

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: P476968

Luminaire Tested: **IFLD-M-SA4B-735-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476968  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

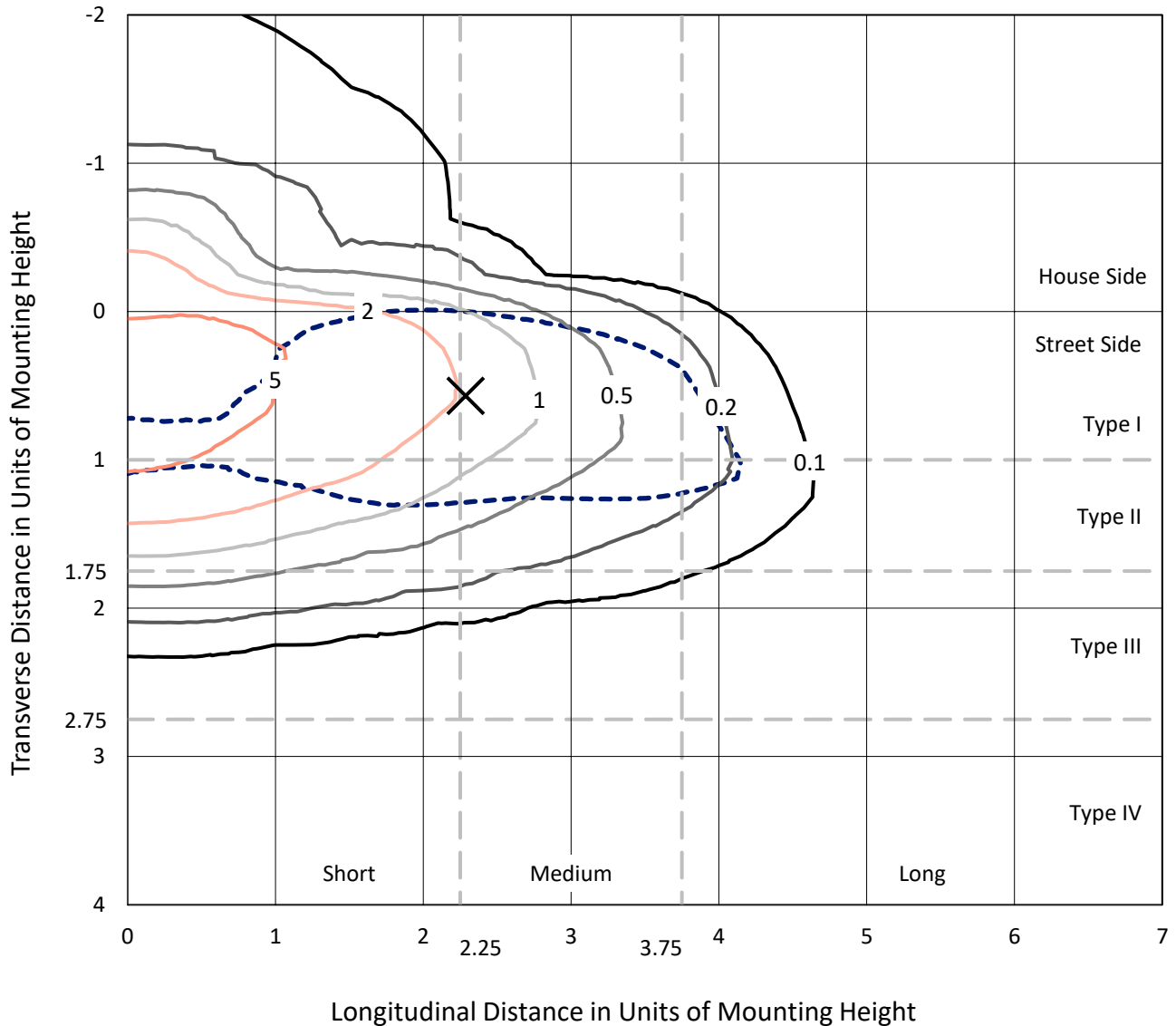
Lumens per Lamp: N/A  
Luminaire Lumens: 22653.2 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

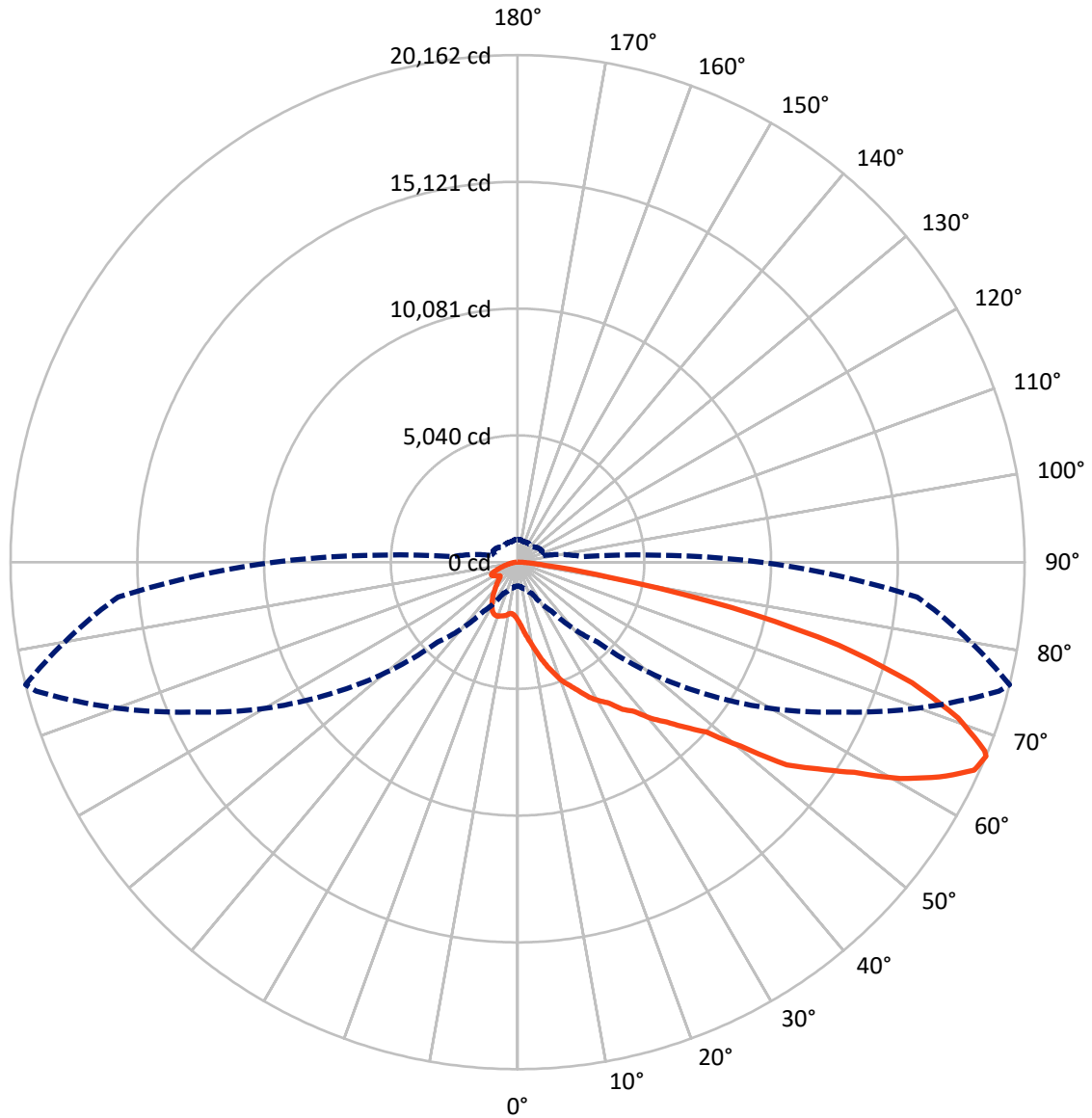
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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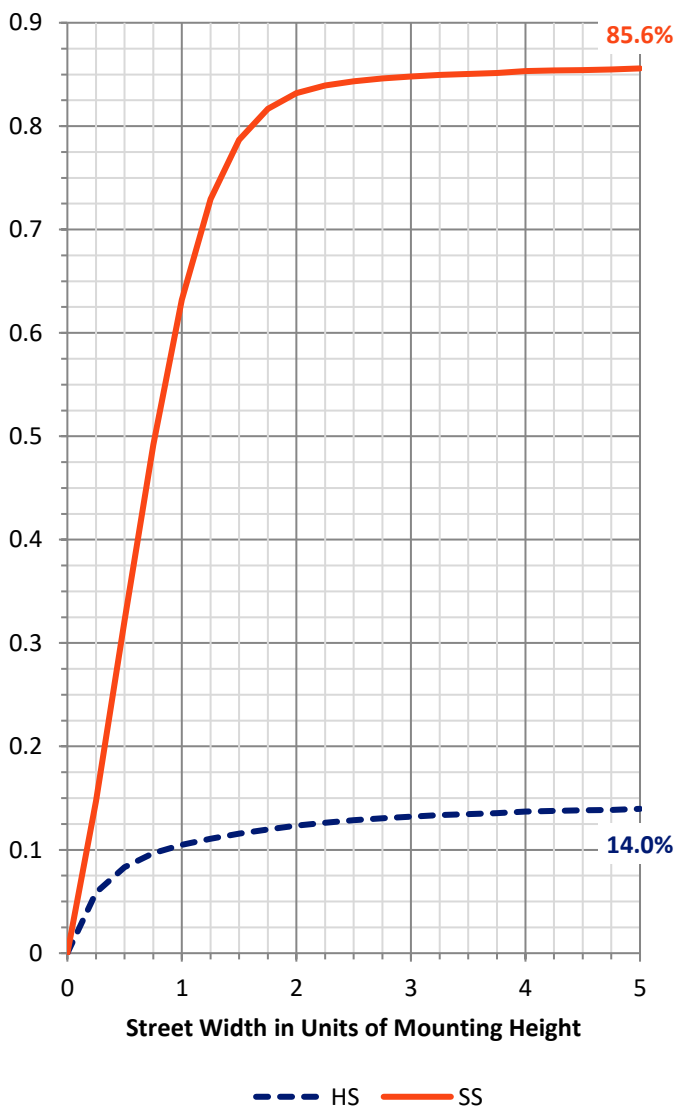
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3222.7	0.0	3222.7
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	19430.5	0.0	19430.5
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	22653.2	0.0	22653.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.5	1.2
10°-20°	1007.1	4.4
20°-30°	1872.4	8.3
30°-40°	2968.2	13.1
40°-50°	4105.2	18.1
50°-60°	5049.7	22.3
60°-70°	4699.0	20.7
70°-80°	2357.9	10.4
80°-90°	325.1	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°	22653.2	100.0
0°-180°	22653.2	100.0

**Coefficient of Utilization**



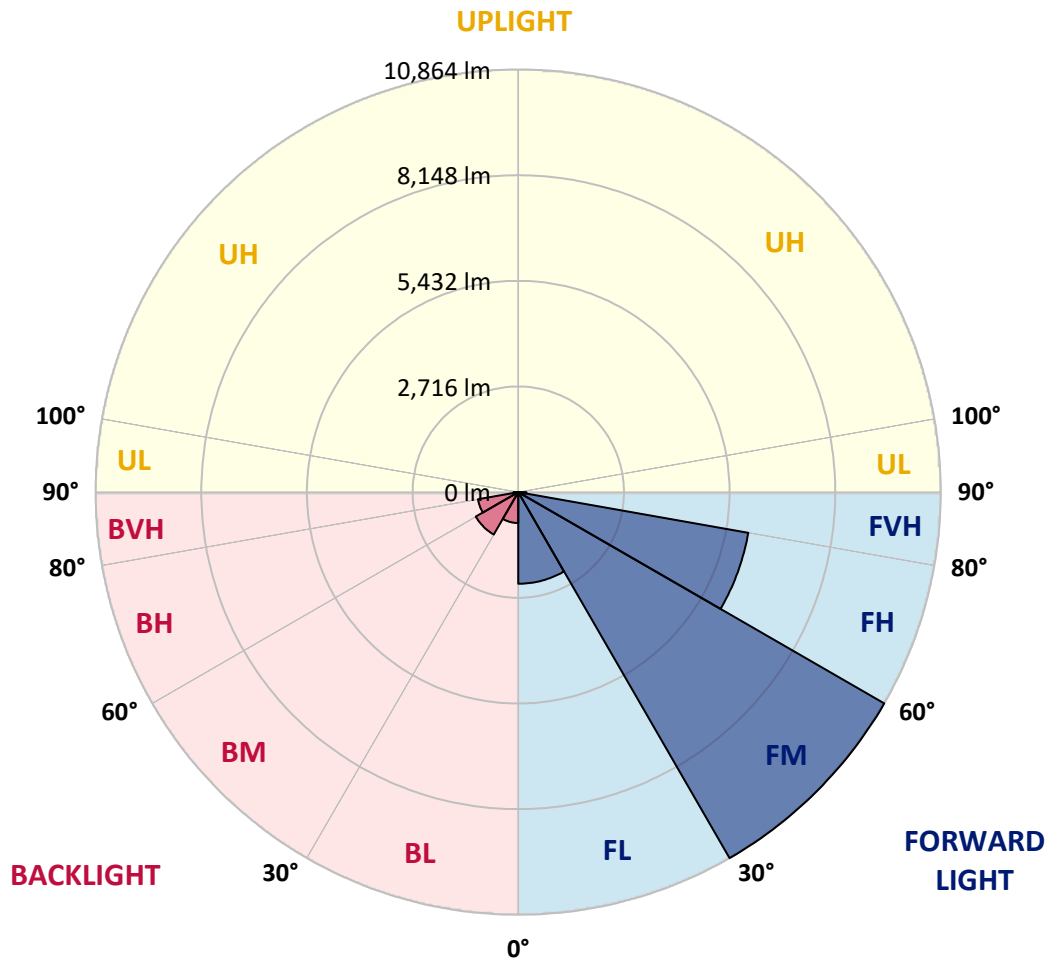
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2354.4	10.4			
FM (30°-60°)	10863.7	48.0			
FH (60°-80°)	6005.2	26.5			G3/7500
FVH (80°-90°)	207.1	0.9			G2/225
BL (0°-30°)	793.6	3.5	B2/1000		
BM (30°-60°)	1259.4	5.6	B2/2500		
BH (60°-80°)	1051.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	118.0	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°	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2
2.5°	3216.6	3177.8	3139.1	3056.5	3028.1	2950.7	2808.7	2651.2	2522.1	2504.1	2413.7
5°	3991.0	3934.2	3921.3	3874.9	3727.7	3578.0	3345.6	3092.7	2777.7	2800.9	2491.2
7.5°	4571.9	4538.3	4468.6	4424.7	4337.0	4138.2	3898.1	3562.5	3162.4	3084.9	2664.1
10°	5010.7	4964.3	4961.7	4923.0	4876.5	4672.5	4489.3	4037.5	3523.8	3417.9	2875.8
12.5°	5232.7	5225.0	5361.8	5361.8	5343.7	5258.6	4943.6	4530.6	3867.1	3831.0	3121.1
15°	5472.8	5408.3	5527.0	5617.4	5663.9	5707.7	5447.0	5010.7	4306.0	4236.3	3384.4
17.5°	5472.8	5467.7	5586.4	5736.1	5978.8	6035.6	5893.6	5452.2	4670.0	4618.3	3673.5
20°	5379.9	5454.7	5537.4	5738.7	6002.0	6231.8	6273.1	5903.9	5072.7	5031.4	4001.4
22.5°	5813.6	5741.3	5826.5	5903.9	6107.9	6456.4	6570.0	6301.5	5496.1	5338.6	4298.2
25°	6541.6	6492.5	6430.6	6317.0	6402.2	6554.5	6727.4	6595.8	5857.5	5681.9	4584.8
27.5°	7251.5	7254.1	7119.8	6872.0	6688.7	6719.7	6923.6	6853.9	6162.1	6084.6	4781.0
30°	8260.9	8198.9	8049.2	7713.6	7354.7	7060.5	7026.9	7094.0	6549.3	6399.6	5062.4
32.5°	9017.2	9030.2	8818.5	8335.7	7845.2	7605.2	7310.9	7339.3	6794.6	6683.6	5286.9
35°	9629.1	9613.6	9463.8	9063.7	8482.9	8193.7	7796.2	7633.5	7365.1	7189.5	5630.3
37.5°	10289.9	10163.4	9920.8	9469.0	9097.3	8697.1	8309.9	7943.3	7744.6	7532.9	5924.6
40°	10555.8	10555.8	10230.6	10024.0	9582.6	9280.6	9030.2	8351.2	8206.6	8165.3	6301.5
42.5°	10367.4	10483.5	10349.3	10114.4	9933.7	9551.6	9484.5	8774.6	8777.2	8694.6	6753.3
45°	10349.3	10189.3	10078.2	10137.6	10052.4	10031.8	10202.2	9360.6	9376.1	9365.7	7359.9
47.5°	9830.4	9758.1	9923.4	10021.5	10091.2	10411.3	10901.8	10060.2	10171.2	10093.7	8059.5
50°	9314.1	9301.2	9404.5	9760.7	10062.8	10589.4	11567.8	11139.3	11503.2	11498.1	9327.0
52.5°	7899.4	8036.3	8441.6	9195.4	9941.4	10832.1	12071.2	12517.8	13212.2	13400.7	10377.7
55°	6546.7	6474.4	7073.4	8167.9	9412.2	10927.6	12634.0	13346.4	14368.7	14505.6	11456.8
57.5°	5093.3	5227.6	5700.0	6750.7	8317.7	10455.1	13047.0	14164.8	15675.0	15780.8	12708.8
60°	3800.0	3818.1	4337.0	5183.7	6861.7	9389.0	13181.2	15003.8	17172.3	17474.3	14020.2
62.5°	2390.5	2498.9	2893.9	3727.7	5165.6	7896.9	12579.7	15512.3	18741.8	18821.8	15342.0
65°	1288.2	1357.9	1654.8	2178.8	3609.0	5973.6	10984.4	15207.7	19480.1	19955.1	15930.5
67°	952.6	965.5	1102.3	1391.4	2413.7	4497.0	9159.2	14105.4	19815.7	20161.7	15953.8
67.5°	893.2	911.3	1019.7	1249.5	2140.1	4140.8	8681.6	13713.0	19666.0	20037.7	15773.1
70°	764.1	769.3	795.1	859.6	1200.4	2491.2	5911.7	11237.3	18228.1	18584.3	14505.6
72.5°	678.9	684.1	694.4	707.3	813.2	1440.5	3596.1	8648.1	15842.8	16410.7	12515.2
75°	596.3	614.4	619.6	609.2	691.8	937.1	1912.9	6355.7	12923.1	13199.3	9732.3
77.5°	506.0	513.7	524.0	534.4	617.0	699.6	919.0	4290.5	8870.1	8702.3	5263.7
80°	426.0	428.5	436.3	444.0	534.4	534.4	521.5	2318.2	3874.9	3704.5	1778.7
82.5°	304.6	322.7	340.8	361.4	444.0	358.8	340.8	1032.6	1226.2	1166.8	601.5
85°	118.7	144.6	224.6	247.8	281.4	193.6	227.2	446.6	511.1	506.0	224.6
87.5°	20.7	23.2	62.0	95.5	103.3	67.1	108.4	160.1	191.0	206.5	82.6
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°	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2
2.5°	2338.9	2258.8	2163.3	2067.8	2005.8	1907.7	1900.0	1840.6	1832.9	1812.2	1822.6
5°	2356.9	2261.4	2067.8	1915.5	1845.8	1789.0	1801.9	1776.1	1768.3	1755.4	1734.8
7.5°	2498.9	2310.5	2021.3	1889.7	1838.0	1812.2	1812.2	1781.2	1758.0	1773.5	1789.0
10°	2591.8	2333.7	2057.5	1925.8	1884.5	1827.7	1848.4	1809.6	1822.6	1791.6	1791.6
12.5°	2741.6	2465.3	2132.3	1980.0	1912.9	1861.3	1881.9	1838.0	1827.7	1830.3	1822.6
15°	2942.9	2553.1	2165.9	2011.0	1964.5	1900.0	1884.5	1845.8	1807.1	1794.2	1809.6
17.5°	3131.4	2661.5	2189.1	2029.1	1954.2	1881.9	1863.9	1814.8	1801.9	1763.2	1732.2
20°	3356.0	2790.6	2220.1	2044.6	1915.5	1843.2	1796.7	1747.7	1703.8	1680.6	1690.9
22.5°	3505.7	2857.7	2235.6	2013.6	1858.7	1791.6	1693.5	1659.9	1598.0	1572.1	1551.5
25°	3750.9	2940.3	2196.9	1928.4	1758.0	1649.6	1561.8	1515.4	1471.5	1437.9	1427.6
27.5°	3812.9	3002.3	2106.5	1783.8	1598.0	1484.4	1409.5	1352.7	1324.3	1272.7	1262.4
30°	3993.6	2940.3	1972.3	1608.3	1445.7	1329.5	1254.6	1213.3	1146.2	1133.3	1104.9
32.5°	4109.8	2958.4	1801.9	1437.9	1270.1	1166.8	1117.8	1076.5	1058.4	996.5	981.0
35°	4303.4	2896.5	1628.9	1280.4	1125.5	1045.5	1004.2	991.3	931.9	903.5	877.7
37.5°	4427.3	2860.3	1456.0	1102.3	968.1	934.5	947.4	893.2	820.9	766.7	748.6
40°	4644.2	2847.4	1259.8	955.2	859.6	851.9	893.2	789.9	658.3	611.8	586.0
42.5°	4956.5	2759.6	1107.5	823.5	774.5	808.0	815.8	658.3	583.4	544.7	526.6
45°	5256.0	2777.7	957.7	681.5	673.8	722.8	704.8	557.6	513.7	485.3	500.8
47.5°	5831.6	2868.1	810.6	567.9	606.7	653.1	547.3	498.2	456.9	436.3	438.9
50°	6722.3	2955.8	681.5	518.9	573.1	591.2	469.8	451.8	449.2	407.9	405.3
52.5°	7256.6	2922.3	658.3	580.8	614.4	591.2	511.1	498.2	477.6	459.5	438.9
55°	8106.0	3020.4	707.3	678.9	697.0	567.9	573.1	567.9	552.4	506.0	518.9
57.5°	8782.3	3084.9	771.9	759.0	748.6	591.2	598.9	601.5	591.2	570.5	588.6
60°	9711.7	3214.0	839.0	841.6	844.2	642.8	655.7	671.2	668.6	660.9	666.0
62.5°	10282.2	3154.6	913.9	955.2	942.3	748.6	746.1	756.4	756.4	769.3	777.0
65°	10197.0	2935.2	952.6	1055.8	988.7	826.1	826.1	831.2	833.8	859.6	862.2
67°	9685.9	2542.8	931.9	1071.3	988.7	857.1	857.1	862.2	844.2	911.3	890.6
67.5°	9448.4	2426.6	913.9	1058.4	981.0	854.5	854.5	857.1	841.6	906.1	885.5
70°	8217.0	1801.9	787.4	937.1	908.7	831.2	831.2	815.8	802.9	888.0	870.0
72.5°	7014.0	1308.8	632.5	797.7	820.9	800.3	805.4	766.7	730.6	789.9	774.5
75°	5372.1	962.9	493.1	614.4	694.4	748.6	782.2	684.1	637.6	653.1	624.7
77.5°	2997.1	627.3	389.8	454.3	529.2	697.0	751.2	617.0	521.5	503.4	503.4
80°	1017.1	366.6	286.5	338.2	364.0	617.0	702.2	500.8	410.5	392.4	379.5
82.5°	384.6	224.6	196.2	232.3	232.3	487.9	573.1	384.6	309.8	400.1	407.9
85°	175.5	134.2	129.1	134.2	134.2	299.5	405.3	250.4	278.8	240.1	211.7
87.5°	69.7	64.5	59.4	56.8	46.5	51.6	139.4	67.1	126.5	33.6	31.0
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)