

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: P476734

Luminaire Tested: **IFLD-M-SA4B-827-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476734
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

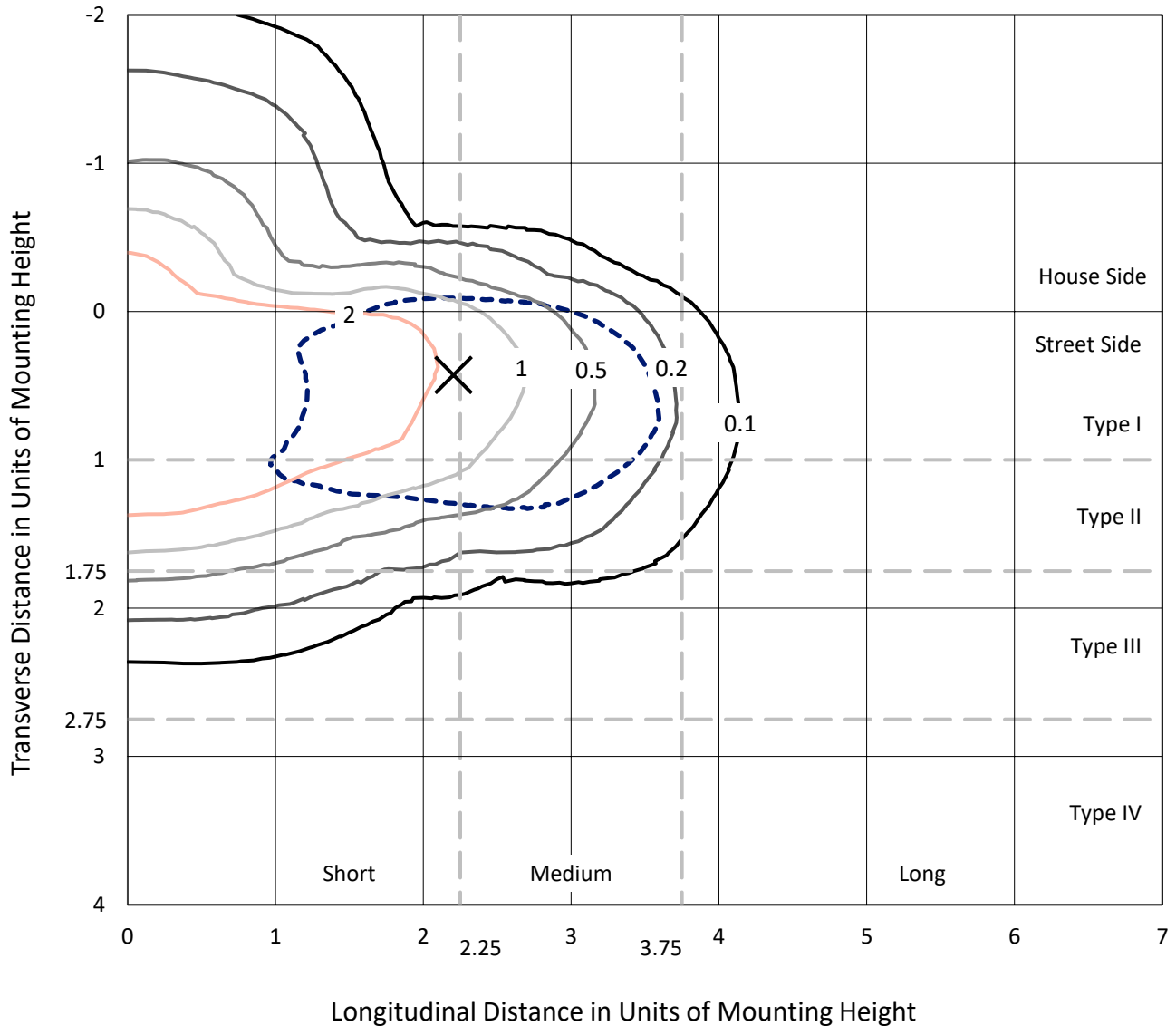
Lumens per Lamp: N/A
Luminaire Lumens: 16769 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

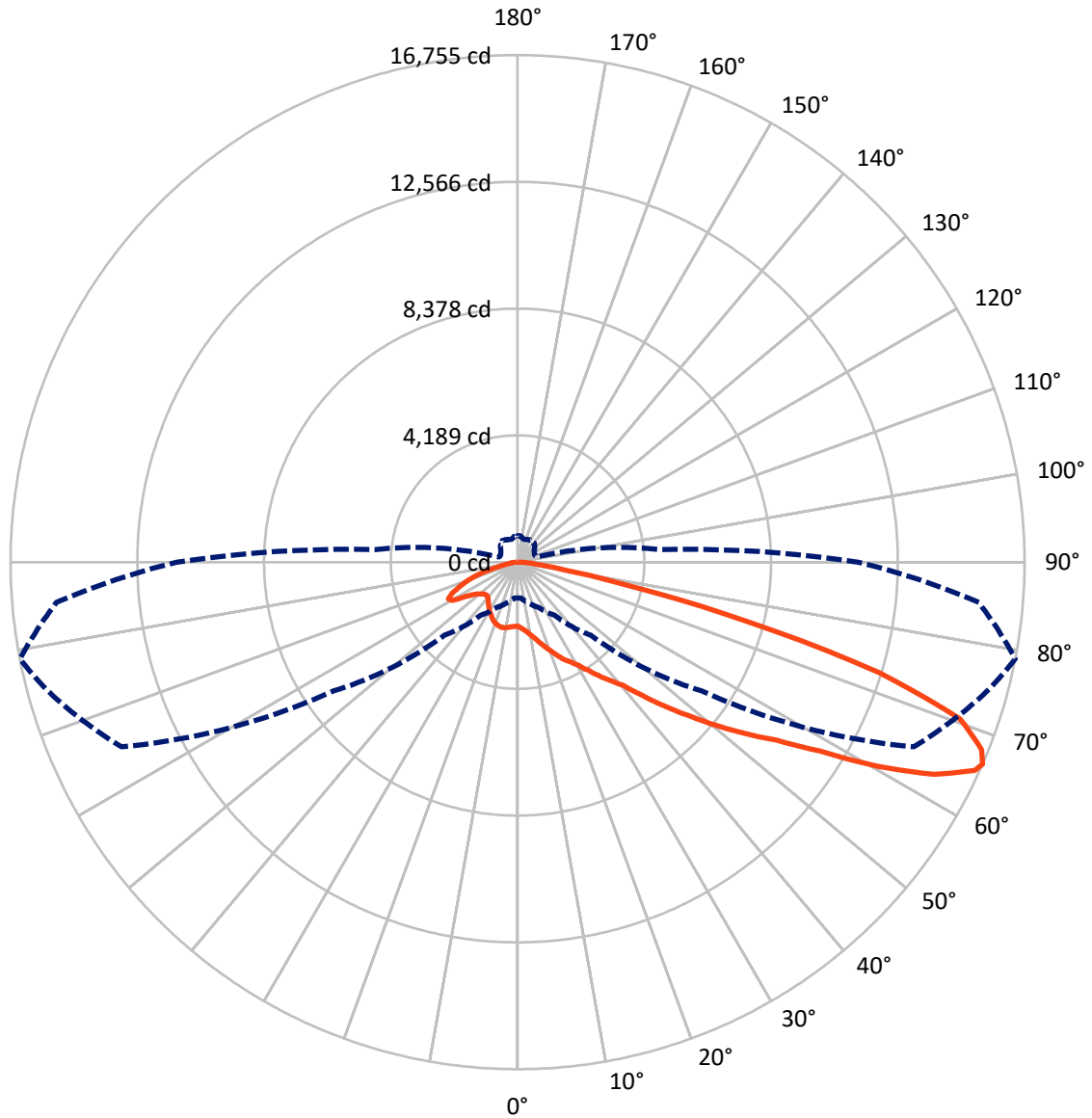
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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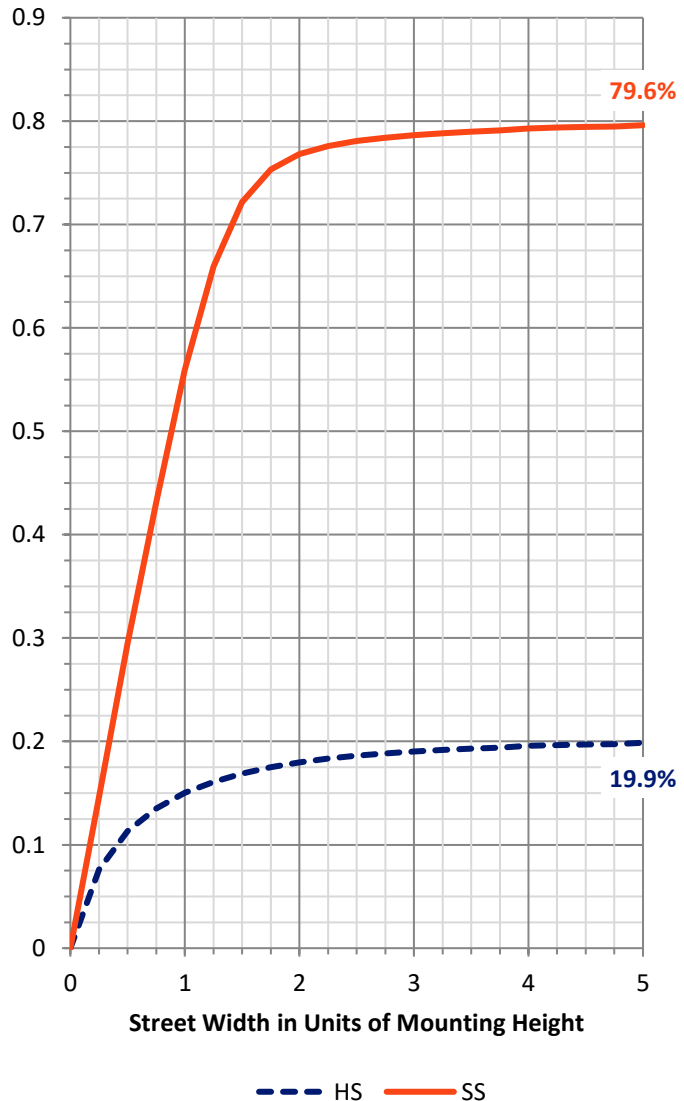
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3386.3	0.0	3386.3
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	13382.7	0.0	13382.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	16769.0	0.0	16769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.2	1.2
10°-20°	642.9	3.8
20°-30°	1103.6	6.6
30°-40°	1704.9	10.2
40°-50°	2730.8	16.3
50°-60°	4077.3	24.3
60°-70°	4189.4	25.0
70°-80°	1857.1	11.1
80°-90°	254.8	1.5
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°	16769.0	100.0
0°-180°	16769.0	100.0

Coefficient of Utilization



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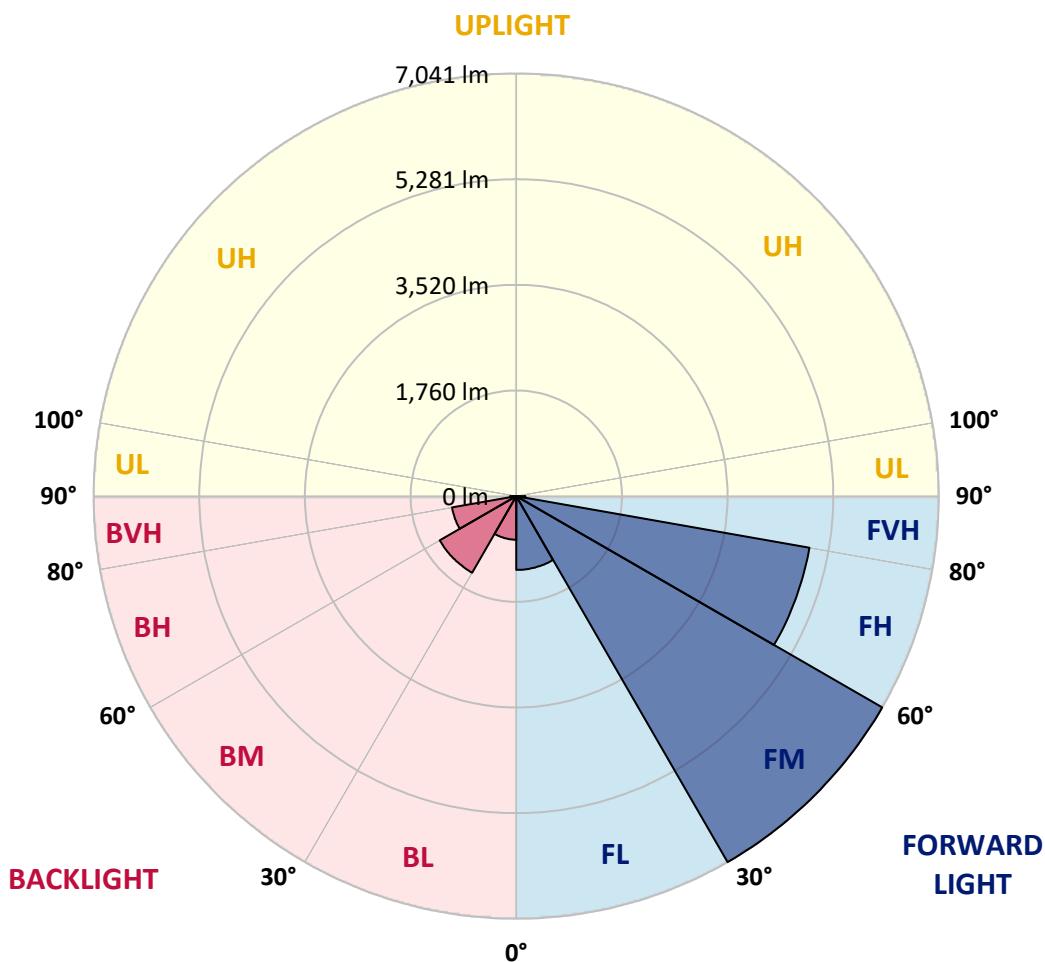
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.3	7.3			
FM (30°-60°)	7040.7	42.0			
FH (60°-80°)	4959.9	29.6			G2/5000
FVH (80°-90°)	152.8	0.9			G2/225
BL (0°-30°)	725.5	4.3	B2/1000		
BM (30°-60°)	1472.2	8.8	B2/2500		
BH (60°-80°)	1086.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	102.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5
2.5°	2252.1	2254.0	2254.0	2246.6	2248.4	2254.0	2233.7	2189.4	2189.4	2182.0	2169.1
5°	2390.4	2381.2	2368.3	2370.2	2362.8	2362.8	2340.6	2298.2	2261.3	2246.6	2207.8
7.5°	2408.9	2418.1	2416.3	2438.4	2449.5	2449.5	2460.5	2425.5	2370.2	2335.1	2296.4
10°	2445.8	2421.8	2420.0	2471.6	2488.2	2526.9	2571.2	2552.8	2506.6	2456.8	2405.2
12.5°	2467.9	2482.7	2482.7	2508.5	2547.2	2604.4	2681.9	2716.9	2645.0	2593.3	2514.0
15°	2501.1	2480.8	2539.8	2562.0	2635.8	2676.3	2787.0	2877.4	2829.4	2766.7	2641.3
17.5°	2515.9	2503.0	2536.2	2576.7	2702.2	2763.0	2897.7	3023.1	2982.5	2941.9	2812.8
20°	2591.5	2589.6	2604.4	2637.6	2728.0	2847.9	3015.7	3189.1	3203.9	3130.1	2954.9
22.5°	2775.9	2752.0	2752.0	2739.1	2777.8	2901.4	3128.2	3368.0	3434.4	3347.7	3115.3
25°	2945.6	2978.8	2958.5	2899.5	2884.8	2949.3	3209.4	3558.0	3646.5	3565.4	3333.0
27.5°	3163.3	3174.3	3209.4	3130.1	3028.6	3048.9	3297.9	3665.0	3847.6	3738.8	3456.6
30°	3476.8	3456.6	3449.2	3360.6	3227.8	3200.2	3399.4	3821.8	4111.3	3958.3	3602.3
32.5°	3689.0	3738.8	3736.9	3615.2	3454.7	3393.8	3524.8	3969.3	4393.5	4251.5	3871.6
35°	4109.5	4161.1	4120.6	3941.7	3753.5	3631.8	3705.6	4161.1	4716.3	4605.7	4100.3
37.5°	4646.2	4768.0	4681.3	4351.1	4085.5	3952.7	3956.4	4369.6	5046.5	4956.1	4345.6
40°	5017.0	5181.1	5061.2	4751.4	4469.2	4343.7	4293.9	4616.7	5441.2	5345.3	4729.2
42.5°	5476.3	5612.7	5550.0	5243.9	4913.7	4806.7	4707.1	5029.9	6044.4	6000.1	5221.7
45°	5978.0	6042.5	6022.2	5828.6	5461.5	5424.6	5205.1	5574.0	6754.5	6772.9	5837.8
47.5°	6444.6	6479.7	6518.4	6378.2	6149.5	6180.8	5778.8	6156.9	7444.3	7566.1	6523.9
50°	6564.5	6684.4	6774.8	6868.8	6918.6	7130.8	6411.4	6872.5	8237.4	8473.5	7287.5
52.5°	6442.8	6433.5	6708.4	7003.5	7501.5	7946.0	7272.8	7761.6	8938.3	9405.0	7986.6
55°	5889.4	5871.0	6313.6	6704.7	7676.7	8399.8	8503.0	8945.7	9785.0	10391.8	8932.8
57.5°	4921.1	4806.7	5290.0	5931.8	7296.8	8449.6	9738.8	10703.5	11087.2	11778.8	10377.0
60°	3307.1	3259.2	3722.2	4487.6	5924.5	7743.1	10478.5	12904.0	12922.4	13700.8	12618.1
62.5°	2036.3	2045.5	2342.5	2916.1	4148.2	6138.4	10159.4	14661.8	14665.4	15445.7	14462.6
65°	1331.7	1337.2	1577.0	1894.3	2591.5	4163.0	8401.6	14800.1	15877.3	16602.2	15307.3
66°	1186.0	1187.8	1394.4	1652.7	2147.0	3406.8	7420.3	14440.4	16150.3	16755.2	15296.3
67.5°	999.7	1023.7	1189.7	1388.9	1674.8	2447.6	5887.6	13400.1	16010.1	16541.3	14949.5
70°	782.1	795.0	925.9	1128.8	1256.1	1416.6	3499.0	10923.0	14654.4	15515.8	13687.9
72.5°	627.1	638.2	737.8	916.7	1020.0	933.3	1905.3	7925.7	11575.9	12494.5	10766.2
75°	529.4	531.2	579.2	721.2	839.2	700.9	1014.5	5087.1	7427.7	7855.6	6595.9
77.5°	427.9	435.3	468.5	549.7	675.1	551.5	605.0	2849.7	3729.5	3760.9	3048.9
80°	348.6	352.3	372.6	400.3	514.6	407.6	409.5	1390.7	1599.2	1562.3	1239.5
82.5°	274.8	278.5	302.5	297.0	378.1	291.4	254.5	669.5	735.9	721.2	569.9
85°	154.9	154.9	237.9	237.9	239.8	184.4	154.9	315.4	389.2	363.4	267.4
87.5°	49.8	51.6	71.9	75.6	119.9	83.0	75.6	118.0	184.4	162.3	95.9
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°	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5	2117.5
2.5°	2161.7	2132.2	2119.3	2076.9	2065.8	2038.1	2025.2	2008.6	2003.1	1979.1	2001.3
5°	2178.3	2169.1	2117.5	2064.0	2023.4	2004.9	1977.3	1940.4	1936.7	1903.5	1899.8
7.5°	2248.4	2217.1	2126.7	2069.5	1988.3	1942.2	1881.4	1862.9	1838.9	1827.9	1851.9
10°	2357.2	2277.9	2143.3	1999.4	1899.8	1844.5	1800.2	1787.3	1789.1	1781.8	1770.7
12.5°	2434.7	2359.1	2115.6	1940.4	1811.3	1757.8	1754.1	1767.0	1787.3	1778.1	1791.0
15°	2545.4	2403.4	2095.3	1842.6	1739.3	1724.6	1722.7	1761.5	1759.6	1759.6	1757.8
17.5°	2648.7	2447.6	2021.5	1757.8	1663.7	1674.8	1687.7	1685.9	1704.3	1711.7	1724.6
20°	2779.6	2499.3	1918.3	1672.9	1606.5	1602.9	1601.0	1602.9	1621.3	1632.4	1623.1
22.5°	2894.0	2510.3	1831.6	1591.8	1538.3	1523.5	1499.6	1523.5	1514.3	1518.0	1529.1
25°	2993.6	2512.2	1708.0	1530.9	1470.0	1436.8	1418.4	1416.6	1400.0	1398.1	1398.1
27.5°	3076.6	2449.5	1599.2	1446.1	1388.9	1357.5	1355.7	1335.4	1293.0	1265.3	1269.0
30°	3141.1	2401.5	1523.5	1372.3	1317.0	1311.4	1294.8	1248.7	1193.4	1158.3	1158.3
32.5°	3255.5	2305.6	1420.2	1296.7	1269.0	1261.6	1222.9	1182.3	1130.7	1097.5	1091.9
35°	3340.4	2217.1	1352.0	1232.1	1219.2	1204.4	1171.2	1127.0	1112.2	1104.8	1110.4
37.5°	3436.3	2117.5	1269.0	1176.8	1189.7	1162.0	1123.3	1103.0	1154.6	1141.7	1147.3
40°	3589.4	2047.4	1187.8	1143.6	1156.5	1125.1	1075.3	1068.0	1132.5	1086.4	1075.3
42.5°	3869.7	2045.5	1138.0	1093.8	1103.0	1079.0	1034.8	1031.1	1056.9	1001.6	985.0
45°	4218.3	2110.1	1101.2	1056.9	1049.5	1045.8	1031.1	1014.5	992.3	920.4	901.9
47.5°	4635.2	2215.2	1093.8	1001.6	1010.8	1042.1	1023.7	981.3	924.1	878.0	868.7
50°	5140.6	2432.9	1075.3	961.0	977.6	1027.4	1012.6	953.6	901.9	872.4	866.9
52.5°	5699.4	2707.7	1051.4	898.3	935.2	1014.5	1021.8	966.5	890.9	865.1	861.4
55°	6357.9	3113.5	1023.7	830.0	885.3	1001.6	1021.8	929.6	876.1	876.1	872.4
57.5°	7658.3	3843.9	966.5	767.3	841.1	977.6	992.3	931.5	878.0	878.0	870.6
60°	9565.5	4983.8	857.7	719.3	798.7	944.4	970.2	903.8	857.7	868.7	866.9
62.5°	11057.6	5330.5	765.5	673.2	756.2	883.5	940.7	874.3	833.7	874.3	878.0
65°	11376.7	4980.1	671.4	623.4	697.2	824.5	898.3	831.9	798.7	878.0	881.7
66°	11262.4	4707.1	638.2	608.7	671.4	795.0	872.4	817.1	780.2	874.3	876.1
67.5°	10753.3	4297.6	601.3	577.3	636.3	752.5	842.9	796.8	750.7	863.2	846.6
70°	9646.6	3644.7	538.6	522.0	586.5	682.5	774.7	745.2	704.6	795.0	765.5
72.5°	7429.6	2912.4	472.2	474.0	529.4	610.5	706.4	686.1	651.1	697.2	678.8
75°	4524.5	1861.1	411.3	415.0	461.1	542.3	641.9	627.1	584.7	610.5	601.3
77.5°	2004.9	922.2	346.8	354.1	391.0	477.7	558.9	534.9	490.6	496.2	492.5
80°	778.4	437.1	282.2	291.4	315.4	381.8	463.0	440.8	402.1	394.7	391.0
82.5°	374.4	243.5	217.6	221.3	230.6	304.3	398.4	370.7	319.1	285.9	285.9
85°	188.1	151.2	153.1	140.2	153.1	206.6	269.3	225.0	186.3	166.0	169.7
87.5°	75.6	75.6	75.6	64.6	68.2	97.8	125.4	84.8	77.5	46.1	46.1
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)