

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: P477010

Luminaire Tested: **IFLD-M-SA4E-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477010
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36408.1 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

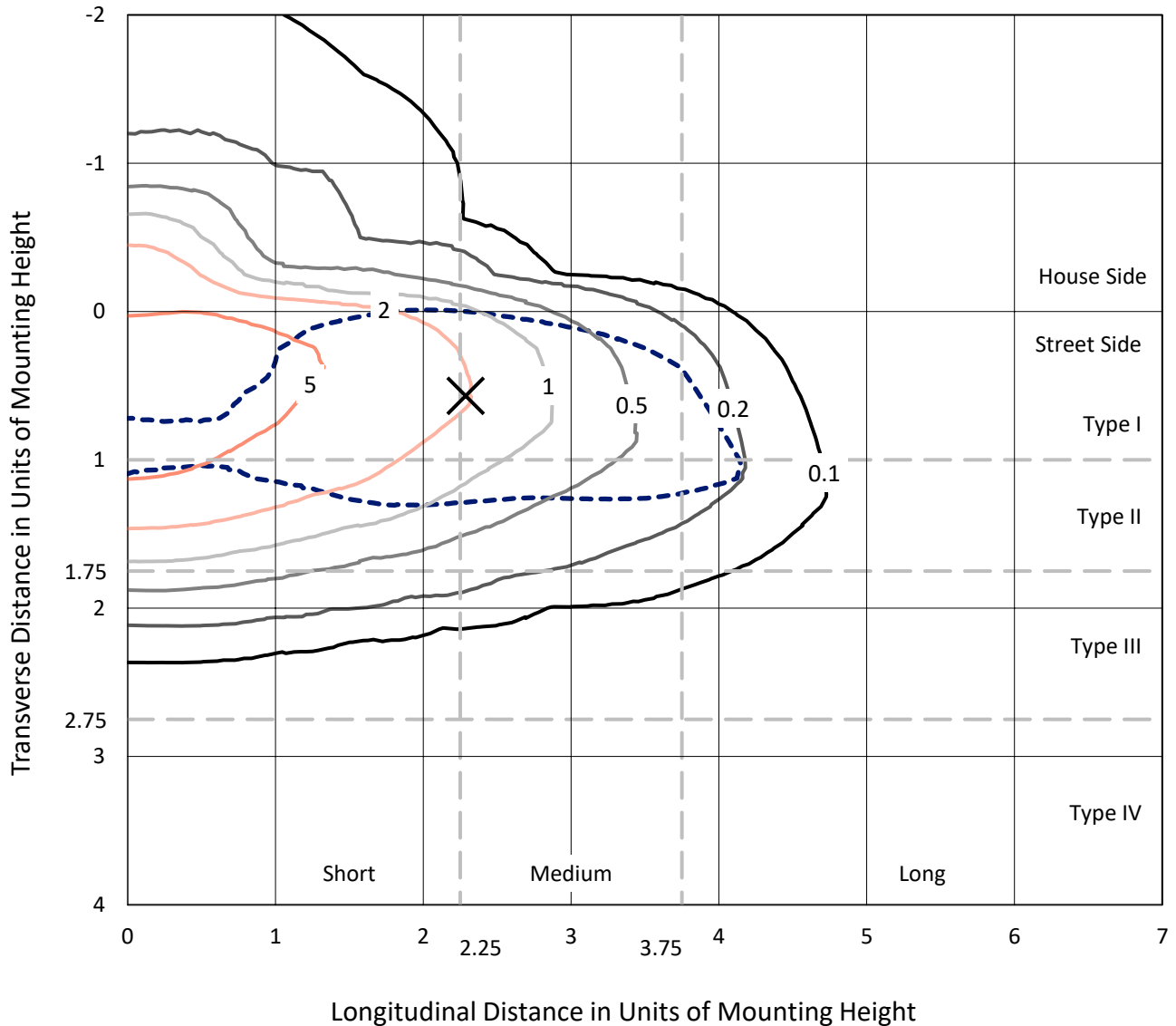
Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

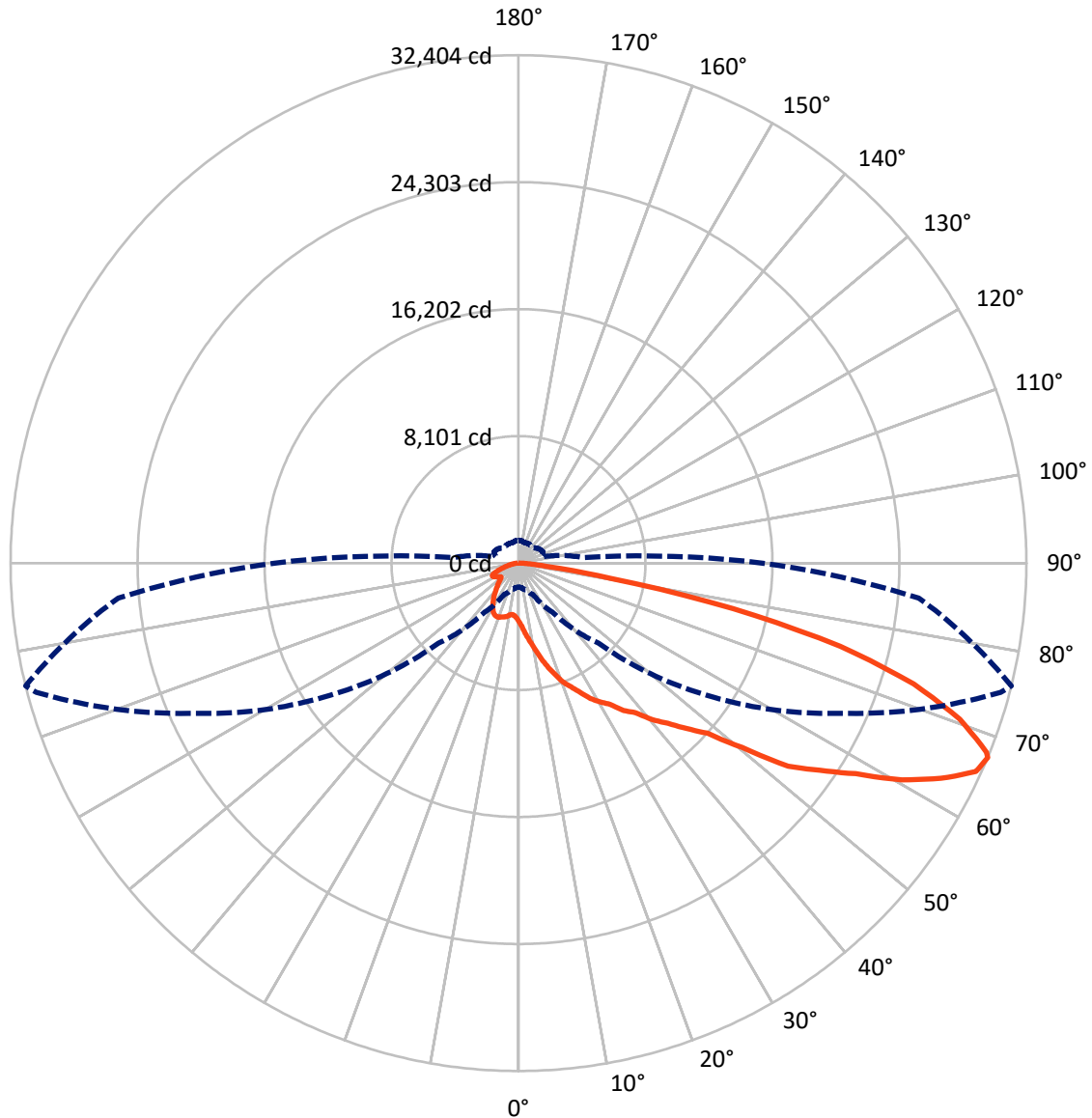
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.7 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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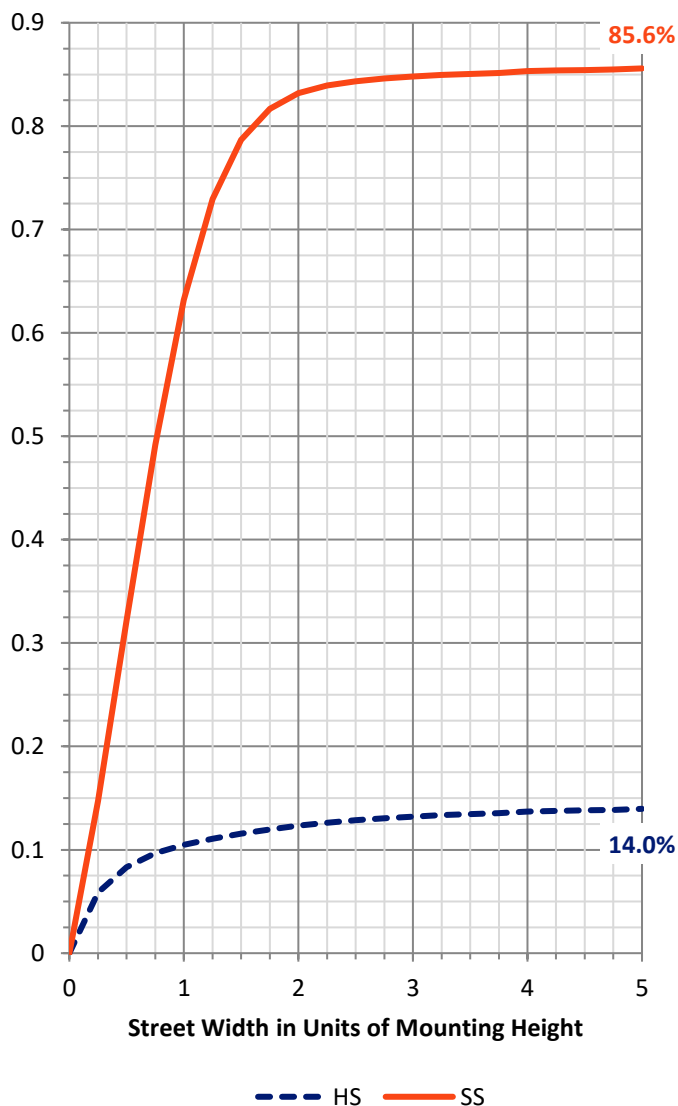
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5179.5	0.0	5179.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	31228.6	0.0	31228.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	36408.1	0.0	36408.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	1.2
10°-20°	1618.7	4.4
20°-30°	3009.3	8.3
30°-40°	4770.4	13.1
40°-50°	6597.9	18.1
50°-60°	8115.9	22.3
60°-70°	7552.2	20.7
70°-80°	3789.6	10.4
80°-90°	522.5	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°	36408.1	100.0
0°-180°	36408.1	100.0

Coefficient of Utilization



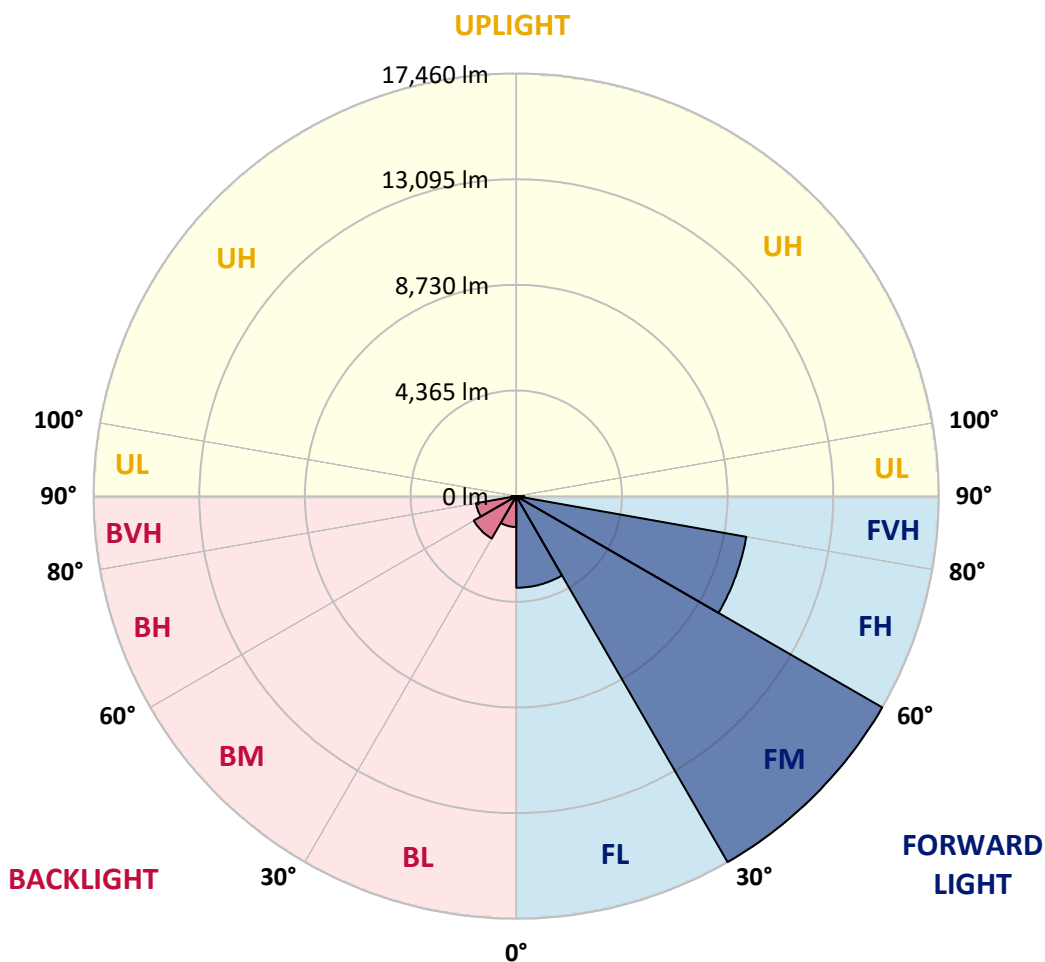
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3784.0	10.4			
FM (30°-60°)	17460.1	48.0			
FH (60°-80°)	9651.5	26.5			G4/12000
FVH (80°-90°)	332.9	0.9			G3/500
BL (0°-30°)	1275.5	3.5	B3/2500		
BM (30°-60°)	2024.0	5.6	B2/2500		
BH (60°-80°)	1690.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	189.6	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8
2.5°	5169.7	5107.4	5045.2	4912.4	4866.8	4742.3	4514.1	4261.0	4053.6	4024.5	3879.3
5°	6414.4	6323.1	6302.3	6227.7	5991.2	5750.5	5377.1	4970.5	4464.3	4501.7	4003.8
7.5°	7347.9	7294.0	7181.9	7111.4	6970.3	6650.9	6265.0	5725.6	5082.5	4958.1	4281.8
10°	8053.2	7978.5	7974.4	7912.2	7837.5	7509.7	7215.1	6489.0	5663.4	5493.3	4622.0
12.5°	8410.0	8397.6	8617.5	8617.5	8588.4	8451.5	7945.4	7281.5	6215.2	6157.1	5016.2
15°	8795.9	8692.2	8883.0	9028.2	9102.9	9173.5	8754.4	8053.2	6920.5	6808.5	5439.3
17.5°	8795.9	8787.6	8978.5	9219.1	9609.1	9700.4	9472.2	8762.7	7505.6	7422.6	5904.0
20°	8646.5	8766.9	8899.6	9223.2	9646.4	10015.7	10082.1	9488.8	8152.8	8086.4	6431.0
22.5°	9343.6	9227.4	9364.3	9488.8	9816.6	10376.7	10559.2	10127.7	8833.2	8580.1	6908.1
25°	10513.6	10434.8	10335.2	10152.6	10289.5	10534.3	10812.3	10600.7	9414.1	9132.0	7368.6
27.5°	11654.6	11658.7	11443.0	11044.7	10750.1	10799.9	11127.6	11015.6	9903.7	9779.2	7684.0
30°	13276.8	13177.2	12936.6	12397.2	11820.5	11347.5	11293.6	11401.5	10526.0	10285.4	8136.2
32.5°	14492.5	14513.2	14173.0	13397.1	12608.8	12223.0	11750.0	11795.6	10920.2	10741.8	8497.2
35°	15475.8	15450.9	15210.3	14567.2	13633.6	13169.0	12530.0	12268.6	11837.1	11555.0	9049.0
37.5°	16537.9	16334.6	15944.6	15218.6	14621.1	13978.0	13355.7	12766.5	12447.0	12106.8	9522.0
40°	16965.3	16965.3	16442.5	16110.6	15401.1	14915.7	14513.2	13422.0	13189.7	13123.3	10127.7
42.5°	16662.4	16849.1	16633.4	16255.8	15965.4	15351.3	15243.5	14102.5	14106.6	13973.9	10853.8
45°	16633.4	16376.1	16197.7	16293.2	16156.2	16123.0	16396.9	15044.3	15069.2	15052.6	11828.8
47.5°	15799.4	15683.2	15948.8	16106.4	16218.5	16732.9	17521.3	16168.7	16347.1	16222.6	12953.2
50°	14969.6	14948.9	15114.8	15687.4	16172.8	17019.2	18591.7	17903.0	18488.0	18479.7	14990.4
52.5°	12696.0	12915.9	13567.3	14778.8	15977.8	17409.2	19400.8	20118.5	21234.6	21537.5	16679.0
55°	10521.9	10405.7	11368.3	13127.5	15127.3	17562.8	20305.2	21450.4	23093.4	23313.3	18413.3
57.5°	8186.0	8401.7	9161.0	10849.7	13368.1	16803.5	20969.1	22765.6	25192.8	25362.9	20425.6
60°	6107.3	6136.4	6970.3	8331.2	11028.1	15089.9	21184.8	24114.0	27599.2	28084.6	22533.3
62.5°	3842.0	4016.2	4651.0	5991.2	8302.2	12691.8	20218.1	24931.4	30121.8	30250.4	24657.6
65°	2070.4	2182.4	2659.5	3501.8	5800.3	9600.8	17654.0	24441.8	31308.4	32071.8	25603.5
67°	1531.0	1551.7	1771.6	2236.3	3879.3	7227.6	14720.7	22670.2	31847.8	32403.8	25640.9
67.5°	1435.6	1464.6	1638.9	2008.1	3439.5	6655.0	13953.1	22039.5	31607.1	32204.6	25350.4
70°	1228.1	1236.4	1277.9	1381.6	1929.3	4003.8	9501.2	18060.6	29296.1	29868.7	23313.3
72.5°	1091.2	1099.5	1116.1	1136.8	1306.9	2315.1	5779.6	13899.2	25462.5	26375.2	20114.4
75°	958.4	987.5	995.8	979.2	1111.9	1506.1	3074.4	10214.9	20769.9	21213.9	15641.8
77.5°	813.2	825.7	842.2	858.8	991.6	1124.4	1477.0	6895.7	14256.0	13986.3	8459.8
80°	684.6	688.7	701.2	713.6	858.8	858.8	838.1	3725.8	6227.7	5953.8	2858.7
82.5°	489.6	518.6	547.7	580.9	713.6	576.7	547.7	1659.6	1970.8	1875.4	966.7
85°	190.9	232.3	361.0	398.3	452.2	311.2	365.1	717.8	821.5	813.2	361.0
87.5°	33.2	37.3	99.6	153.5	166.0	107.9	174.3	257.2	307.0	331.9	132.8
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°	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8	3725.8
2.5°	3759.0	3630.4	3476.9	3323.4	3223.8	3066.1	3053.7	2958.2	2945.8	2912.6	2929.2
5°	3788.0	3634.5	3323.4	3078.6	2966.5	2875.3	2896.0	2854.5	2842.1	2821.3	2788.1
7.5°	4016.2	3713.4	3248.7	3037.1	2954.1	2912.6	2912.6	2862.8	2825.5	2850.4	2875.3
10°	4165.6	3750.7	3306.8	3095.2	3028.8	2937.5	2970.7	2908.5	2929.2	2879.4	2879.4
12.5°	4406.2	3962.3	3427.1	3182.3	3074.4	2991.4	3024.6	2954.1	2937.5	2941.6	2929.2
15°	4729.9	4103.4	3481.0	3232.1	3157.4	3053.7	3028.8	2966.5	2904.3	2883.6	2908.5
17.5°	5032.7	4277.6	3518.4	3261.1	3140.8	3024.6	2995.6	2916.8	2896.0	2833.8	2784.0
20°	5393.7	4485.1	3568.1	3286.0	3078.6	2962.4	2887.7	2808.9	2738.3	2701.0	2717.6
22.5°	5634.4	4593.0	3593.0	3236.2	2987.3	2879.4	2721.7	2667.8	2568.2	2526.7	2493.6
25°	6028.5	4725.7	3530.8	3099.3	2825.5	2651.2	2510.1	2435.5	2364.9	2311.0	2294.4
27.5°	6128.1	4825.3	3385.6	2867.0	2568.2	2385.7	2265.4	2174.1	2128.4	2045.5	2028.9
30°	6418.5	4725.7	3169.8	2584.8	2323.4	2136.7	2016.4	1950.0	1842.2	1821.4	1775.8
32.5°	6605.2	4754.8	2896.0	2311.0	2041.3	1875.4	1796.5	1730.1	1701.1	1601.5	1576.6
35°	6916.4	4655.2	2618.0	2057.9	1809.0	1680.3	1614.0	1593.2	1497.8	1452.2	1410.7
37.5°	7115.5	4597.1	2340.0	1771.6	1555.9	1501.9	1522.7	1435.6	1319.4	1232.3	1203.2
40°	7464.1	4576.4	2024.7	1535.1	1381.6	1369.2	1435.6	1269.6	1058.0	983.3	941.8
42.5°	7966.1	4435.3	1779.9	1323.5	1244.7	1298.6	1311.1	1058.0	937.7	875.4	846.4
45°	8447.4	4464.3	1539.3	1095.3	1082.9	1161.7	1132.7	896.2	825.7	780.0	804.9
47.5°	9372.6	4609.5	1302.8	912.8	975.0	1049.7	879.6	800.8	734.4	701.2	705.3
50°	10804.0	4750.6	1095.3	834.0	921.1	950.1	755.1	726.1	721.9	655.5	651.4
52.5°	11662.9	4696.7	1058.0	933.5	987.5	950.1	821.5	800.8	767.6	738.5	705.3
55°	13027.9	4854.3	1136.8	1091.2	1120.2	912.8	921.1	912.8	887.9	813.2	834.0
57.5°	14114.9	4958.1	1240.6	1219.8	1203.2	950.1	962.6	966.7	950.1	916.9	946.0
60°	15608.6	5165.5	1348.4	1352.6	1356.7	1033.1	1053.8	1078.7	1074.6	1062.1	1070.4
62.5°	16525.5	5070.1	1468.7	1535.1	1514.4	1203.2	1199.1	1215.7	1215.7	1236.4	1248.9
65°	16388.6	4717.4	1531.0	1696.9	1589.1	1327.7	1327.7	1336.0	1340.1	1381.6	1385.8
67°	15567.1	4086.8	1497.8	1721.8	1589.1	1377.5	1377.5	1385.8	1356.7	1464.6	1431.4
67.5°	15185.4	3900.1	1468.7	1701.1	1576.6	1373.3	1373.3	1377.5	1352.6	1456.3	1423.1
70°	13206.3	2896.0	1265.4	1506.1	1460.5	1336.0	1336.0	1311.1	1290.3	1427.3	1398.2
72.5°	11272.9	2103.5	1016.5	1282.0	1319.4	1286.2	1294.5	1232.3	1174.2	1269.6	1244.7
75°	8634.1	1547.6	792.5	987.5	1116.1	1203.2	1257.1	1099.5	1024.8	1049.7	1004.1
77.5°	4817.0	1008.2	626.5	730.2	850.5	1120.2	1207.4	991.6	838.1	809.1	809.1
80°	1634.7	589.2	460.5	543.5	585.0	991.6	1128.5	804.9	659.7	630.6	609.9
82.5°	618.2	361.0	315.3	373.4	373.4	784.2	921.1	618.2	497.9	643.1	655.5
85°	282.1	215.7	207.5	215.7	215.7	481.3	651.4	402.5	448.1	385.9	340.2
87.5°	112.0	103.7	95.4	91.3	74.7	83.0	224.0	107.9	203.3	53.9	49.8
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)