

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: P476850

Luminaire Tested: **IFLD-M-SA4A-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

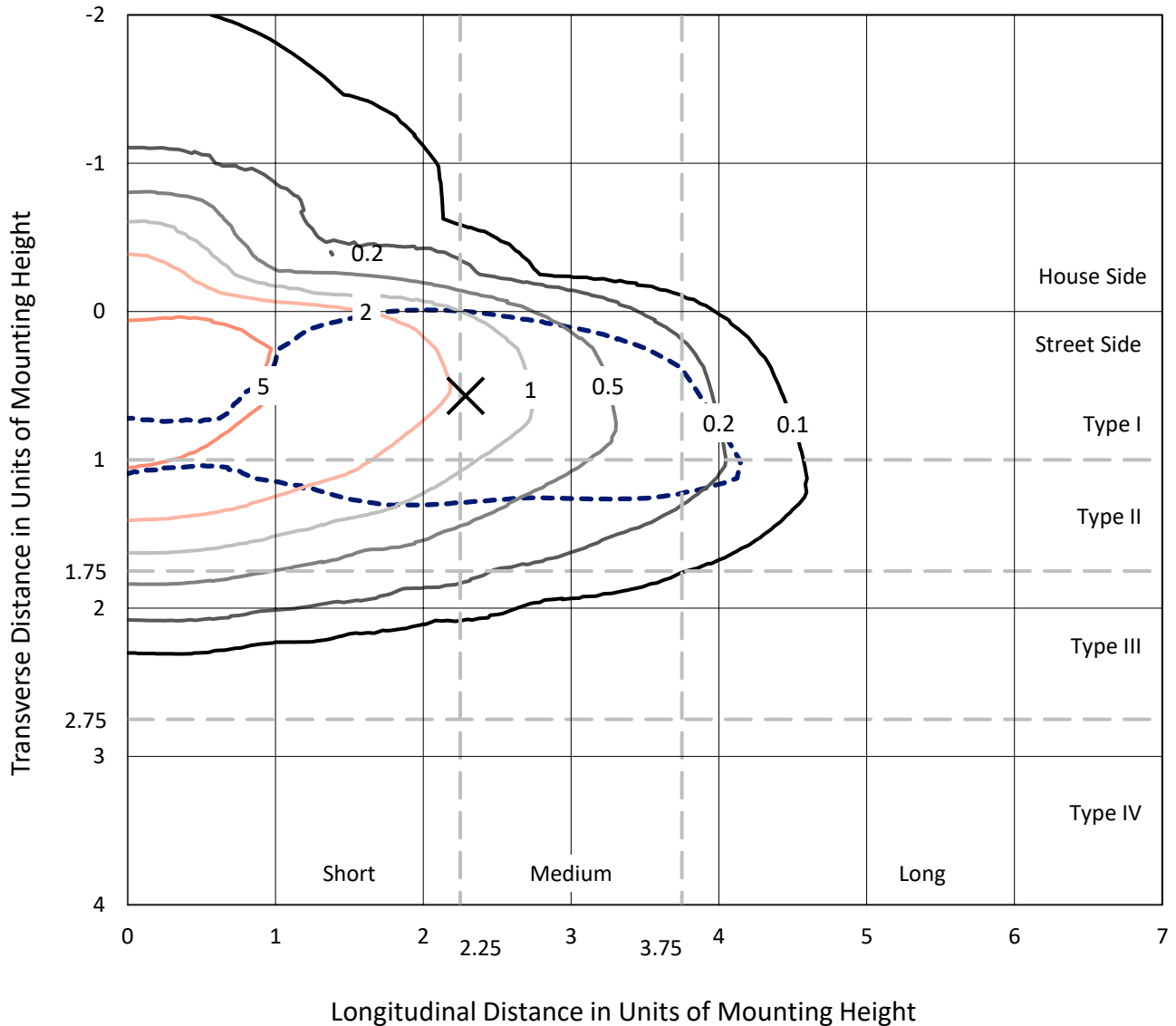
Lumens per Lamp: N/A
Luminaire Lumens: 13679.5 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

REPORT NUMBER: P476850
 CATALOG NUMBER: IFLD-M-SA4A-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

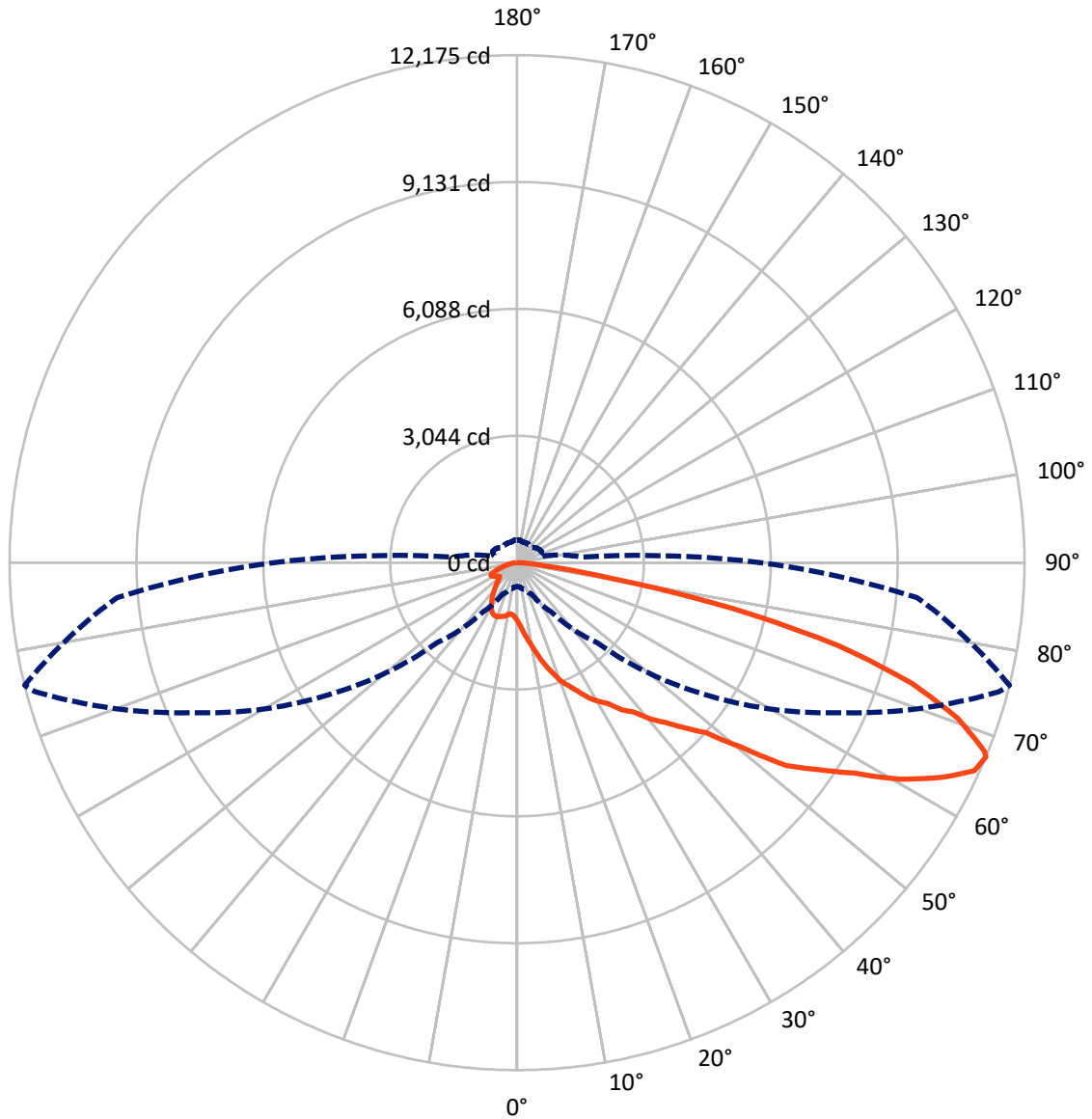
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P476850
CATALOG NUMBER: IFLD-M-SA4A-722-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P476850
 CATALOG NUMBER: IFLD-M-SA4A-722-U-T2R

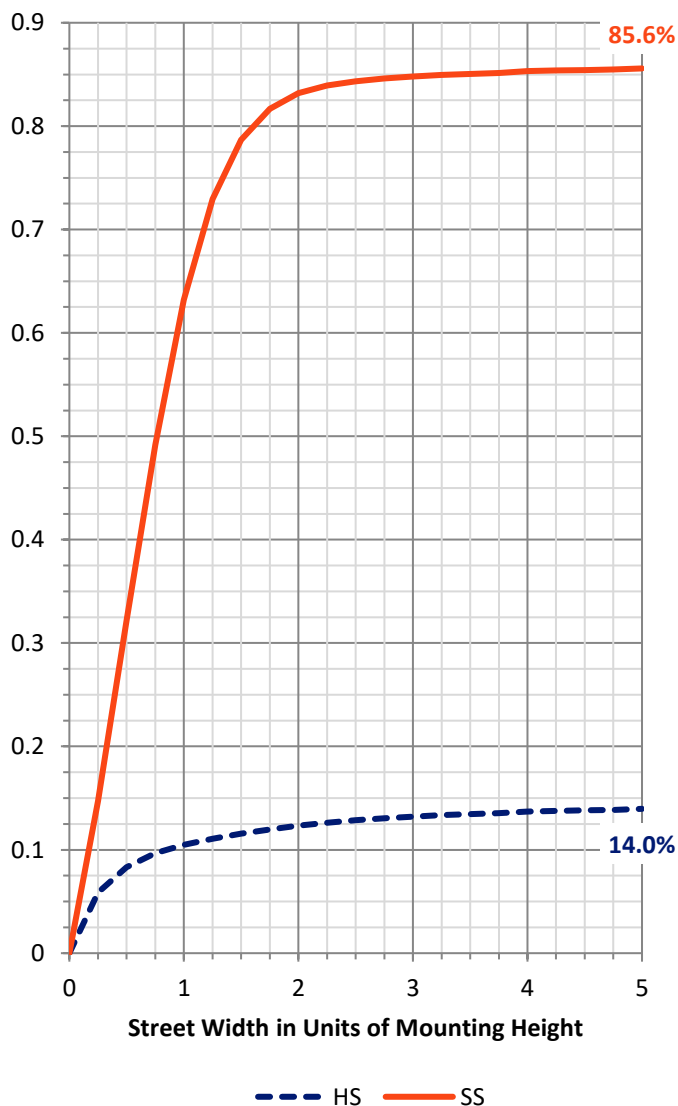
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1946.1	0.0	1946.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11733.4	0.0	11733.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	13679.5	0.0	13679.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.2	1.2
10°-20°	608.2	4.4
20°-30°	1130.7	8.3
30°-40°	1792.4	13.1
40°-50°	2479.0	18.1
50°-60°	3049.3	22.3
60°-70°	2837.6	20.7
70°-80°	1423.9	10.4
80°-90°	196.3	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°	13679.5	100.0
0°-180°	13679.5	100.0

Coefficient of Utilization



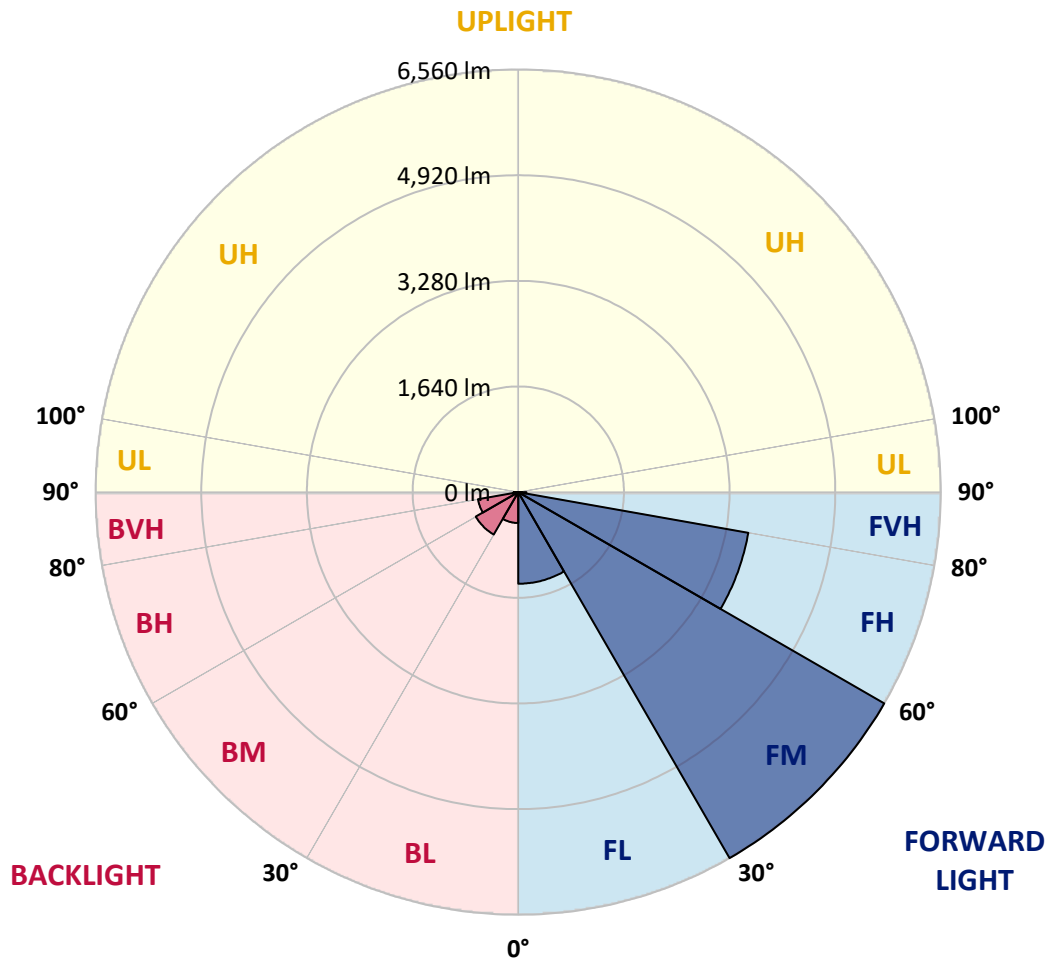
REPORT NUMBER: P476850
 CATALOG NUMBER: IFLD-M-SA4A-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.8	10.4			
FM (30°-60°)	6560.2	48.0			
FH (60°-80°)	3626.3	26.5			G2/5000
FVH (80°-90°)	125.1	0.9			G2/225
BL (0°-30°)	479.2	3.5	B1/500		
BM (30°-60°)	760.5	5.6	B1/1000		
BH (60°-80°)	635.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	71.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P476850

CATALOG NUMBER: IFLD-M-SA4A-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9
2.5°	1942.4	1919.0	1895.6	1845.7	1828.6	1781.8	1696.1	1601.0	1523.0	1512.1	1457.6
5°	2410.1	2375.8	2368.0	2339.9	2251.0	2160.6	2020.3	1867.6	1677.4	1691.4	1504.3
7.5°	2760.8	2740.5	2698.5	2671.9	2618.9	2498.9	2353.9	2151.3	1909.6	1862.9	1608.8
10°	3025.8	2997.8	2996.2	2972.8	2944.8	2821.6	2710.9	2438.1	2127.9	2064.0	1736.6
12.5°	3159.9	3155.2	3237.8	3237.8	3226.9	3175.5	2985.3	2735.9	2335.2	2313.4	1884.7
15°	3304.9	3265.9	3337.6	3392.2	3420.2	3446.7	3289.3	3025.8	2600.2	2558.1	2043.7
17.5°	3304.9	3301.7	3373.5	3463.9	3610.4	3644.7	3559.0	3292.4	2820.0	2788.9	2218.3
20°	3248.7	3293.9	3343.8	3465.4	3624.4	3763.2	3788.1	3565.2	3063.2	3038.3	2416.3
22.5°	3510.6	3467.0	3518.4	3565.2	3688.3	3898.8	3967.4	3805.3	3318.9	3223.8	2595.6
25°	3950.2	3920.6	3883.2	3814.6	3866.1	3958.0	4062.5	3983.0	3537.1	3431.1	2768.6
27.5°	4378.9	4380.5	4299.4	4149.8	4039.1	4057.8	4181.0	4138.9	3721.1	3674.3	2887.1
30°	4988.5	4951.1	4860.6	4658.0	4441.3	4263.6	4243.3	4283.8	3954.9	3864.5	3057.0
32.5°	5445.2	5453.0	5325.2	5033.7	4737.5	4592.5	4414.8	4431.9	4103.0	4036.0	3192.6
35°	5814.7	5805.3	5714.9	5473.3	5122.5	4947.9	4707.9	4609.7	4447.5	4341.5	3400.0
37.5°	6213.8	6137.4	5990.8	5718.0	5493.6	5251.9	5018.1	4796.7	4676.7	4548.9	3577.7
40°	6374.3	6374.3	6177.9	6053.2	5786.6	5604.2	5453.0	5043.0	4955.7	4930.8	3805.3
42.5°	6260.5	6330.7	6249.6	6107.8	5998.6	5767.9	5727.4	5298.7	5300.2	5250.4	4078.1
45°	6249.6	6153.0	6085.9	6121.8	6070.3	6057.9	6160.8	5652.6	5661.9	5655.7	4444.4
47.5°	5936.3	5892.6	5992.4	6051.6	6093.7	6287.0	6583.2	6075.0	6142.1	6095.3	4866.9
50°	5624.5	5616.7	5679.1	5894.2	6076.6	6394.6	6985.4	6726.6	6946.4	6943.3	5632.3
52.5°	4770.2	4852.8	5097.6	5552.8	6003.3	6541.1	7289.4	7559.1	7978.4	8092.2	6266.8
55°	3953.4	3909.7	4271.4	4932.3	5683.7	6598.8	7629.2	8059.5	8676.8	8759.4	6918.4
57.5°	3075.7	3156.8	3442.0	4076.5	5022.8	6313.5	7878.7	8553.7	9465.6	9529.5	7674.4
60°	2294.7	2305.6	2618.9	3130.3	4143.5	5669.7	7959.7	9060.3	10369.8	10552.2	8466.4
62.5°	1443.5	1509.0	1747.5	2251.0	3119.4	4768.7	7596.5	9367.4	11317.6	11365.9	9264.5
65°	777.9	820.0	999.3	1315.7	2179.3	3607.3	6633.1	9183.5	11763.4	12050.3	9620.0
67°	575.2	583.0	665.6	840.2	1457.6	2715.6	5531.0	8517.8	11966.1	12175.0	9634.0
67.5°	539.4	550.3	615.8	754.5	1292.3	2500.5	5242.6	8280.9	11875.7	12100.2	9524.9
70°	461.4	464.6	480.1	519.1	724.9	1504.3	3569.9	6785.9	11007.4	11222.5	8759.4
72.5°	410.0	413.1	419.3	427.1	491.1	869.9	2171.5	5222.3	9566.9	9909.9	7557.5
75°	360.1	371.0	374.1	367.9	417.8	565.9	1155.1	3838.0	7803.8	7970.6	5877.0
77.5°	305.5	310.2	316.5	322.7	372.6	422.5	555.0	2590.9	5356.4	5255.0	3178.6
80°	257.2	258.8	263.5	268.1	322.7	322.7	314.9	1399.9	2339.9	2237.0	1074.1
82.5°	183.9	194.9	205.8	218.2	268.1	216.7	205.8	623.6	740.5	704.6	363.2
85°	71.7	87.3	135.6	149.7	169.9	116.9	137.2	269.7	308.7	305.5	135.6
87.5°	12.5	14.0	37.4	57.7	62.4	40.5	65.5	96.7	115.4	124.7	49.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476850
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9	1399.9
2.5°	1412.4	1364.0	1306.4	1248.7	1211.3	1152.0	1147.3	1111.5	1106.8	1094.3	1100.6
5°	1423.3	1365.6	1248.7	1156.7	1114.6	1080.3	1088.1	1072.5	1067.8	1060.0	1047.6
7.5°	1509.0	1395.2	1220.6	1141.1	1109.9	1094.3	1094.3	1075.6	1061.6	1071.0	1080.3
10°	1565.1	1409.2	1242.4	1162.9	1138.0	1103.7	1116.2	1092.8	1100.6	1081.9	1081.9
12.5°	1655.5	1488.7	1287.6	1195.7	1155.1	1124.0	1136.4	1109.9	1103.7	1105.3	1100.6
15°	1777.1	1541.7	1307.9	1214.4	1186.3	1147.3	1138.0	1114.6	1091.2	1083.4	1092.8
17.5°	1890.9	1607.2	1321.9	1225.3	1180.1	1136.4	1125.5	1095.9	1088.1	1064.7	1046.0
20°	2026.6	1685.2	1340.7	1234.6	1156.7	1113.1	1085.0	1055.4	1028.9	1014.8	1021.1
22.5°	2117.0	1725.7	1350.0	1215.9	1122.4	1081.9	1022.6	1002.4	965.0	949.4	936.9
25°	2265.1	1775.6	1326.6	1164.5	1061.6	996.1	943.1	915.1	888.6	868.3	862.1
27.5°	2302.5	1813.0	1272.1	1077.2	965.0	896.4	851.2	816.9	799.7	768.5	762.3
30°	2411.6	1775.6	1191.0	971.2	873.0	802.8	757.6	732.7	692.2	684.4	667.2
32.5°	2481.8	1786.5	1088.1	868.3	767.0	704.6	675.0	650.1	639.1	601.7	592.4
35°	2598.7	1749.1	983.7	773.2	679.7	631.4	606.4	598.6	562.8	545.6	530.0
37.5°	2673.5	1727.3	879.2	665.6	584.6	564.3	572.1	539.4	495.7	463.0	452.1
40°	2804.5	1719.5	760.7	576.8	519.1	514.4	539.4	477.0	397.5	369.5	353.9
42.5°	2993.1	1666.5	668.8	497.3	467.7	487.9	492.6	397.5	352.3	328.9	318.0
45°	3173.9	1677.4	578.4	411.5	406.9	436.5	425.6	336.7	310.2	293.1	302.4
47.5°	3521.5	1731.9	489.5	343.0	366.3	394.4	330.5	300.9	275.9	263.5	265.0
50°	4059.4	1784.9	411.5	313.3	346.1	357.0	283.7	272.8	271.2	246.3	244.7
52.5°	4382.1	1764.7	397.5	350.8	371.0	357.0	308.7	300.9	288.4	277.5	265.0
55°	4894.9	1823.9	427.1	410.0	420.9	343.0	346.1	343.0	333.6	305.5	313.3
57.5°	5303.4	1862.9	466.1	458.3	452.1	357.0	361.7	363.2	357.0	344.5	355.4
60°	5864.6	1940.8	506.6	508.2	509.8	388.2	396.0	405.3	403.8	399.1	402.2
62.5°	6209.1	1905.0	551.8	576.8	569.0	452.1	450.5	456.8	456.8	464.6	469.2
65°	6157.6	1772.5	575.2	637.6	597.1	498.8	498.8	502.0	503.5	519.1	520.7
67°	5849.0	1535.5	562.8	646.9	597.1	517.6	517.6	520.7	509.8	550.3	537.8
67.5°	5705.6	1465.4	551.8	639.1	592.4	516.0	516.0	517.6	508.2	547.2	534.7
70°	4962.0	1088.1	475.5	565.9	548.7	502.0	502.0	492.6	484.8	536.3	525.3
72.5°	4235.5	790.4	381.9	481.7	495.7	483.3	486.4	463.0	441.2	477.0	467.7
75°	3244.1	581.5	297.7	371.0	419.3	452.1	472.3	413.1	385.0	394.4	377.3
77.5°	1809.9	378.8	235.4	274.4	319.6	420.9	453.6	372.6	314.9	304.0	304.0
80°	614.2	221.4	173.0	204.2	219.8	372.6	424.0	302.4	247.9	237.0	229.2
82.5°	232.3	135.6	118.5	140.3	140.3	294.6	346.1	232.3	187.1	241.6	246.3
85°	106.0	81.1	77.9	81.1	81.1	180.8	244.7	151.2	168.4	145.0	127.8
87.5°	42.1	39.0	35.9	34.3	28.1	31.2	84.2	40.5	76.4	20.3	18.7
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)