

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: P478137

Luminaire Tested: **IFLD-M-SA4A-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478137
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

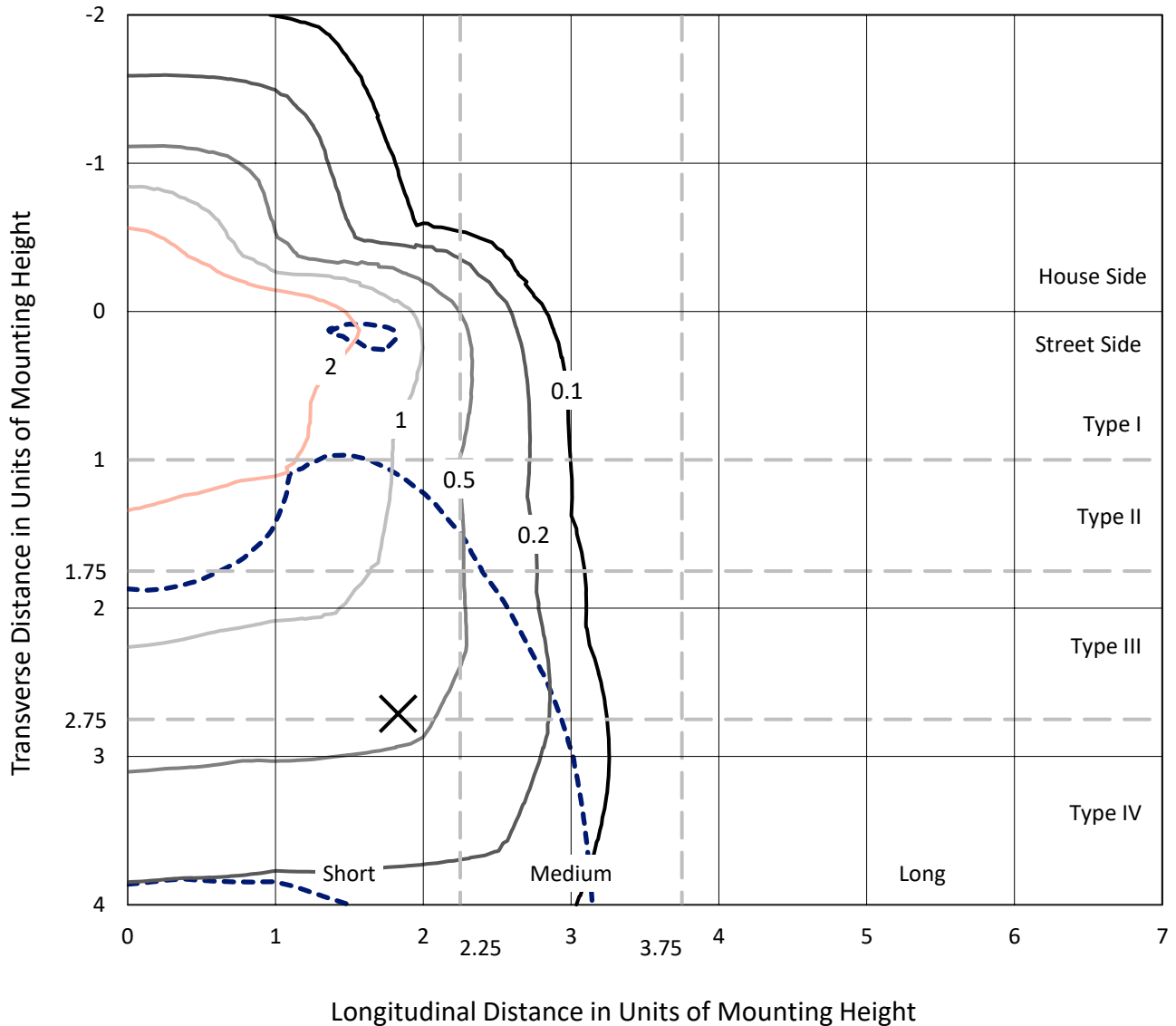
Lumens per Lamp: N/A
Luminaire Lumens: 18660.5 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

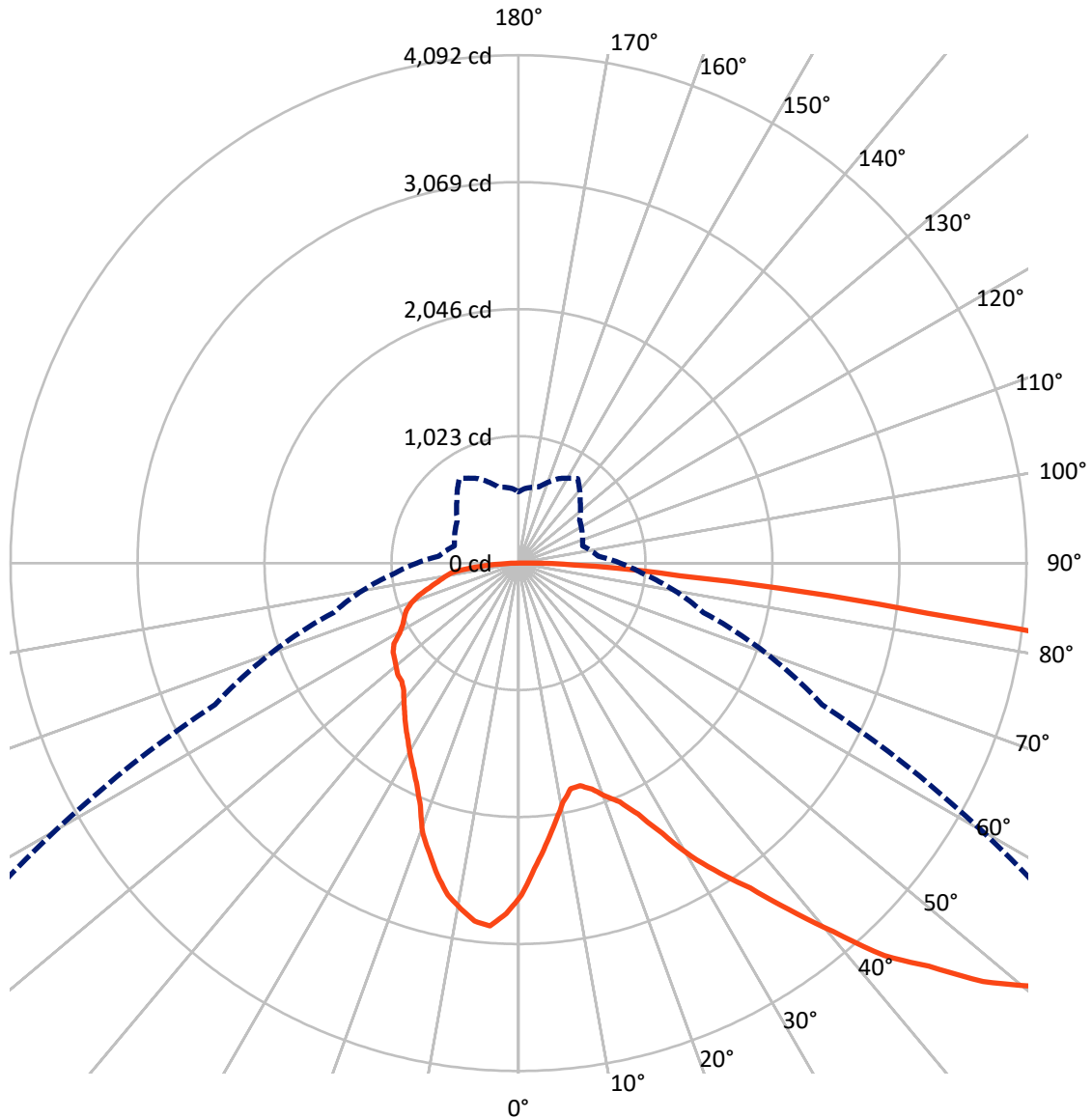
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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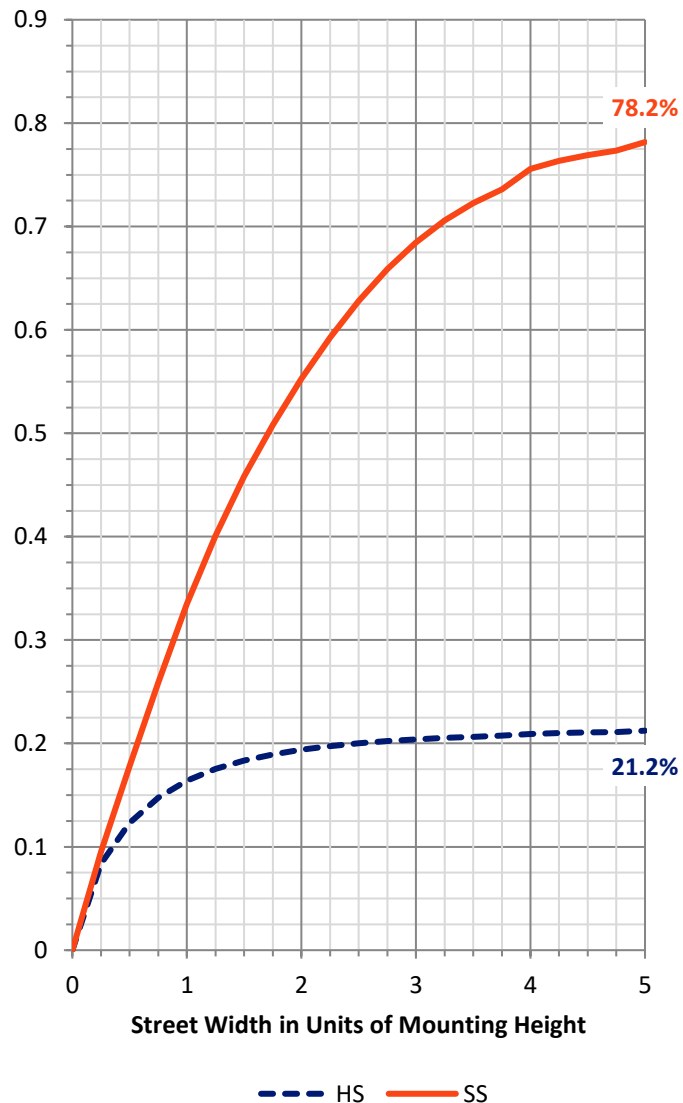
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4030.9	0.0	4030.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14629.6	0.0	14629.6
	% Fixture	78.4	0.0	78.4
Total	Lumens	18660.5	0.0	18660.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	1.3
10°-20°	691.0	3.7
20°-30°	1137.3	6.1
30°-40°	1700.8	9.1
40°-50°	2521.4	13.5
50°-60°	3633.6	19.5
60°-70°	4637.0	24.8
70°-80°	3608.3	19.3
80°-90°	484.1	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°	18660.5	100.0
0°-180°	18660.5	100.0

Coefficient of Utilization



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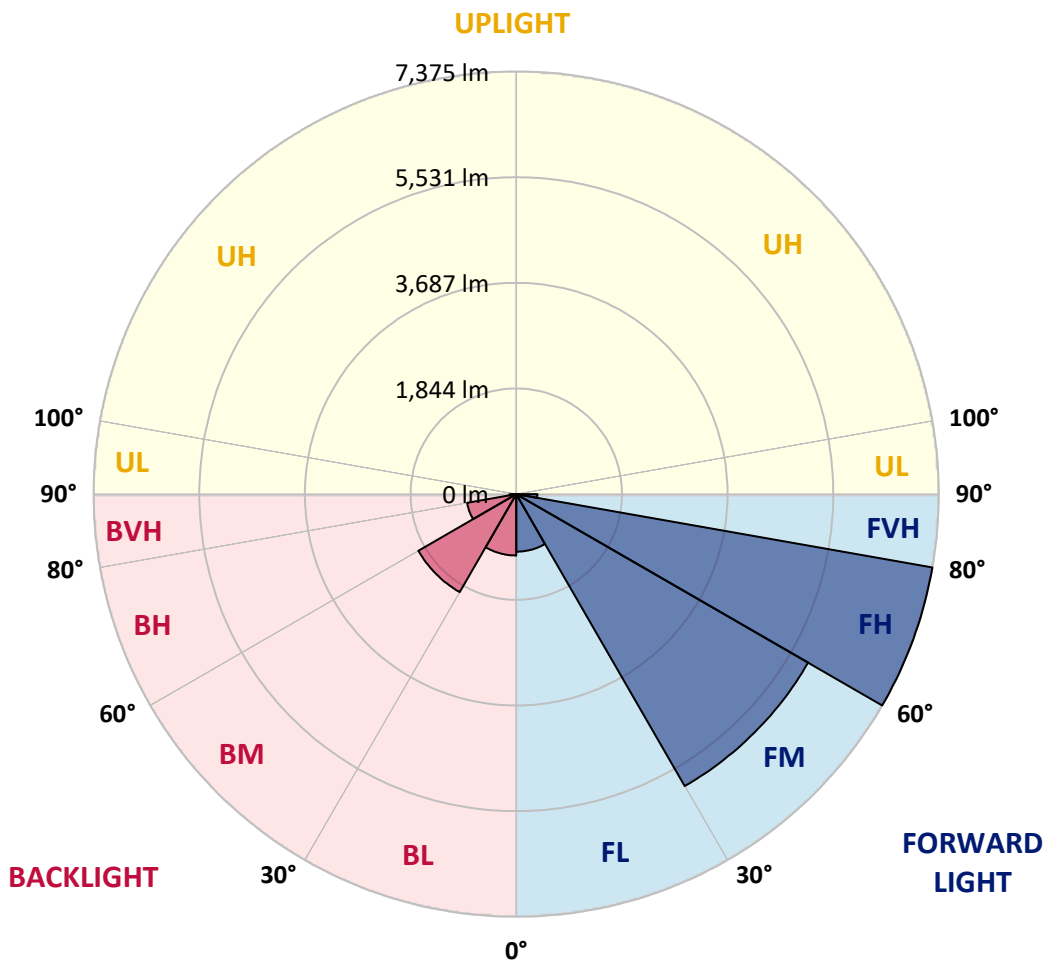
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1004.2	5.4			
FM (30°-60°)	5881.9	31.5			
FH (60°-80°)	7374.9	39.5			G3/7500
FVH (80°-90°)	368.5	2.0			G3/500
BL (0°-30°)	1071.0	5.7	B3/2500		
BM (30°-60°)	1973.9	10.6	B2/2500		
BH (60°-80°)	870.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	115.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2397.1	2405.0	2430.6	2436.5	2464.2	2448.4	2481.9	2541.1	2574.7	2624.0	2683.2
5°	2207.7	2174.1	2189.9	2251.1	2282.7	2290.6	2326.1	2426.7	2489.8	2562.8	2673.3
7.5°	1984.8	1978.8	2010.4	2049.9	2113.0	2118.9	2197.8	2286.6	2416.8	2578.6	2708.8
10°	1832.8	1858.5	1876.2	1917.7	1961.1	1961.1	2061.7	2215.6	2363.5	2519.4	2716.7
12.5°	1824.9	1809.2	1813.1	1834.8	1866.4	1905.8	2000.5	2138.6	2326.1	2507.6	2750.2
15°	1850.6	1856.5	1821.0	1848.6	1860.5	1874.3	1978.8	2134.7	2302.4	2549.0	2807.5
17.5°	1986.7	1953.2	1897.9	1872.3	1913.7	1913.7	1984.8	2107.1	2306.3	2570.7	2890.3
20°	2093.3	2093.3	2002.5	1974.9	2004.5	1998.6	2047.9	2138.6	2326.1	2614.1	2983.0
22.5°	2272.8	2298.4	2148.5	2091.3	2089.3	2105.1	2148.5	2225.4	2381.3	2675.3	3071.8
25°	2531.2	2537.2	2363.5	2304.4	2241.2	2266.9	2274.8	2351.7	2430.6	2746.3	3172.4
27.5°	2819.3	2815.3	2655.5	2507.6	2466.1	2472.1	2428.7	2480.0	2503.6	2768.0	3316.5
30°	3138.9	3103.4	2983.0	2773.9	2740.4	2702.9	2608.2	2606.2	2655.5	2890.3	3515.7
32.5°	3348.0	3302.7	3219.8	3069.9	2977.1	2981.1	2831.1	2829.2	2785.8	3024.5	3689.3
35°	3553.2	3484.2	3462.5	3308.6	3215.8	3225.7	3105.4	3089.6	3010.7	3227.7	3975.4
37.5°	3799.8	3738.7	3772.2	3655.8	3541.4	3494.0	3438.8	3419.1	3316.5	3513.8	4366.1
40°	4072.1	4052.4	4030.7	3973.4	3904.4	3908.3	3849.2	3829.4	3677.5	3859.0	4740.9
42.5°	4439.1	4364.1	4251.6	4289.1	4324.6	4362.1	4342.4	4291.1	4133.3	4210.2	5159.2
45°	4780.4	4681.7	4474.6	4486.4	4632.4	4662.0	4900.7	4894.8	4577.2	4656.1	5634.6
47.5°	5011.2	4965.8	4841.5	4827.7	5036.8	5034.9	5465.0	5465.0	5044.7	5100.0	6145.6
50°	5354.5	5236.1	5182.8	5251.9	5358.4	5431.4	6041.1	6078.5	5504.4	5563.6	6814.4
52.5°	5757.0	5609.0	5474.8	5652.4	5841.8	5889.1	6611.2	6595.4	5857.6	6102.2	7597.7
55°	6090.4	6015.4	5922.7	6025.3	6335.0	6394.2	7183.4	7037.4	6210.7	6548.1	7974.5
57.5°	6479.0	6524.4	6544.2	6518.5	6887.4	6980.2	7836.4	7418.2	6514.6	6848.0	8195.5
60°	7065.0	7092.6	7118.3	7179.4	7570.1	7700.3	8353.3	7895.6	6705.9	7021.6	8213.2
62.5°	7956.8	7850.2	7907.4	8118.5	8432.2	8580.2	9114.9	8231.0	6851.9	7126.2	7633.2
65°	8976.8	8832.7	8773.5	9045.8	9858.6	9740.3	10065.8	8481.6	6640.8	6735.5	6473.1
67.5°	10010.6	10026.3	9874.4	10420.9	11417.2	11417.2	10949.7	8601.9	6068.7	5459.0	4539.7
70°	10831.3	10880.6	10963.5	12022.9	13601.3	13840.0	12044.6	8108.7	4902.7	3634.1	2481.9
72.5°	10819.5	10671.5	11095.7	13046.9	15586.0	15386.7	12273.5	6412.0	3060.0	1779.6	1138.4
73°	10576.8	10452.5	10916.1	13037.0	15666.9	15479.5	12105.8	5910.8	2698.9	1542.8	1012.1
75°	8637.4	8412.5	9201.7	11807.9	14495.0	14639.0	10284.8	3855.1	1479.7	950.9	712.2
77.5°	3937.9	4036.6	5064.5	7921.2	11170.6	11340.3	6761.2	1667.1	810.9	666.8	524.8
80°	1264.6	1327.8	1970.9	3937.9	7001.9	7307.7	3125.1	757.6	578.1	511.0	392.6
82.5°	483.4	481.4	826.7	1637.5	3318.4	3513.8	1142.3	461.7	430.1	376.8	278.2
85°	169.7	177.6	311.7	647.1	1306.1	1367.2	396.6	256.5	297.9	252.5	159.8
87.5°	59.2	61.2	110.5	234.8	449.8	475.5	110.5	102.6	148.0	146.0	80.9
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°	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3	2675.3
2.5°	2702.9	2720.6	2726.6	2797.6	2797.6	2797.6	2825.2	2825.2	2817.3	2797.6	2844.9
5°	2714.7	2746.3	2807.5	2868.6	2884.4	2898.2	2935.7	2904.1	2916.0	2896.2	2914.0
7.5°	2748.3	2791.7	2906.1	2943.6	2917.9	2947.5	2908.1	2886.4	2864.7	2872.6	2844.9
10°	2805.5	2860.7	2914.0	2983.0	2933.7	2904.1	2823.2	2803.5	2734.5	2710.8	2732.5
12.5°	2876.5	2943.6	3034.3	3008.7	2914.0	2829.2	2742.3	2659.5	2618.1	2558.9	2574.7
15°	2947.5	3024.5	3038.3	2994.9	2876.5	2770.0	2612.1	2495.7	2454.3	2401.0	2428.7
17.5°	3024.5	3097.5	3073.8	2961.3	2801.5	2639.8	2460.2	2345.8	2259.0	2225.4	2225.4
20°	3138.9	3174.4	3136.9	2906.1	2710.8	2497.7	2324.1	2193.9	2107.1	2093.3	2071.6
22.5°	3227.7	3284.9	3117.2	2825.2	2578.6	2312.3	2113.0	2063.7	2038.0	2016.3	1988.7
25°	3342.1	3340.1	3081.7	2750.2	2351.7	2091.3	1970.9	1967.0	1955.2	1947.3	1984.8
27.5°	3450.6	3405.2	3040.3	2564.8	2116.9	1923.6	1858.5	1901.9	1919.6	1907.8	1923.6
30°	3622.3	3547.3	2981.1	2367.5	1909.8	1753.9	1765.8	1824.9	1854.5	1872.3	1848.6
32.5°	3803.8	3689.3	2858.8	2162.3	1726.3	1647.4	1675.0	1736.2	1771.7	1791.4	1813.1
35°	4066.2	3799.8	2734.5	1894.0	1594.1	1582.3	1598.1	1631.6	1682.9	1696.7	1702.6
37.5°	4389.7	3967.5	2566.8	1678.9	1491.5	1505.3	1521.1	1533.0	1534.9	1560.6	1550.7
40°	4713.3	4109.6	2322.1	1473.8	1385.0	1460.0	1452.1	1430.4	1412.6	1388.9	1383.0
42.5°	4997.4	4233.9	2049.9	1300.1	1290.3	1412.6	1387.0	1331.7	1290.3	1272.5	1242.9
45°	5317.0	4409.5	1775.6	1191.6	1217.3	1355.4	1347.5	1262.7	1209.4	1146.3	1138.4
47.5°	5731.3	4592.9	1513.2	1079.2	1148.2	1333.7	1337.6	1229.1	1152.2	1067.3	1055.5
50°	6262.0	4857.3	1314.0	1031.8	1106.8	1302.1	1308.0	1183.7	1083.1	996.3	988.4
52.5°	6771.0	5127.6	1148.2	958.8	1079.2	1264.6	1278.4	1142.3	1025.9	917.4	923.3
55°	7027.5	5029.0	1006.2	905.6	1016.1	1203.5	1254.8	1112.7	939.1	864.1	862.2
57.5°	7084.7	4786.3	893.7	850.3	962.8	1138.4	1215.3	1023.9	899.6	836.5	828.6
60°	6897.3	4362.1	804.9	791.1	895.7	1071.3	1124.6	976.6	860.2	808.9	797.1
62.5°	6435.6	3922.2	743.8	763.5	838.5	998.3	1067.3	943.1	822.7	787.2	761.5
65°	5277.5	3225.7	694.5	710.2	779.3	927.3	1031.8	905.6	789.2	755.6	753.7
67.5°	3655.8	2223.5	655.0	684.6	732.0	876.0	996.3	864.1	745.8	733.9	718.1
70°	1872.3	1185.7	603.7	627.4	680.7	810.9	933.2	820.7	700.4	698.4	678.7
72.5°	949.0	694.5	544.5	580.0	617.5	726.0	854.3	763.5	643.2	621.5	589.9
73°	820.7	643.2	534.7	566.2	601.7	702.4	830.6	749.7	635.3	603.7	574.1
75°	597.8	507.0	479.4	511.0	538.6	633.3	751.7	686.6	584.0	550.4	522.8
77.5°	447.9	390.6	398.5	434.0	457.7	546.5	668.8	621.5	528.7	483.4	471.5
80°	329.5	297.9	329.5	363.0	380.8	481.4	609.6	538.6	445.9	394.6	384.7
82.5°	234.8	217.0	254.5	276.2	284.1	398.5	548.5	430.1	337.4	270.3	248.6
85°	134.2	132.2	171.6	169.7	175.6	232.8	361.0	286.1	217.0	165.7	161.8
87.5°	59.2	65.1	86.8	69.1	73.0	110.5	153.9	106.5	88.8	49.3	37.5
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)