

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: P476855

Luminaire Tested: **IFLD-L-SA7A-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476855
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

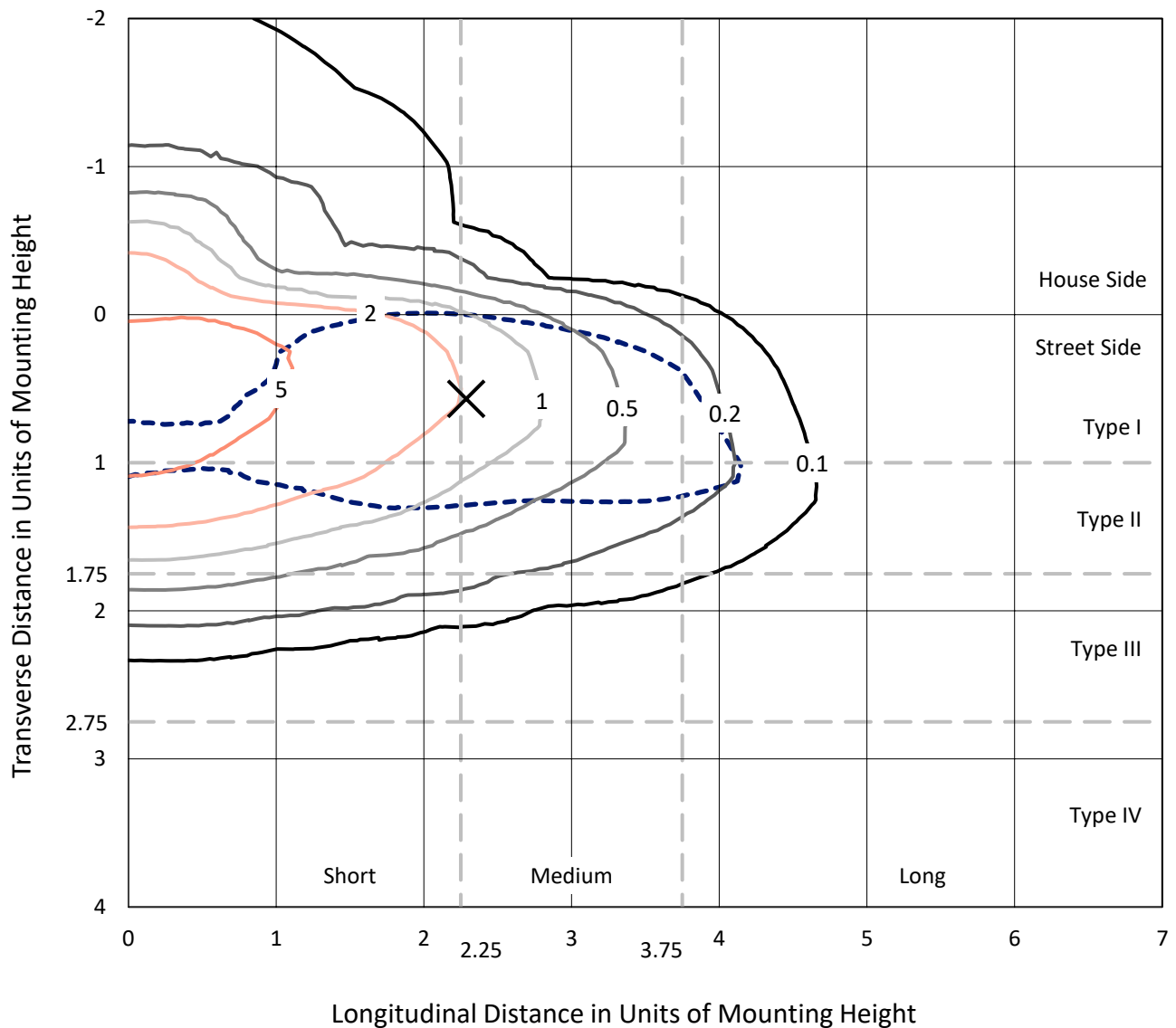
Lumens per Lamp: N/A
Luminaire Lumens: 23185.5 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 217.6
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

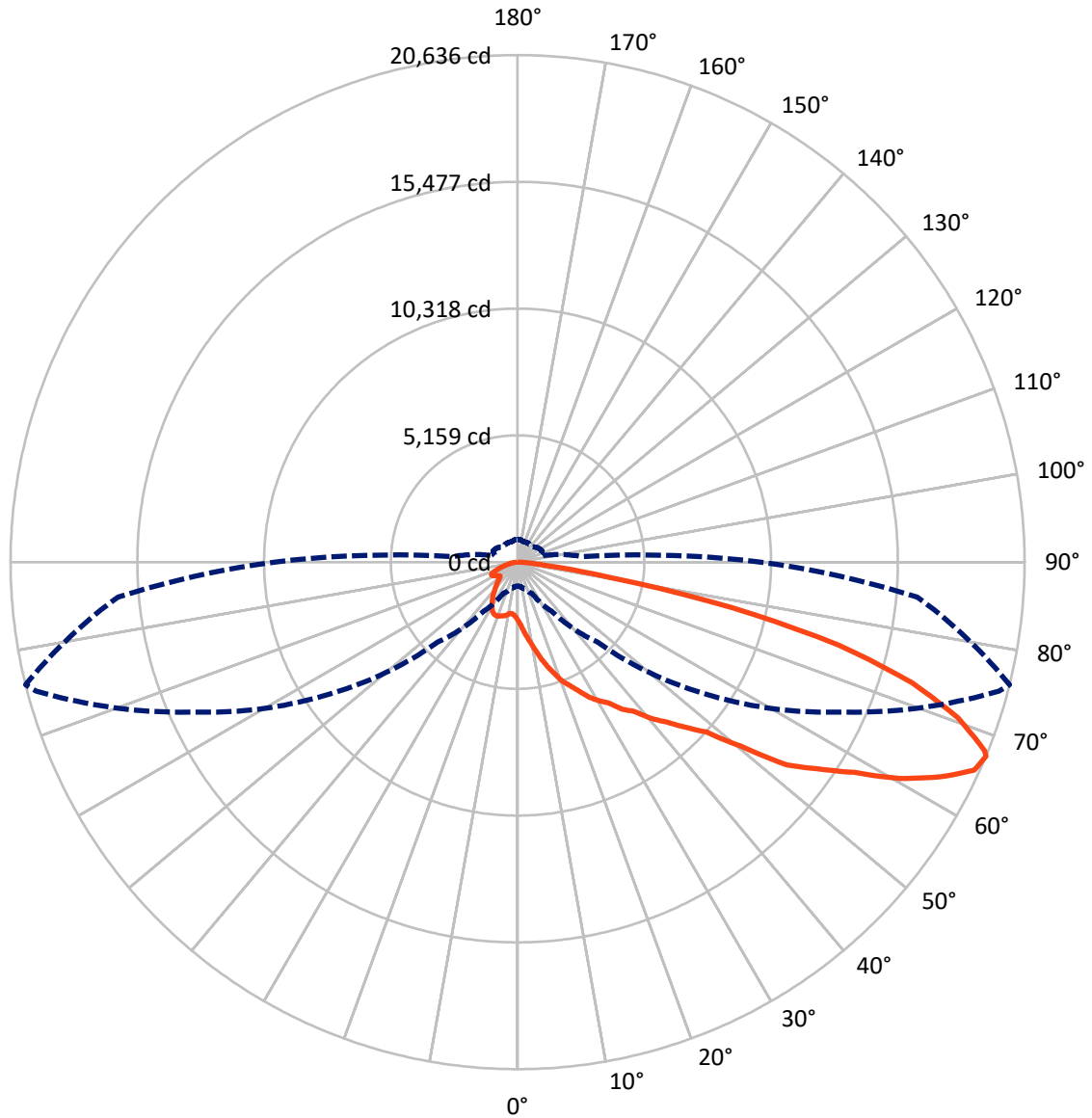
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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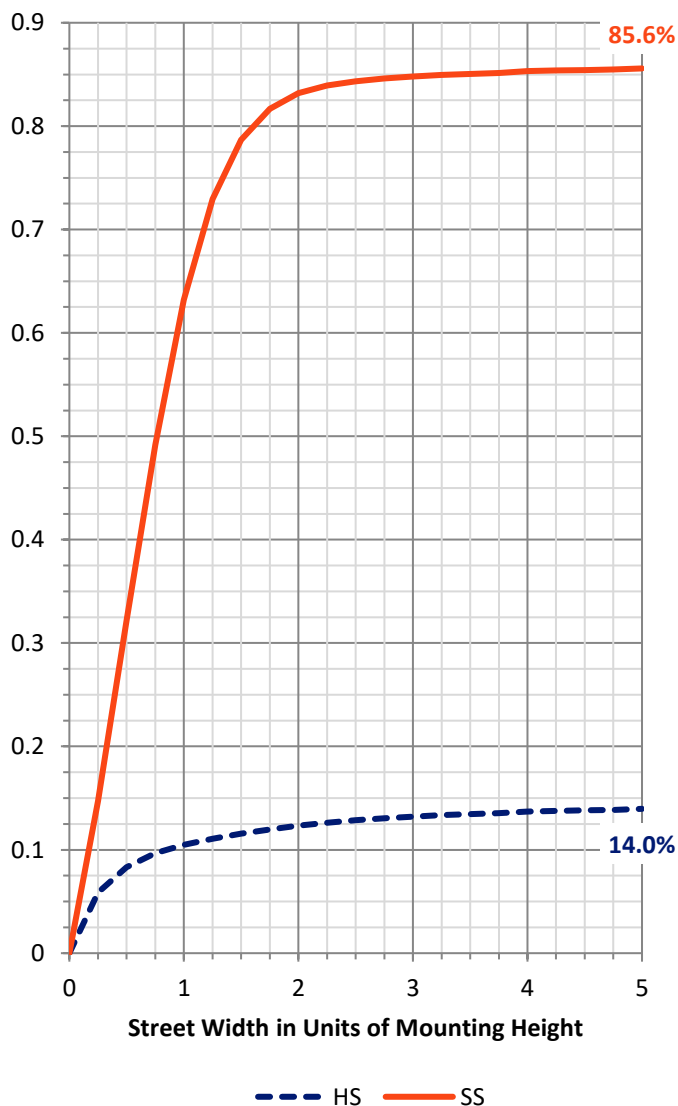
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3298.4	0.0	3298.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19887.1	0.0	19887.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	23185.5	0.0	23185.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.2
10°-20°	1030.8	4.4
20°-30°	1916.4	8.3
30°-40°	3037.9	13.1
40°-50°	4201.7	18.1
50°-60°	5168.4	22.3
60°-70°	4809.4	20.7
70°-80°	2413.3	10.4
80°-90°	332.8	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°	23185.5	100.0
0°-180°	23185.5	100.0

Coefficient of Utilization



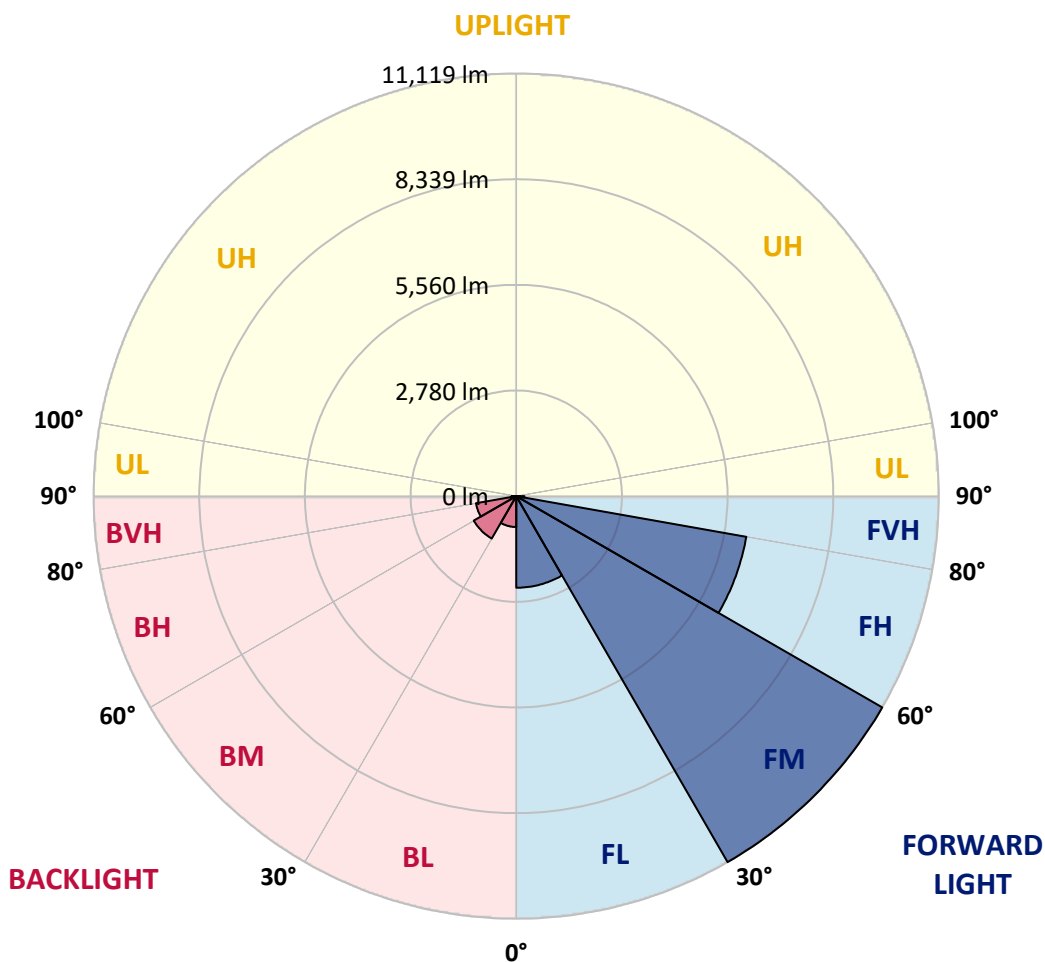
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2409.8	10.4			
FM (30°-60°)	11119.0	48.0			
FH (60°-80°)	6146.3	26.5			G3/7500
FVH (80°-90°)	212.0	0.9			G2/225
BL (0°-30°)	812.3	3.5	B2/1000		
BM (30°-60°)	1289.0	5.6	B2/2500		
BH (60°-80°)	1076.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	120.8	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°	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7
2.5°	3292.2	3252.5	3212.9	3128.4	3099.3	3020.0	2874.7	2713.5	2581.4	2562.9	2470.4
5°	4084.8	4026.7	4013.5	3965.9	3815.3	3662.1	3424.3	3165.3	2843.0	2866.8	2549.7
7.5°	4679.3	4645.0	4573.6	4528.7	4438.9	4235.4	3989.7	3646.2	3236.7	3157.4	2726.7
10°	5128.5	5080.9	5078.3	5038.7	4991.1	4782.4	4594.8	4132.4	3606.6	3498.3	2943.4
12.5°	5355.7	5347.8	5487.8	5487.8	5469.3	5382.1	5059.8	4637.0	3958.0	3921.0	3194.4
15°	5601.4	5535.4	5656.9	5749.4	5797.0	5841.9	5575.0	5128.5	4407.2	4335.8	3463.9
17.5°	5601.4	5596.2	5717.7	5870.9	6119.3	6177.4	6032.1	5580.3	4779.7	4726.9	3759.8
20°	5506.3	5582.9	5667.5	5873.6	6143.1	6378.2	6420.5	6042.7	5191.9	5149.6	4095.4
22.5°	5950.2	5876.2	5963.4	6042.7	6251.4	6608.1	6724.4	6449.6	5625.2	5464.0	4399.2
25°	6695.3	6645.1	6581.7	6465.4	6552.6	6708.5	6885.5	6750.8	5995.1	5815.5	4692.5
27.5°	7421.9	7424.6	7287.2	7033.5	6845.9	6877.6	7086.4	7015.0	6306.9	6227.6	4893.3
30°	8455.0	8391.6	8238.3	7894.9	7527.6	7226.4	7192.0	7260.7	6703.2	6550.0	5181.3
32.5°	9229.2	9242.4	9025.7	8531.6	8029.6	7783.9	7482.7	7511.7	6954.2	6840.6	5411.2
35°	9855.4	9839.5	9686.3	9276.7	8682.2	8386.3	7979.4	7813.0	7538.2	7358.5	5762.6
37.5°	10531.8	10402.3	10153.9	9691.6	9311.1	8901.5	8505.2	8130.0	7926.6	7709.9	6063.8
40°	10803.9	10803.9	10471.0	10259.6	9807.8	9498.7	9242.4	8547.5	8399.5	8357.2	6449.6
42.5°	10611.0	10729.9	10592.5	10352.1	10167.1	9776.1	9707.4	8980.8	8983.4	8898.9	6912.0
45°	10592.5	10428.7	10315.1	10375.9	10288.7	10267.5	10441.9	9580.6	9596.4	9585.9	7532.9
47.5°	10061.5	9987.5	10156.6	10257.0	10328.3	10655.9	11158.0	10296.6	10410.2	10331.0	8248.9
50°	9533.0	9519.8	9625.5	9990.1	10299.3	10838.3	11839.7	11401.0	11773.6	11768.3	9546.2
52.5°	8085.1	8225.1	8640.0	9411.5	10175.1	11086.6	12354.9	12812.0	13522.7	13715.6	10621.6
55°	6700.6	6626.6	7239.6	8359.9	9633.4	11184.4	12930.9	13660.1	14706.4	14846.5	11726.0
57.5°	5213.0	5350.4	5834.0	6909.3	8513.1	10700.9	13353.6	14497.7	16043.4	16151.7	13007.5
60°	3889.3	3907.8	4438.9	5305.5	7022.9	9609.6	13491.0	15356.4	17575.8	17885.0	14349.7
62.5°	2446.7	2557.6	2961.9	3815.3	5287.0	8082.5	12875.4	15876.9	19182.3	19264.2	15702.5
65°	1318.5	1389.8	1693.6	2230.0	3693.8	6114.0	11242.5	15565.1	19938.0	20424.1	16305.0
67°	975.0	988.2	1128.2	1424.1	2470.4	4602.7	9374.5	14436.9	20281.4	20635.5	16328.7
67.5°	914.2	932.7	1043.7	1278.8	2190.4	4238.1	8885.7	14035.3	20128.2	20508.7	16143.8
70°	782.1	787.4	813.8	879.8	1228.6	2549.7	6050.6	11501.4	18656.5	19021.1	14846.5
72.5°	694.9	700.2	710.7	724.0	832.3	1474.3	3680.6	8851.3	16215.1	16796.4	12809.3
75°	610.3	628.8	634.1	623.6	708.1	959.1	1957.9	6505.1	13226.8	13509.5	9961.1
77.5°	517.9	525.8	536.4	546.9	631.5	716.0	940.6	4391.3	9078.6	8906.8	5387.4
80°	436.0	438.6	446.5	454.5	546.9	546.9	533.7	2372.7	3965.9	3791.5	1820.5
82.5°	311.8	330.3	348.8	369.9	454.5	367.3	348.8	1056.9	1255.0	1194.3	615.6
85°	121.5	148.0	229.9	253.7	288.0	198.2	232.5	457.1	523.2	517.9	229.9
87.5°	21.1	23.8	63.4	97.8	105.7	68.7	111.0	163.8	195.5	211.4	84.6
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°	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7	2372.7
2.5°	2393.8	2311.9	2214.2	2116.4	2053.0	1952.6	1944.7	1883.9	1876.0	1854.8	1865.4
5°	2412.3	2314.6	2116.4	1960.5	1889.2	1831.0	1844.2	1817.8	1809.9	1796.7	1775.6
7.5°	2557.6	2364.8	2068.8	1934.1	1881.2	1854.8	1854.8	1823.1	1799.3	1815.2	1831.0
10°	2652.8	2388.5	2105.8	1971.1	1928.8	1870.7	1891.8	1852.2	1865.4	1833.7	1833.7
12.5°	2806.0	2523.3	2182.4	2026.6	1957.9	1905.0	1926.2	1881.2	1870.7	1873.3	1865.4
15°	3012.1	2613.1	2216.8	2058.3	2010.7	1944.7	1928.8	1889.2	1849.5	1836.3	1852.2
17.5°	3205.0	2724.1	2240.6	2076.8	2000.1	1926.2	1907.7	1857.5	1844.2	1804.6	1772.9
20°	3434.8	2856.2	2272.3	2092.6	1960.5	1886.5	1839.0	1788.8	1743.8	1720.1	1730.6
22.5°	3588.1	2924.9	2288.1	2060.9	1902.4	1833.7	1733.3	1698.9	1635.5	1609.1	1588.0
25°	3839.1	3009.5	2248.5	1973.7	1799.3	1688.4	1598.5	1551.0	1506.0	1471.7	1461.1
27.5°	3902.5	3072.9	2156.0	1825.8	1635.5	1519.3	1442.6	1384.5	1355.4	1302.6	1292.0
30°	4087.5	3009.5	2018.6	1646.1	1479.6	1360.7	1284.1	1241.8	1173.1	1159.9	1130.9
32.5°	4206.4	3027.9	1844.2	1471.7	1300.0	1194.3	1144.1	1101.8	1083.3	1019.9	1004.0
35°	4404.5	2964.5	1667.2	1310.5	1152.0	1070.1	1027.8	1014.6	953.8	924.8	898.3
37.5°	4531.4	2927.5	1490.2	1128.2	990.8	956.5	969.7	914.2	840.2	784.7	766.2
40°	4753.3	2914.3	1289.4	977.6	879.8	871.9	914.2	808.5	673.8	626.2	599.8
42.5°	5073.0	2824.5	1133.5	842.9	792.7	827.0	834.9	673.8	597.1	557.5	539.0
45°	5379.5	2843.0	980.3	697.5	689.6	739.8	721.3	570.7	525.8	496.7	512.6
47.5°	5968.7	2935.5	829.6	581.3	620.9	668.5	560.1	509.9	467.7	446.5	449.2
50°	6880.3	3025.3	697.5	531.1	586.6	605.1	480.9	462.4	459.7	417.5	414.8
52.5°	7427.2	2991.0	673.8	594.5	628.8	605.1	523.2	509.9	488.8	470.3	449.2
55°	8296.5	3091.4	724.0	694.9	713.4	581.3	586.6	581.3	565.4	517.9	531.1
57.5°	8988.7	3157.4	790.0	776.8	766.2	605.1	613.0	615.6	605.1	583.9	602.4
60°	9939.9	3289.5	858.7	861.4	864.0	657.9	671.1	687.0	684.3	676.4	681.7
62.5°	10523.8	3228.8	935.3	977.6	964.4	766.2	763.6	774.2	774.2	787.4	795.3
65°	10436.6	3004.2	975.0	1080.7	1012.0	845.5	845.5	850.8	853.4	879.8	882.5
67°	9913.5	2602.6	953.8	1096.5	1012.0	877.2	877.2	882.5	864.0	932.7	911.6
67.5°	9670.4	2483.7	935.3	1083.3	1004.0	874.6	874.6	877.2	861.4	927.4	906.3
70°	8410.1	1844.2	805.9	959.1	930.1	850.8	850.8	834.9	821.7	908.9	890.4
72.5°	7178.8	1339.6	647.3	816.4	840.2	819.1	824.4	784.7	747.7	808.5	792.7
75°	5498.4	985.5	504.7	628.8	710.7	766.2	800.6	700.2	652.6	668.5	639.4
77.5°	3067.6	642.1	399.0	465.0	541.6	713.4	768.9	631.5	533.7	515.2	515.2
80°	1041.0	375.2	293.3	346.1	372.5	631.5	718.7	512.6	420.1	401.6	388.4
82.5°	393.7	229.9	200.8	237.8	237.8	499.4	586.6	393.7	317.1	409.5	417.5
85°	179.7	137.4	132.1	137.4	137.4	306.5	414.8	256.3	285.4	245.7	216.7
87.5°	71.3	66.1	60.8	58.1	47.6	52.8	142.7	68.7	129.5	34.3	31.7
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)