

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: P477046

Luminaire Tested: **IFLD-M-SA4B-750-U-T2R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P477046
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-750-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

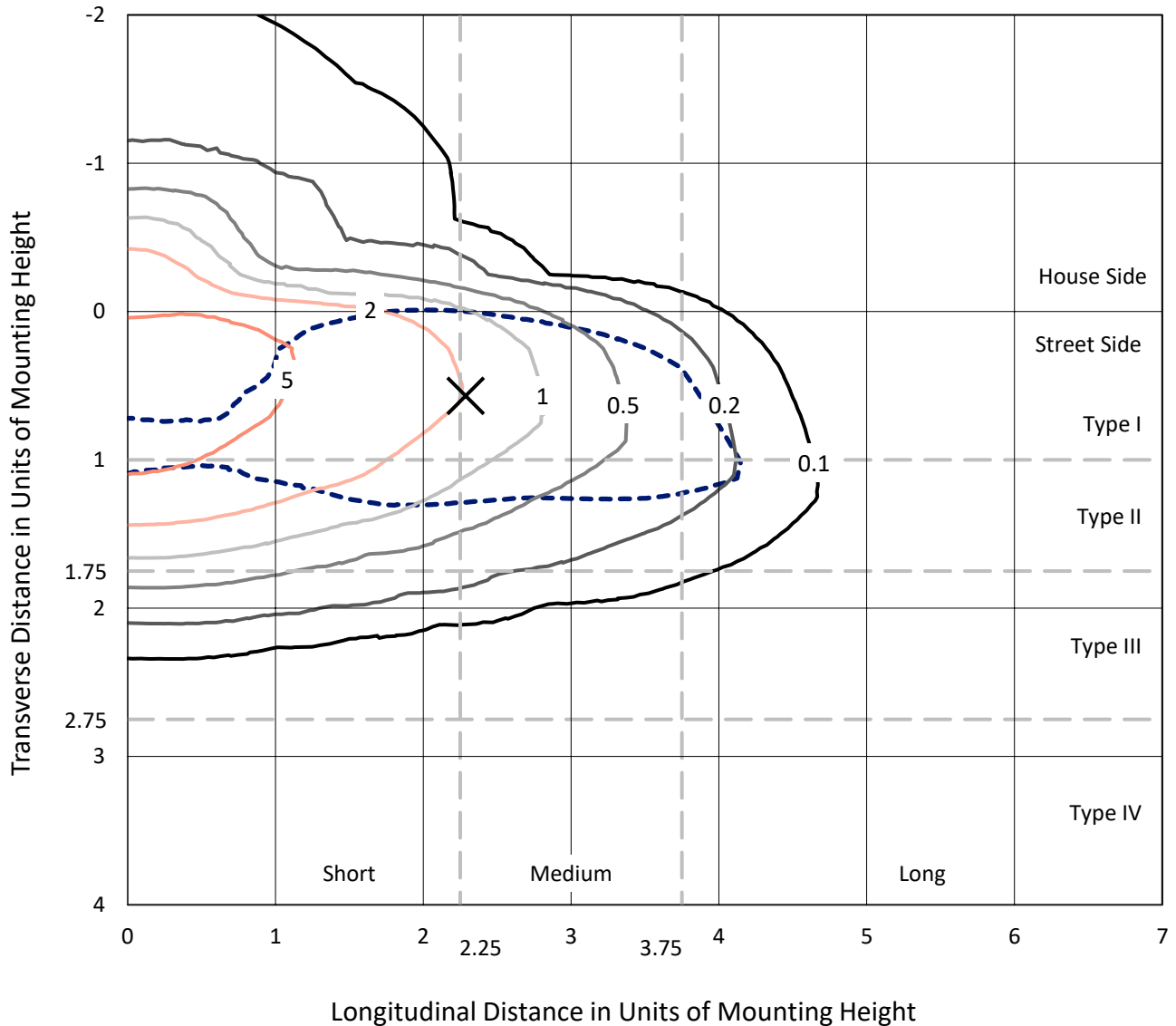
Lumens per Lamp: N/A
Luminaire Lumens: 23493.8 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

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

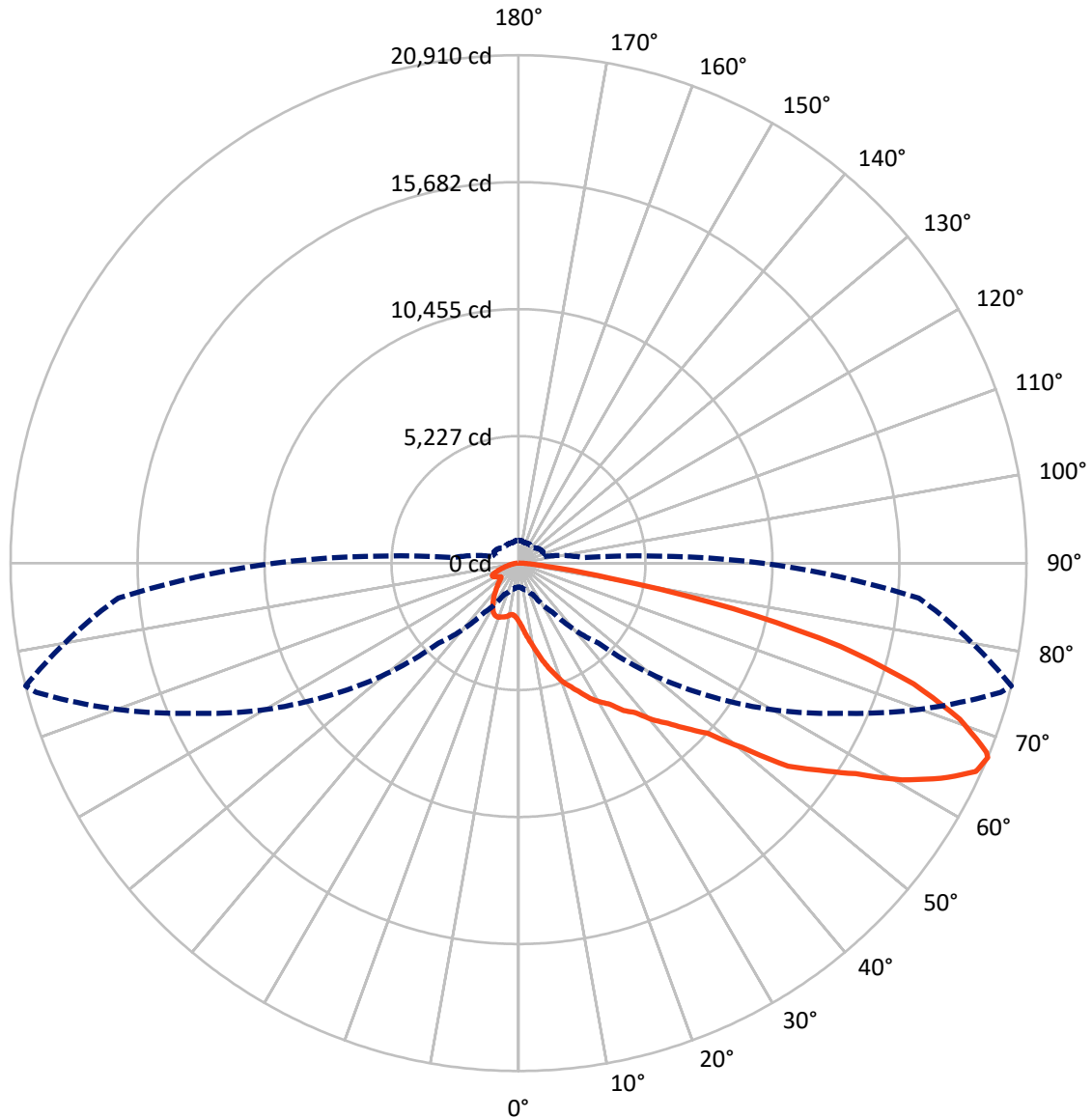
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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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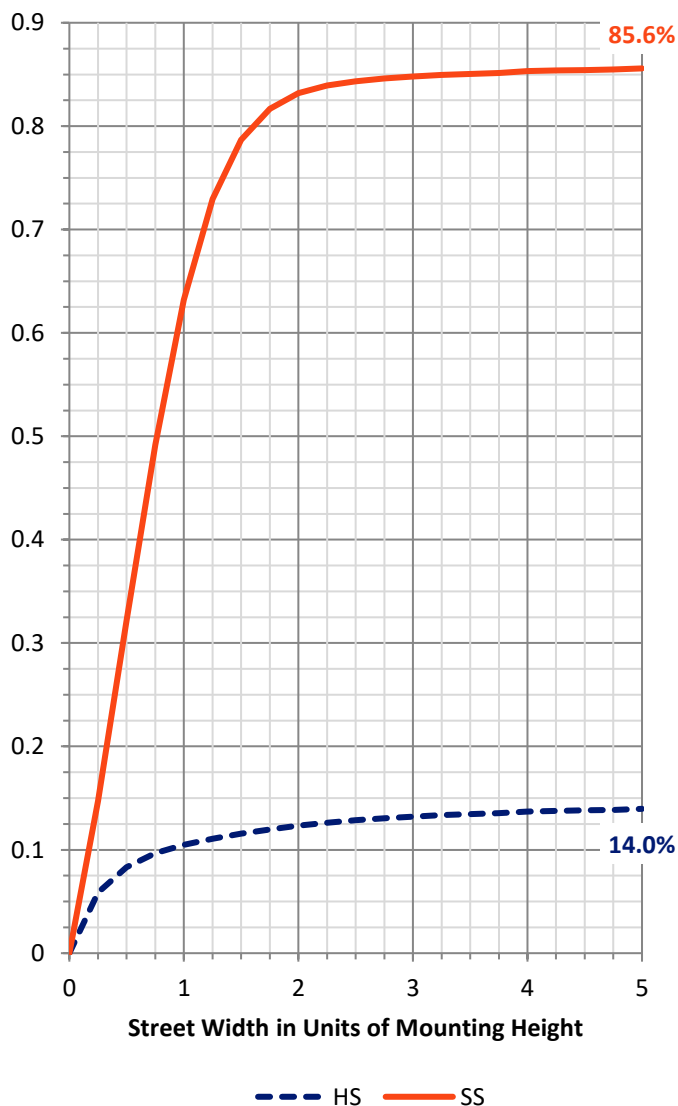
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3342.3	0.0	3342.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	20151.5	0.0	20151.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	23493.8	0.0	23493.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	1.2
10°-20°	1044.5	4.4
20°-30°	1941.9	8.3
30°-40°	3078.3	13.1
40°-50°	4257.6	18.1
50°-60°	5237.1	22.3
60°-70°	4873.3	20.7
70°-80°	2445.4	10.4
80°-90°	337.2	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°	23493.8	100.0
0°-180°	23493.8	100.0

Coefficient of Utilization



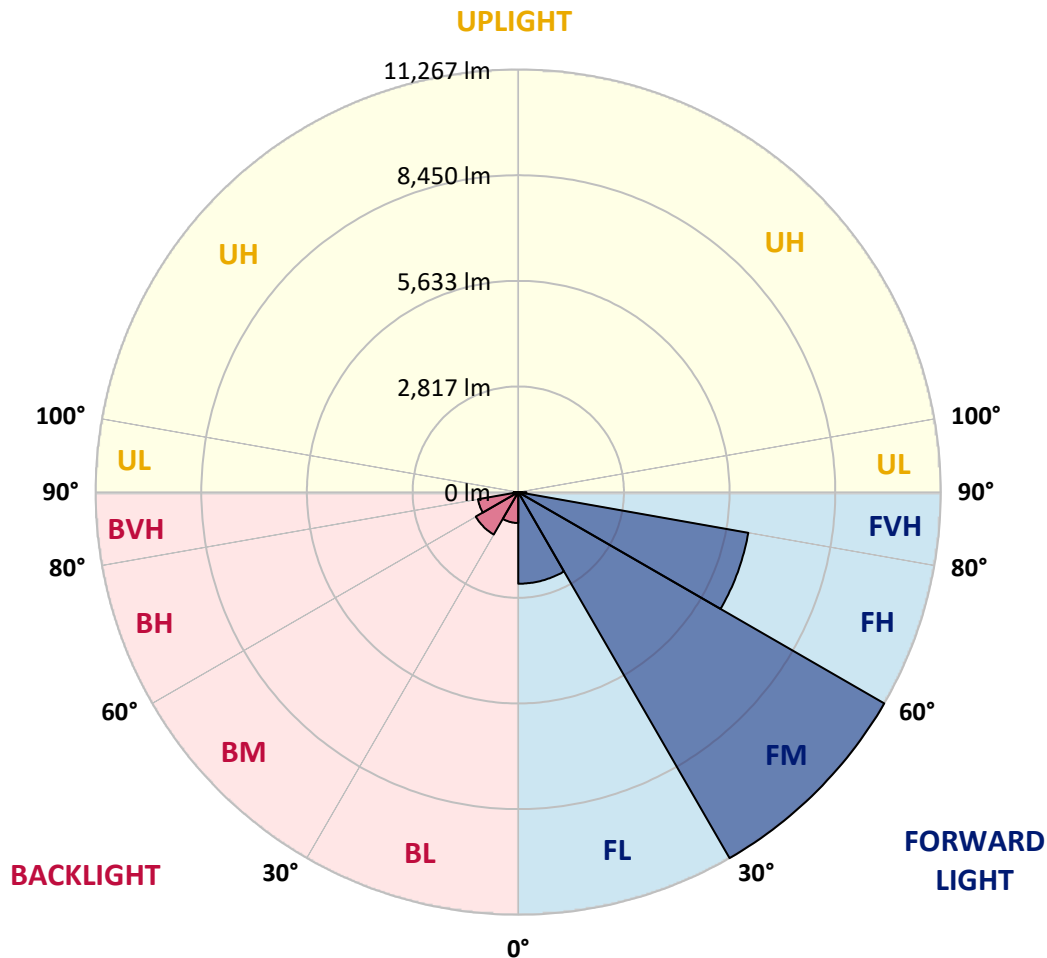
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2441.8	10.4			
FM (30°-60°)	11266.9	48.0			
FH (60°-80°)	6228.0	26.5			G3/7500
FVH (80°-90°)	214.8	0.9			G2/225
BL (0°-30°)	823.1	3.5	B2/1000		
BM (30°-60°)	1306.1	5.6	B2/2500		
BH (60°-80°)	1090.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	122.4	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°	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2
2.5°	3335.9	3295.8	3255.6	3169.9	3140.5	3060.2	2912.9	2749.6	2615.7	2597.0	2503.3
5°	4139.1	4080.2	4066.8	4018.6	3866.0	3710.8	3469.8	3207.4	2880.8	2904.9	2583.6
7.5°	4741.5	4706.7	4634.4	4588.9	4497.9	4291.7	4042.7	3694.7	3279.7	3199.4	2763.0
10°	5196.7	5148.5	5145.8	5105.6	5057.4	4845.9	4655.8	4187.3	3654.5	3544.8	2982.5
12.5°	5426.9	5418.9	5560.8	5560.8	5542.0	5453.7	5127.1	4698.7	4010.6	3973.1	3236.9
15°	5675.9	5609.0	5732.1	5825.8	5874.0	5919.5	5649.1	5196.7	4465.8	4393.5	3510.0
17.5°	5675.9	5670.6	5793.7	5949.0	6200.7	6259.6	6112.3	5654.5	4843.3	4789.7	3809.8
20°	5579.5	5657.2	5742.8	5951.7	6224.8	6463.0	6505.9	6123.0	5260.9	5218.1	4149.8
22.5°	6029.3	5954.3	6042.7	6123.0	6334.5	6696.0	6813.8	6535.3	5700.0	5536.7	4457.7
25°	6784.3	6733.4	6669.2	6551.4	6639.7	6797.7	6977.1	6840.5	6074.8	5892.8	4754.9
27.5°	7520.6	7523.3	7384.0	7127.0	6936.9	6969.0	7180.6	7108.3	6390.7	6310.4	4958.4
30°	8567.4	8503.1	8347.9	7999.8	7627.7	7322.5	7287.6	7357.3	6792.3	6637.1	5250.2
32.5°	9351.9	9365.2	9145.7	8645.0	8136.4	7887.4	7582.2	7611.6	7046.7	6931.6	5483.1
35°	9986.4	9970.3	9815.0	9400.1	8797.7	8497.8	8085.5	7916.8	7638.4	7456.3	5839.2
37.5°	10671.8	10540.6	10288.9	9820.4	9434.9	9019.9	8618.3	8238.1	8031.9	7812.4	6144.4
40°	10947.5	10947.5	10610.2	10396.0	9938.2	9624.9	9365.2	8661.1	8511.2	8468.3	6535.3
42.5°	10752.1	10872.6	10733.4	10489.7	10302.3	9906.1	9836.5	9100.2	9102.9	9017.2	7003.9
45°	10733.4	10567.4	10452.2	10513.8	10425.5	10404.0	10580.7	9707.9	9724.0	9713.3	7633.0
47.5°	10195.2	10120.2	10291.6	10393.3	10465.6	10797.6	11306.3	10433.5	10548.6	10468.3	8358.6
50°	9659.7	9646.4	9753.5	10122.9	10436.2	10982.3	11997.0	11552.6	11930.1	11924.8	9673.1
52.5°	8192.6	8334.5	8754.8	9536.6	10310.3	11234.0	12519.1	12982.3	13702.5	13897.9	10762.8
55°	6789.7	6714.7	7335.8	8471.0	9761.5	11333.1	13102.8	13841.7	14901.9	15043.8	11881.9
57.5°	5282.3	5421.6	5911.5	7001.2	8626.3	10843.1	13531.1	14690.4	16256.7	16366.4	13180.4
60°	3941.0	3959.7	4497.9	5376.0	7116.3	9737.4	13670.4	15560.6	17809.5	18122.7	14540.5
62.5°	2479.2	2591.6	3001.3	3866.0	5357.3	8189.9	13046.6	16088.0	19437.3	19520.3	15911.3
65°	1336.0	1408.3	1716.2	2259.7	3742.9	6195.3	11392.0	15772.1	20203.0	20695.6	16521.7
67°	987.9	1001.3	1143.2	1443.1	2503.3	4663.9	9499.1	14628.8	20551.1	20909.8	16545.8
67.5°	926.4	945.1	1057.5	1295.8	2219.5	4294.4	9003.8	14221.9	20395.8	20781.3	16358.4
70°	792.5	797.8	824.6	891.5	1245.0	2583.6	6131.0	11654.3	18904.5	19274.0	15043.8
72.5°	704.1	709.5	720.2	733.6	843.4	1493.9	3729.5	8969.0	16430.7	17019.7	12979.6
75°	618.5	637.2	642.6	631.8	717.5	971.9	1983.9	6591.5	13402.6	13689.1	10093.5
77.5°	524.8	532.8	543.5	554.2	639.9	725.6	953.1	4449.7	9199.3	9025.2	5459.0
80°	441.8	444.4	452.5	460.5	554.2	554.2	540.8	2404.2	4018.6	3841.9	1844.7
82.5°	315.9	334.7	353.4	374.8	460.5	372.1	353.4	1070.9	1271.7	1210.1	623.8
85°	123.2	149.9	232.9	257.0	291.8	200.8	235.6	463.2	530.1	524.8	232.9
87.5°	21.4	24.1	64.3	99.1	107.1	69.6	112.4	166.0	198.1	214.2	85.7
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°	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2	2404.2
2.5°	2425.6	2342.6	2243.6	2144.5	2080.3	1978.5	1970.5	1908.9	1900.9	1879.5	1890.2
5°	2444.4	2345.3	2144.5	1986.6	1914.3	1855.4	1868.8	1842.0	1834.0	1820.6	1799.2
7.5°	2591.6	2396.2	2096.3	1959.8	1906.2	1879.5	1879.5	1847.3	1823.3	1839.3	1855.4
10°	2688.0	2420.3	2133.8	1997.3	1954.4	1895.5	1917.0	1876.8	1890.2	1858.1	1858.1
12.5°	2843.3	2556.8	2211.5	2053.5	1983.9	1930.3	1951.8	1906.2	1895.5	1898.2	1890.2
15°	3052.1	2647.9	2246.3	2085.6	2037.4	1970.5	1954.4	1914.3	1874.1	1860.7	1876.8
17.5°	3247.6	2760.3	2270.4	2104.4	2026.7	1951.8	1933.0	1882.2	1868.8	1828.6	1796.5
20°	3480.5	2894.2	2302.5	2120.4	1986.6	1911.6	1863.4	1812.5	1767.0	1742.9	1753.6
22.5°	3635.8	2963.8	2318.6	2088.3	1927.7	1858.1	1756.3	1721.5	1657.3	1630.5	1609.1
25°	3890.1	3049.5	2278.4	2000.0	1823.3	1710.8	1619.8	1571.6	1526.1	1491.3	1480.6
27.5°	3954.4	3113.7	2184.7	1850.0	1657.3	1539.5	1461.8	1402.9	1373.5	1319.9	1309.2
30°	4141.8	3049.5	2045.5	1668.0	1499.3	1378.8	1301.2	1258.3	1188.7	1175.3	1145.9
32.5°	4262.3	3068.2	1868.8	1491.3	1317.2	1210.1	1159.3	1116.4	1097.7	1033.4	1017.4
35°	4463.1	3003.9	1689.4	1327.9	1167.3	1084.3	1041.5	1028.1	966.5	937.1	910.3
37.5°	4591.6	2966.5	1510.0	1143.2	1004.0	969.2	982.6	926.4	851.4	795.2	776.4
40°	4816.5	2953.1	1306.5	990.6	891.5	883.5	926.4	819.3	682.7	634.5	607.8
42.5°	5140.4	2862.0	1148.6	854.1	803.2	838.0	846.0	682.7	605.1	564.9	546.2
45°	5451.0	2880.8	993.3	706.8	698.8	749.6	730.9	578.3	532.8	503.3	519.4
47.5°	6048.1	2974.5	840.7	589.0	629.2	677.4	567.6	516.7	473.9	452.5	455.1
50°	6971.7	3065.5	706.8	538.1	594.4	613.1	487.3	468.5	465.9	423.0	420.3
52.5°	7525.9	3030.7	682.7	602.4	637.2	613.1	530.1	516.7	495.3	476.6	455.1
55°	8406.8	3132.5	733.6	704.1	722.9	589.0	594.4	589.0	572.9	524.8	538.1
57.5°	9108.2	3199.4	800.5	787.1	776.4	613.1	621.1	623.8	613.1	591.7	610.4
60°	10072.1	3333.3	870.1	872.8	875.5	666.7	680.0	696.1	693.4	685.4	690.7
62.5°	10663.7	3271.7	947.8	990.6	977.2	776.4	773.7	784.5	784.5	797.8	805.9
65°	10575.4	3044.1	987.9	1095.0	1025.4	856.7	856.7	862.1	864.8	891.5	894.2
67°	10045.3	2637.2	966.5	1111.1	1025.4	888.9	888.9	894.2	875.5	945.1	923.7
67.5°	9799.0	2516.7	947.8	1097.7	1017.4	886.2	886.2	888.9	872.8	939.7	918.3
70°	8521.9	1868.8	816.6	971.9	942.4	862.1	862.1	846.0	832.6	921.0	902.3
72.5°	7274.3	1357.4	655.9	827.3	851.4	830.0	835.3	795.2	757.7	819.3	803.2
75°	5571.5	998.6	511.4	637.2	720.2	776.4	811.2	709.5	661.3	677.4	647.9
77.5°	3108.4	650.6	404.3	471.2	548.8	722.9	779.1	639.9	540.8	522.1	522.1
80°	1054.9	380.2	297.2	350.7	377.5	639.9	728.2	519.4	425.7	407.0	393.6
82.5°	398.9	232.9	203.5	241.0	241.0	506.0	594.4	398.9	321.3	415.0	423.0
85°	182.1	139.2	133.9	139.2	139.2	310.6	420.3	259.7	289.1	249.0	219.5
87.5°	72.3	66.9	61.6	58.9	48.2	53.5	144.6	69.6	131.2	34.8	32.1
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)