

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: P478610

Luminaire Tested: **IFLD-L-SA7A-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478610
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

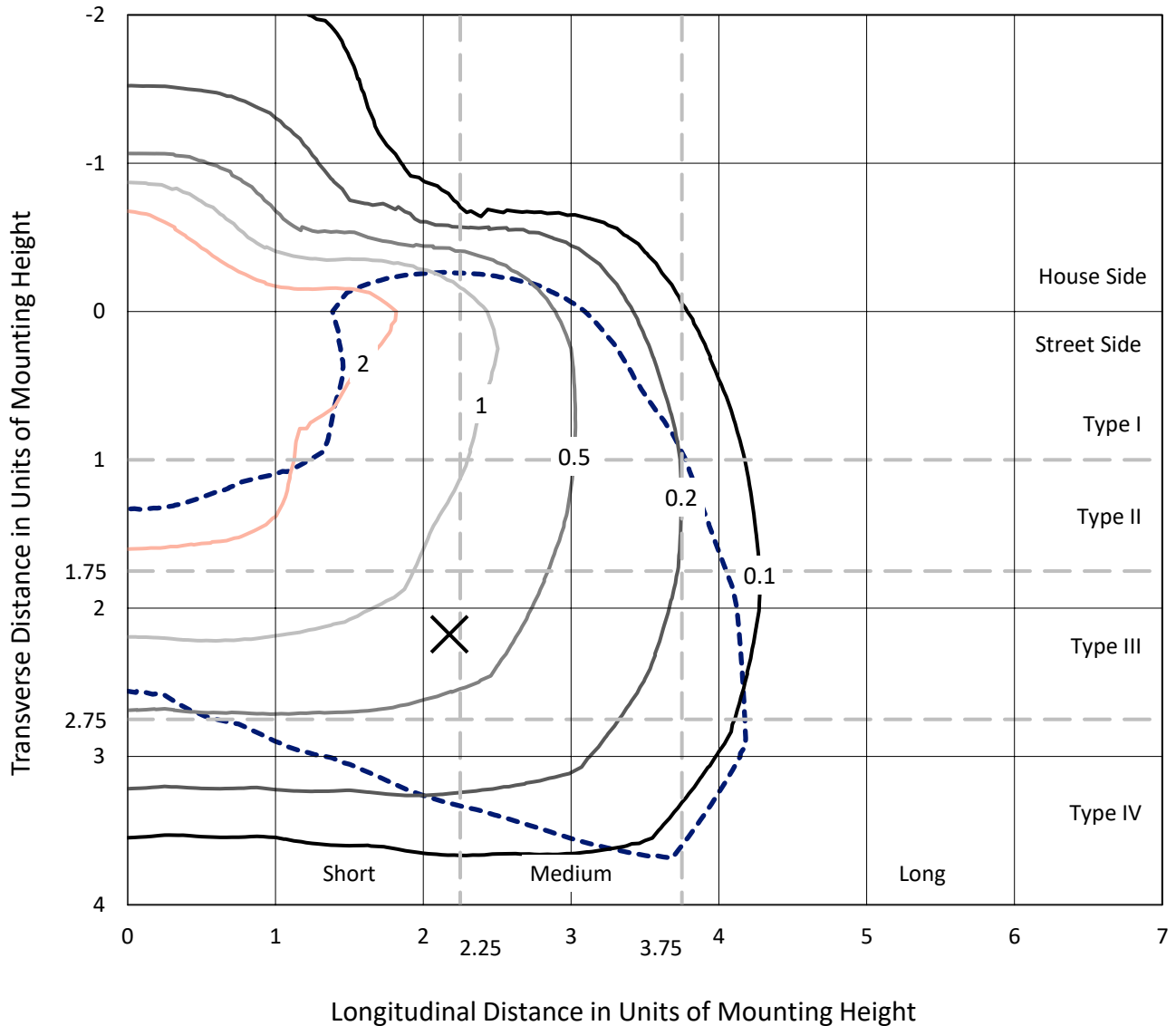
Lumens per Lamp: N/A
Luminaire Lumens: 32362.4 lumens
Efficiency: N/A
Efficacy: 148.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

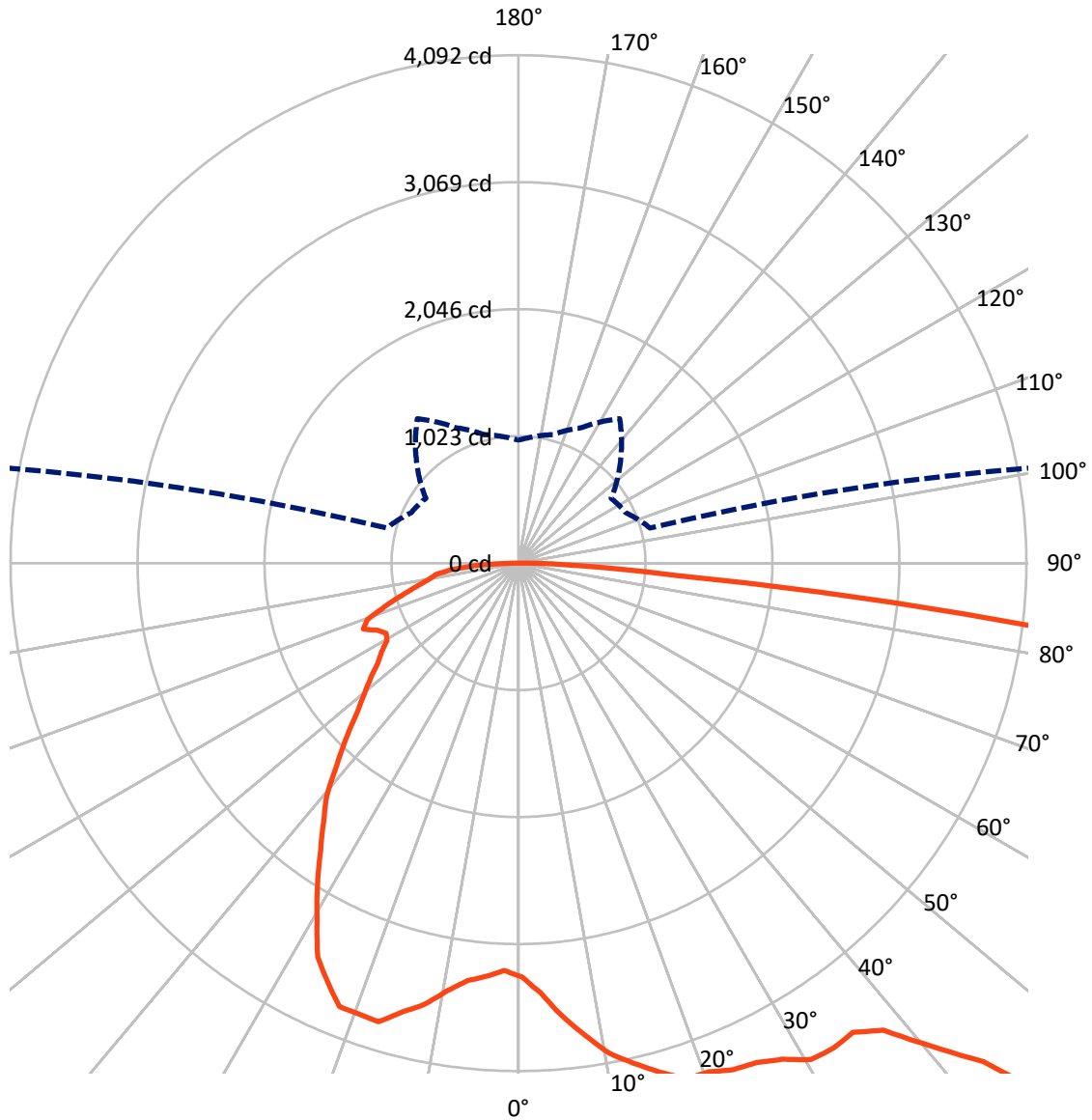
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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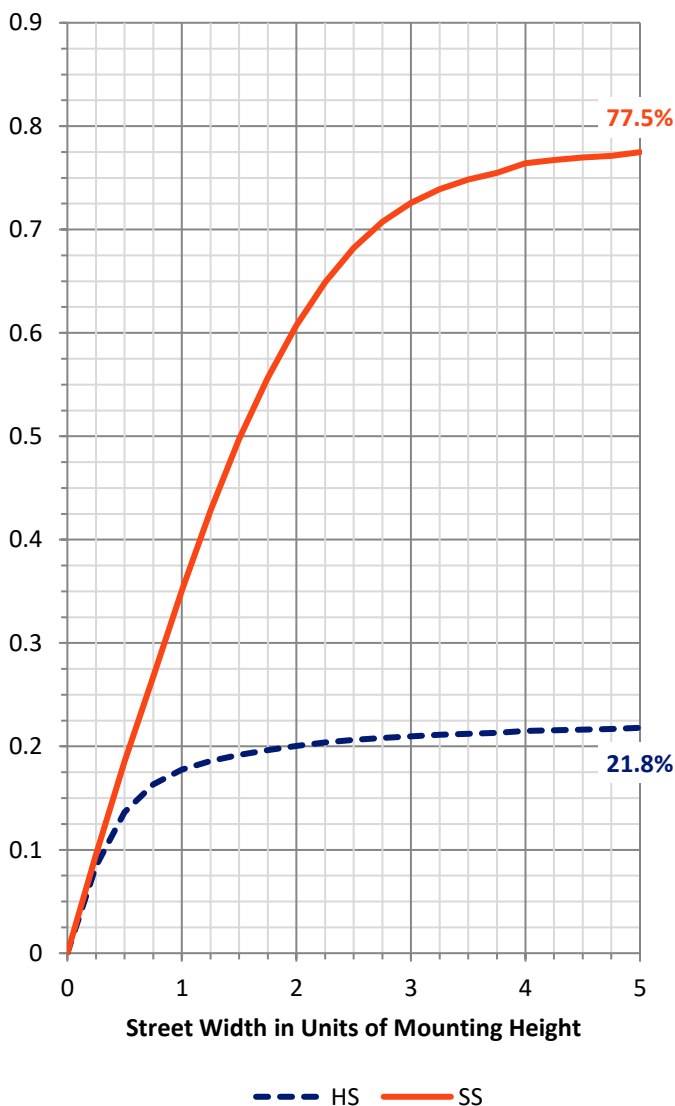
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7204.1	0.0	7204.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25158.4	0.0	25158.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	32362.4	0.0	32362.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.0	1.1
10°-20°	1134.6	3.5
20°-30°	1916.1	5.9
30°-40°	2651.5	8.2
40°-50°	3792.8	11.7
50°-60°	6117.3	18.9
60°-70°	9022.2	27.9
70°-80°	6551.7	20.2
80°-90°	835.2	2.6
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°	32362.4	100.0
0°-180°	32362.4	100.0

Coefficient of Utilization

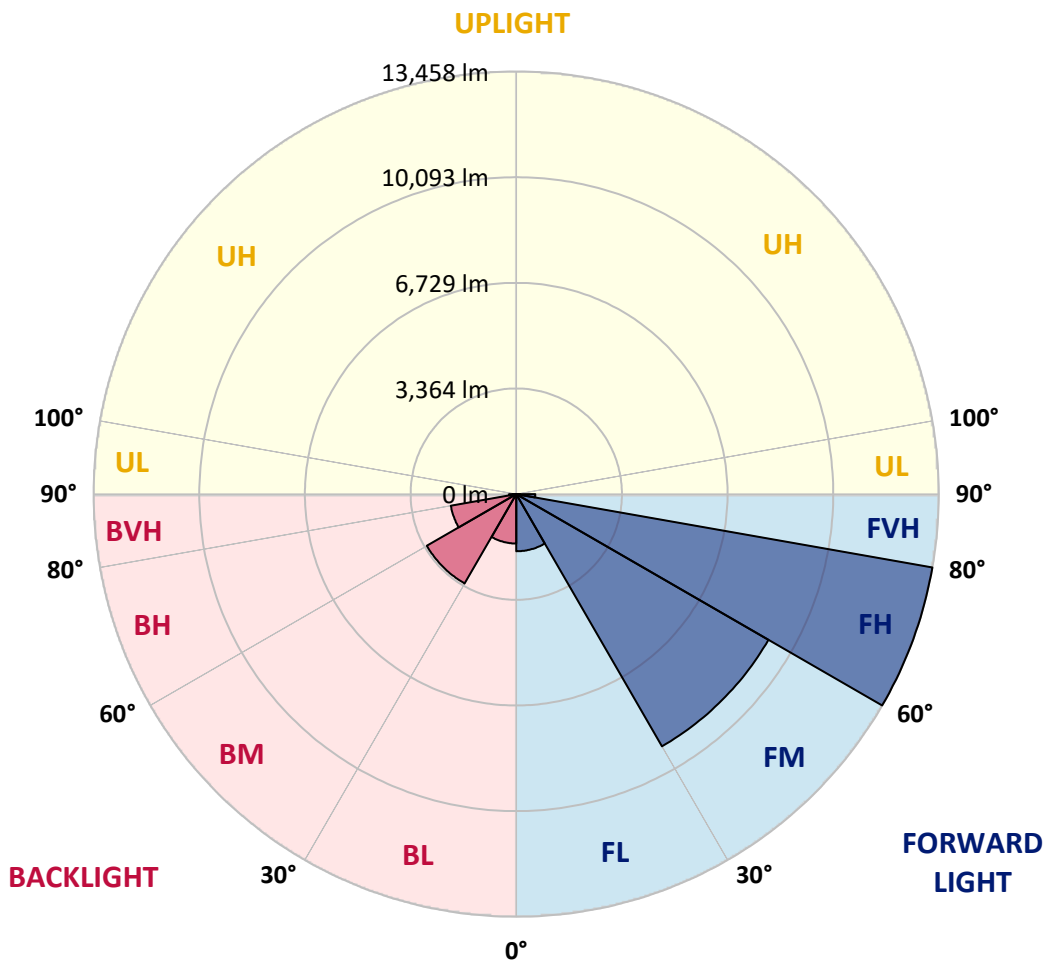


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.8	5.6			
FM (30°-60°)	9273.9	28.7			
FH (60°-80°)	13457.8	41.6			G5
FVH (80°-90°)	607.9	1.9			G4/750
BL (0°-30°)	1573.0	4.9	B3/2500		
BM (30°-60°)	3287.7	10.2	B3/5000		
BH (60°-80°)	2116.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	227.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7
2.5°	3510.7	3531.7	3510.7	3507.2	3472.3	3447.9	3468.8	3437.4	3402.5	3388.6	3357.2
5°	3831.8	3835.3	3796.9	3800.4	3727.1	3650.3	3664.3	3570.1	3468.8	3430.5	3367.6
7.5°	4159.8	4121.4	4065.6	4048.2	3933.0	3849.2	3838.8	3755.0	3598.0	3510.7	3423.5
10°	4372.7	4386.7	4295.9	4219.2	4121.4	4020.2	4016.7	3859.7	3769.0	3639.8	3528.2
12.5°	4561.2	4564.6	4487.9	4365.7	4243.6	4117.9	4135.4	4065.6	3912.1	3789.9	3678.2
15°	4707.7	4686.8	4603.0	4491.4	4362.2	4264.5	4254.0	4194.7	4065.6	3964.4	3779.4
17.5°	4749.6	4739.1	4655.4	4536.7	4411.1	4337.8	4365.7	4268.0	4215.7	4124.9	3946.9
20°	4669.3	4644.9	4630.9	4498.3	4407.6	4400.6	4376.2	4397.1	4309.9	4226.1	4097.0
22.5°	4522.8	4512.3	4505.3	4400.6	4358.7	4390.2	4432.0	4463.4	4449.5	4369.2	4222.6
25°	4372.7	4421.6	4376.2	4327.3	4386.7	4466.9	4456.5	4557.7	4557.7	4533.2	4411.1
27.5°	4477.4	4446.0	4411.1	4386.7	4407.6	4533.2	4526.3	4648.4	4693.8	4648.4	4508.8
30°	4739.1	4707.7	4606.5	4498.3	4470.4	4606.5	4641.4	4749.6	4770.5	4658.9	4540.2
32.5°	5231.2	5213.7	5053.2	4735.6	4564.6	4641.4	4658.9	4781.0	4763.6	4693.8	4644.9
35°	5960.6	5901.2	5677.9	5140.5	4763.6	4686.8	4641.4	4739.1	4805.4	4770.5	4725.2
37.5°	6759.7	6693.4	6417.7	5737.2	5123.0	4808.9	4774.0	4854.3	4931.1	4913.6	4819.4
40°	7524.0	7524.0	7276.2	6484.0	5656.9	5105.6	5112.5	5021.8	5091.6	5060.2	5077.6
42.5°	8277.8	8249.9	8148.7	7360.0	6229.3	5601.1	5489.4	5262.6	5388.2	5377.8	5402.2
45°	9042.0	9021.1	8993.2	8176.6	7049.4	6271.1	6211.8	5803.5	5918.7	5869.8	5974.5
47.5°	9652.7	9677.2	9677.2	9087.4	7925.3	7164.5	7077.3	6431.7	6651.5	6676.0	6700.4
50°	10172.7	10183.2	10172.7	9956.4	8902.4	8187.0	8009.1	7353.0	7572.8	7764.8	7988.1
52.5°	10891.6	10905.6	10856.7	10773.0	10228.6	9261.9	9063.0	8333.6	8783.8	8986.2	9387.5
55°	11778.0	11673.3	11582.6	11645.4	11502.3	10444.9	10239.0	9345.6	10022.7	10291.4	11094.0
57.5°	11942.0	12032.8	12263.1	12762.1	12968.0	11596.6	11477.9	10588.0	11422.1	11655.9	12996.0
60°	12521.4	12371.3	12936.6	14018.5	14248.8	13097.2	12975.0	11949.0	12814.5	13058.8	14751.3
62.5°	12901.7	12894.8	13732.3	15016.5	15540.0	14653.6	14405.8	13718.3	14318.6	14555.9	16663.7
65°	12790.1	12891.3	14377.9	15602.8	16618.4	16422.9	16279.9	15239.9	16032.1	16011.1	17909.6
67.5°	11771.0	12057.2	13969.6	16025.1	18223.7	18579.6	18534.3	17379.1	17424.5	16981.3	18464.5
70°	10357.7	10260.0	12242.2	15585.4	19026.3	21137.6	21127.2	18970.5	18677.3	17194.2	16873.1
72°	7956.7	7848.5	9478.3	13383.3	18604.1	22160.1	22474.2	20073.3	18663.4	16311.3	13938.2
72.5°	7223.9	7129.6	8752.4	12598.1	18136.4	22425.4	22278.8	20115.1	18516.8	15896.0	13020.4
75°	3325.8	3217.6	4372.7	7712.4	14147.6	19870.8	20369.9	18823.9	16171.7	12654.0	7799.7
77.5°	991.1	959.7	1406.4	3112.9	8221.9	14639.7	14831.6	14203.4	11289.5	6930.7	2893.0
80°	551.4	554.9	725.9	1165.6	3615.4	8462.7	9153.7	8773.3	5538.3	2289.3	963.2
82.5°	307.1	324.6	453.7	691.0	1661.1	3884.1	4180.8	4030.7	2003.1	1074.9	527.0
85°	160.5	167.5	237.3	369.9	942.2	1228.4	1263.3	1354.0	1040.0	732.9	282.7
87.5°	62.8	62.8	87.2	153.6	349.0	380.4	342.0	415.3	596.8	474.6	139.6
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°	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7	3332.7
2.5°	3385.1	3357.2	3353.7	3308.3	3322.3	3283.9	3287.4	3280.4	3283.9	3276.9	3259.5
5°	3367.6	3346.7	3287.4	3325.8	3290.9	3339.7	3378.1	3364.2	3374.6	3371.1	3374.6
7.5°	3392.1	3364.2	3357.2	3336.2	3367.6	3388.6	3420.0	3507.2	3500.3	3510.7	3531.7
10°	3465.4	3433.9	3413.0	3444.4	3427.0	3493.3	3528.2	3573.5	3653.8	3657.3	3615.4
12.5°	3608.4	3587.5	3545.6	3552.6	3611.9	3632.9	3653.8	3681.7	3734.1	3723.6	3762.0
15°	3772.5	3727.1	3702.7	3695.7	3709.6	3734.1	3730.6	3758.5	3786.4	3810.8	3800.4
17.5°	3891.1	3831.8	3838.8	3873.7	3870.2	3863.2	3817.8	3803.9	3817.8	3831.8	3824.8
20°	4013.3	4020.2	3967.9	3936.5	3922.5	3852.7	3817.8	3775.9	3734.1	3755.0	3786.4
22.5°	4166.8	4135.4	4058.6	3964.4	3894.6	3852.7	3744.5	3671.3	3671.3	3692.2	3681.7
25°	4341.3	4275.0	4142.4	3971.4	3884.1	3706.2	3629.4	3618.9	3591.0	3622.4	3636.4
27.5°	4477.4	4418.1	4236.6	3946.9	3706.2	3563.1	3517.7	3503.7	3549.1	3552.6	3608.4
30°	4533.2	4515.8	4250.6	3884.1	3524.7	3294.4	3266.4	3329.3	3378.1	3451.4	3454.9
32.5°	4606.5	4613.5	4271.5	3737.6	3287.4	3057.1	3015.2	3092.0	3231.5	3290.9	3336.2
35°	4728.7	4763.6	4254.0	3556.1	3036.1	2816.3	2809.3	2830.2	2966.3	3071.0	3130.3
37.5°	4941.5	4934.6	4250.6	3339.7	2837.2	2606.9	2551.0	2558.0	2648.7	2736.0	2725.5
40°	5227.7	5199.8	4240.1	3057.1	2579.0	2428.9	2334.7	2299.8	2292.8	2268.4	2275.3
42.5°	5618.6	5562.7	4236.6	2770.9	2345.1	2184.6	2118.3	2027.6	1961.3	1835.6	1842.6
45°	6163.0	6065.2	4145.9	2502.2	2114.8	1982.2	1881.0	1814.7	1671.6	1514.6	1514.6
47.5°	7004.0	6686.4	4149.4	2205.5	1891.5	1783.3	1713.5	1598.3	1444.8	1319.1	1305.2
50°	8242.9	7517.0	4030.7	1971.7	1710.0	1636.7	1563.4	1430.8	1284.2	1197.0	1207.5
52.5°	9841.2	8755.9	4027.2	1762.3	1566.9	1514.6	1434.3	1315.6	1207.5	1151.6	1130.7
55°	11746.6	10396.1	4152.8	1591.3	1420.3	1392.4	1357.5	1259.8	1155.1	1106.3	1102.8
57.5°	13697.4	11997.9	4355.3	1469.2	1294.7	1315.6	1291.2	1214.4	1130.7	1074.9	1067.9
60°	15431.8	13268.2	3946.9	1322.6	1183.0	1228.4	1263.3	1197.0	1151.6	1148.1	1123.7
62.5°	16740.5	13812.6	3001.2	1211.0	1123.7	1207.5	1301.7	1343.6	1322.6	1350.5	1354.0
65°	17218.6	13484.5	2066.0	1151.6	1078.3	1256.3	1465.7	1451.8	1329.6	1277.3	1305.2
67.5°	16548.6	12154.9	1532.0	1081.8	1046.9	1357.5	1559.9	1385.4	1200.5	1193.5	1172.6
70°	14231.3	10301.8	1249.3	1008.5	994.6	1301.7	1518.1	1284.2	1130.7	1085.3	1064.4
72°	11338.3	8023.0	1095.8	956.2	910.8	1162.1	1420.3	1204.0	1071.4	1015.5	991.1
72.5°	10350.7	7436.7	1074.9	931.8	893.4	1130.7	1371.5	1179.5	1057.4	1008.5	970.2
75°	5677.9	3807.4	945.7	855.0	753.8	977.1	1270.3	1106.3	998.1	928.3	921.3
77.5°	2111.3	1476.2	816.6	757.3	652.6	844.5	1155.1	1050.4	907.3	820.1	802.7
80°	809.6	778.2	666.5	638.6	547.9	739.8	1064.4	942.2	771.2	684.0	656.1
82.5°	492.1	453.7	506.0	499.0	418.8	673.5	1001.6	882.9	684.0	554.9	537.4
85°	268.7	268.7	352.5	338.5	293.1	537.4	757.3	586.3	432.7	356.0	362.9
87.5°	118.7	139.6	188.4	178.0	160.5	303.6	369.9	310.6	216.4	146.6	157.0
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)