501.0	10302.3	6231.5
80°	504.3	507.3	516.5	525.7	632.6	632.6	617.3	2744.4	4587.3	4385.6	2105.7
82.5°	360.6	382.0	403.4	427.9	525.7	424.8	403.4	1222.5	1451.7	1381.4	712.1
85°	140.6	171.1	265.9	293.4	333.1	229.2	268.9	528.7	605.1	599.0	265.9
87.5°	24.4	27.5	73.3	113.1	122.2	79.5	128.4	189.5	226.2	244.5	97.8
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°	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4	2744.4
2.5°	2768.9	2674.1	2561.1	2448.0	2374.6	2258.5	2249.3	2179.0	2169.9	2145.4	2157.6
5°	2790.3	2677.2	2448.0	2267.7	2185.2	2117.9	2133.2	2102.6	2093.5	2078.2	2053.7
7.5°	2958.4	2735.3	2393.0	2237.1	2176.0	2145.4	2145.4	2108.7	2081.2	2099.6	2117.9
10°	3068.4	2762.8	2435.8	2279.9	2231.0	2163.8	2188.2	2142.4	2157.6	2121.0	2121.0
12.5°	3245.6	2918.6	2524.4	2344.1	2264.6	2203.5	2227.9	2176.0	2163.8	2166.8	2157.6
15°	3484.0	3022.5	2564.1	2380.7	2325.7	2249.3	2231.0	2185.2	2139.3	2124.0	2142.4
17.5°	3707.1	3150.9	2591.6	2402.1	2313.5	2227.9	2206.5	2148.5	2133.2	2087.4	2050.7
20°	3973.0	3303.7	2628.3	2420.5	2267.7	2182.1	2127.1	2069.0	2017.1	1989.6	2001.8
22.5°	4150.3	3383.2	2646.6	2383.8	2200.4	2121.0	2004.8	1965.1	1891.8	1861.2	1836.8
25°	4440.6	3481.0	2600.8	2283.0	2081.2	1952.9	1849.0	1794.0	1742.0	1702.3	1690.1
27.5°	4513.9	3554.3	2493.8	2111.8	1891.8	1757.3	1668.7	1601.4	1567.8	1506.7	1494.5
30°	4727.9	3481.0	2334.9	1904.0	1711.4	1573.9	1485.3	1436.4	1356.9	1341.7	1308.0
32.5°	4865.4	3502.4	2133.2	1702.3	1503.6	1381.4	1323.3	1274.4	1253.0	1179.7	1161.3
35°	5094.6	3429.0	1928.4	1515.9	1332.5	1237.7	1188.8	1173.6	1103.3	1069.7	1039.1
37.5°	5241.3	3386.2	1723.7	1305.0	1146.1	1106.3	1121.6	1057.4	971.9	907.7	886.3
40°	5498.0	3370.9	1491.4	1130.8	1017.7	1008.5	1057.4	935.2	779.3	724.3	693.7
42.5°	5867.8	3267.0	1311.1	974.9	916.8	956.6	965.7	779.3	690.7	644.8	623.5
45°	6222.3	3288.4	1133.8	806.8	797.7	855.7	834.3	660.1	608.2	574.6	592.9
47.5°	6903.9	3395.4	959.6	672.4	718.2	773.2	647.9	589.8	540.9	516.5	519.5
50°	7958.2	3499.3	806.8	614.3	678.5	699.9	556.2	534.8	531.8	482.9	479.8
52.5°	8590.9	3459.6	779.3	687.6	727.4	699.9	605.1	589.8	565.4	544.0	519.5
55°	9596.3	3575.7	837.4	803.8	825.2	672.4	678.5	672.4	654.0	599.0	614.3
57.5°	10397.1	3652.1	913.8	898.5	886.3	699.9	709.0	712.1	699.9	675.4	696.8
60°	11497.3	3804.9	993.3	996.3	999.4	761.0	776.3	794.6	791.5	782.4	788.5
62.5°	12172.7	3734.6	1081.9	1130.8	1115.5	886.3	883.2	895.5	895.5	910.7	919.9
65°	12071.8	3474.9	1127.7	1250.0	1170.5	978.0	978.0	984.1	987.1	1017.7	1020.8
67°	11466.7	3010.3	1103.3	1268.3	1170.5	1014.6	1014.6	1020.8	999.4	1078.8	1054.4
67.5°	11185.5	2872.8	1081.9	1253.0	1161.3	1011.6	1011.6	1014.6	996.3	1072.7	1048.3
70°	9727.8	2133.2	932.1	1109.4	1075.8	984.1	984.1	965.7	950.5	1051.3	1029.9
72.5°	8303.6	1549.5	748.8	944.4	971.9	947.4	953.5	907.7	864.9	935.2	916.8
75°	6359.9	1139.9	583.7	727.4	822.1	886.3	926.0	809.9	754.9	773.2	739.6
77.5°	3548.2	742.6	461.5	537.9	626.5	825.2	889.3	730.4	617.3	596.0	596.0
80°	1204.1	434.0	339.2	400.4	430.9	730.4	831.3	592.9	485.9	464.5	449.3
82.5°	455.4	265.9	232.3	275.1	275.1	577.6	678.5	455.4	366.7	473.7	482.9
85°	207.8	158.9	152.8	158.9	158.9	354.5	479.8	296.4	330.1	284.2	250.6
87.5°	82.5	76.4	70.3	67.2	55.0	61.1	165.0	79.5	149.8	39.7	36.7
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)