

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: P478493

Luminaire Tested: **IFLD-L-SA7A-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478493
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

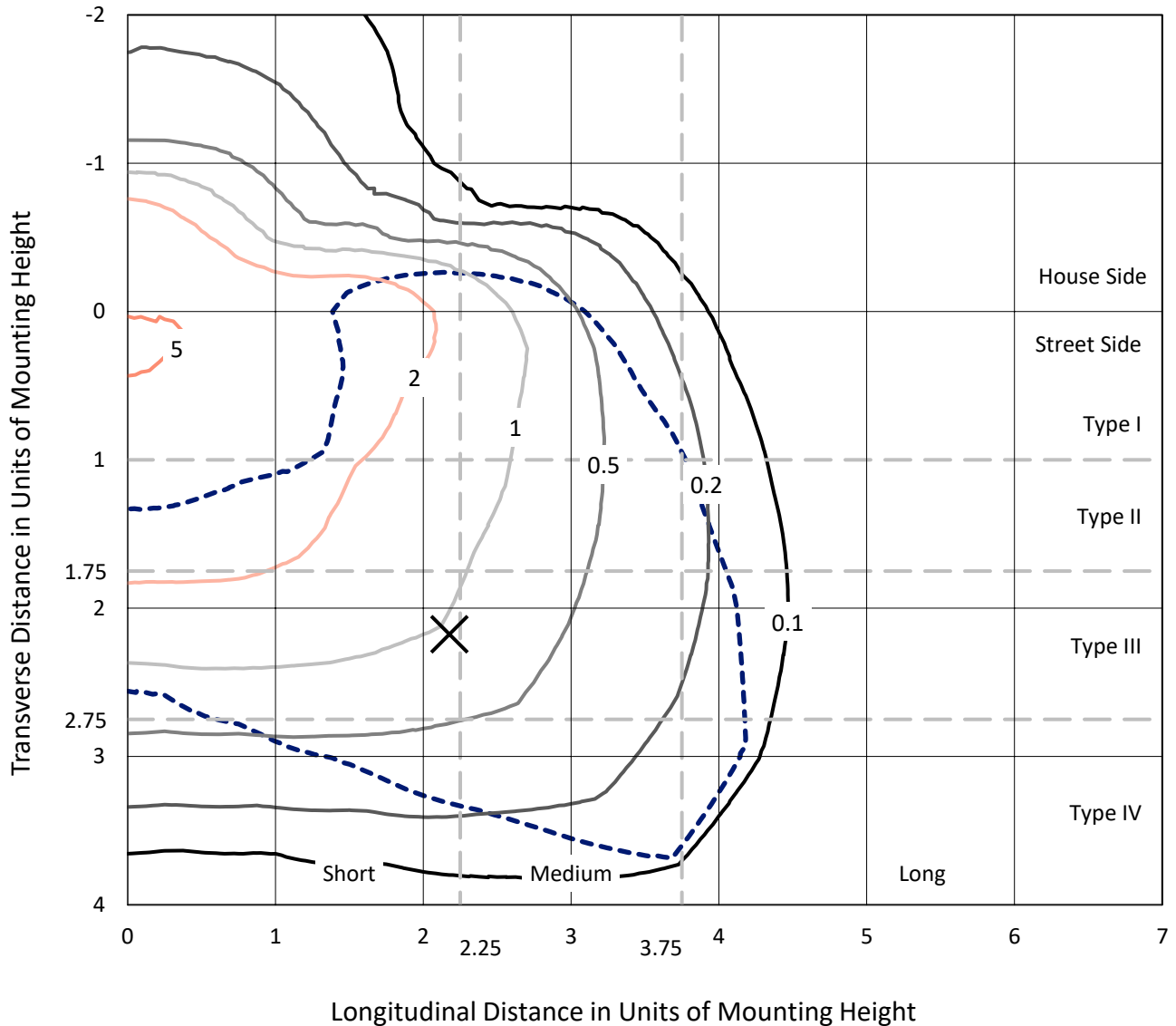
Lumens per Lamp: N/A
Luminaire Lumens: 28809.5 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (A_{in}): 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

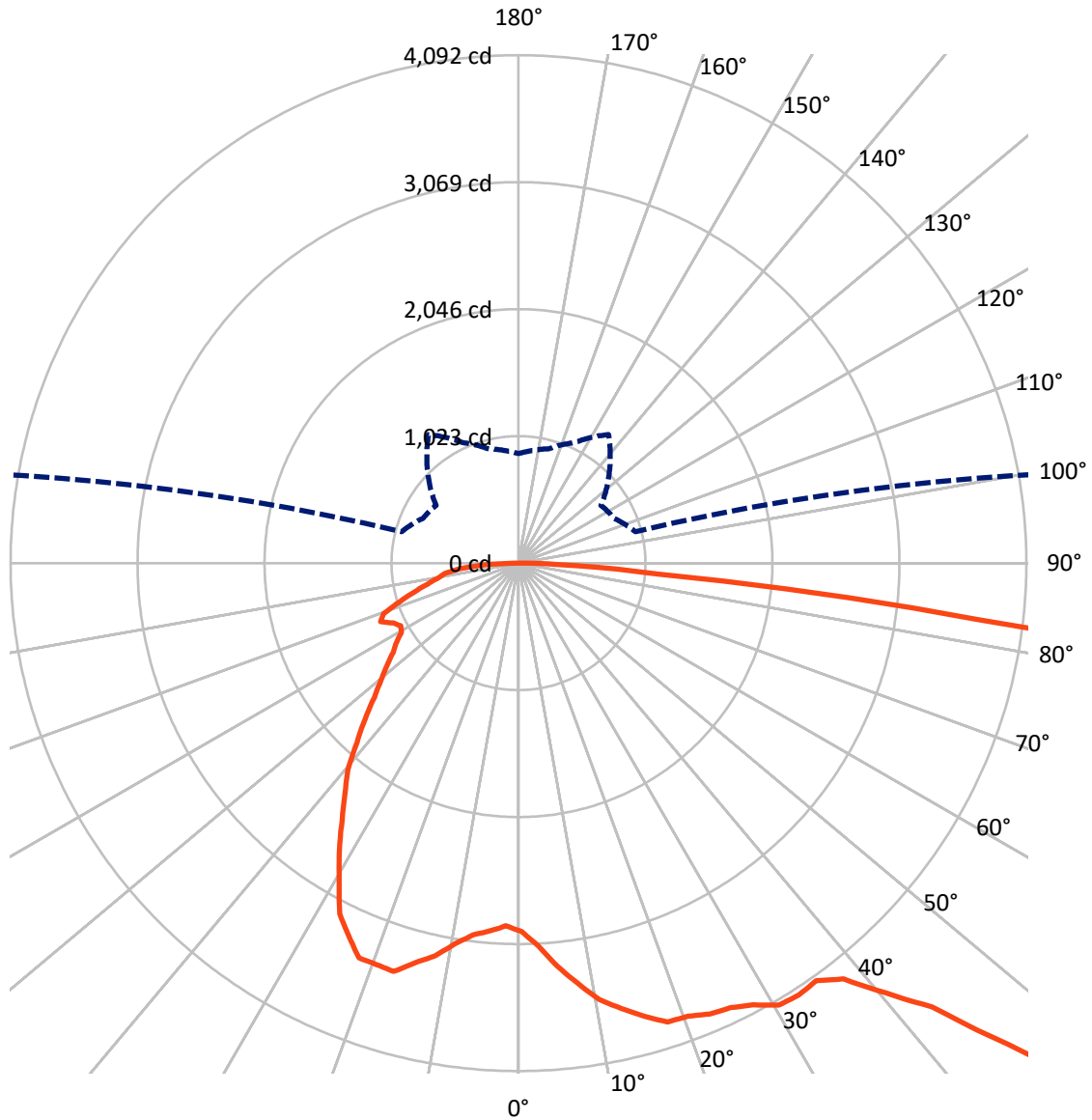
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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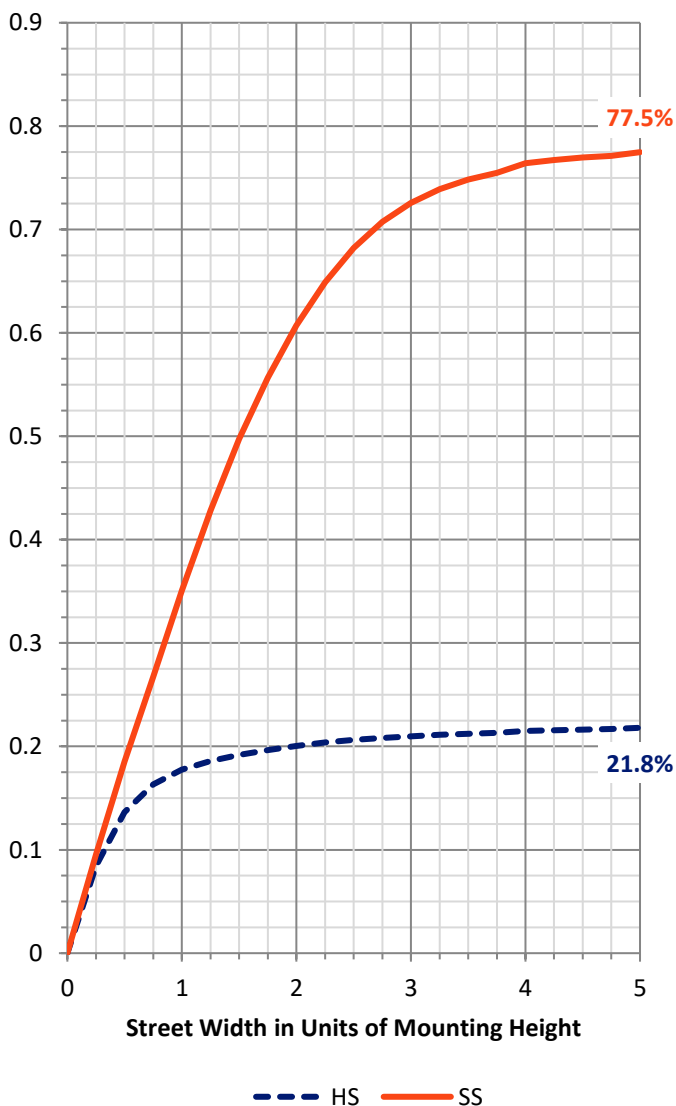
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6413.2	0.0	6413.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22396.3	0.0	22396.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	28809.5	0.0	28809.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.6	1.1
10°-20°	1010.1	3.5
20°-30°	1705.7	5.9
30°-40°	2360.4	8.2
40°-50°	3376.4	11.7
50°-60°	5445.7	18.9
60°-70°	8031.7	27.9
70°-80°	5832.4	20.2
80°-90°	743.5	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°	28809.5	100.0
0°-180°	28809.5	100.0

Coefficient of Utilization



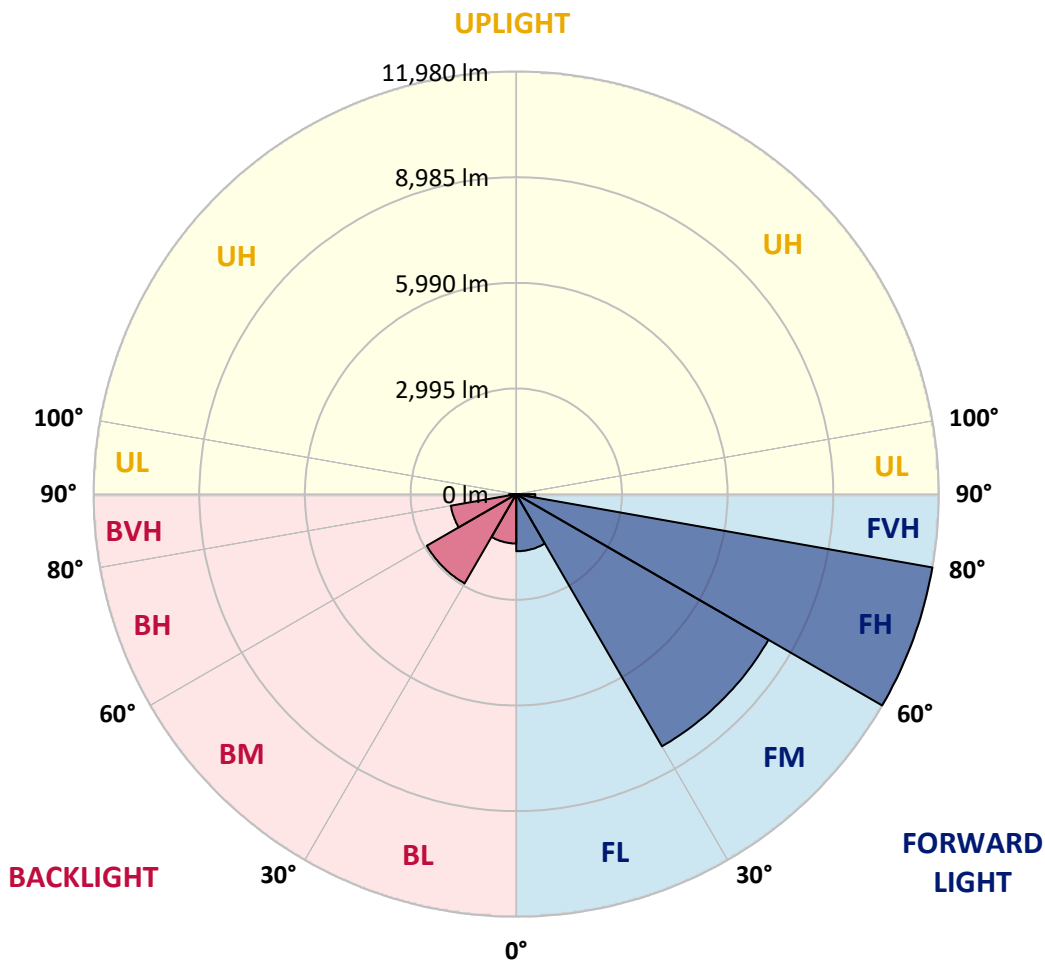
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.1	5.6			
FM (30°-60°)	8255.8	28.7			
FH (60°-80°)	11980.3	41.6			G4/12000
FVH (80°-90°)	541.2	1.9			G4/750
BL (0°-30°)	1400.3	4.9	B3/2500		
BM (30°-60°)	2926.8	10.2	B3/5000		
BH (60°-80°)	1883.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	202.3	0.7			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9
2.5°	3125.3	3143.9	3125.3	3122.2	3091.1	3069.4	3088.0	3060.1	3029.0	3016.6	2988.6
5°	3411.1	3414.2	3380.0	3383.1	3317.9	3249.6	3262.0	3178.1	3088.0	3053.8	2997.9
7.5°	3703.1	3669.0	3619.3	3603.7	3501.2	3426.6	3417.3	3342.8	3203.0	3125.3	3047.6
10°	3892.6	3905.1	3824.3	3755.9	3669.0	3578.9	3575.8	3436.0	3355.2	3240.2	3140.8
12.5°	4060.4	4063.5	3995.2	3886.4	3777.7	3665.9	3681.4	3619.3	3482.6	3373.8	3274.4
15°	4190.9	4172.2	4097.7	3998.3	3883.3	3796.3	3787.0	3734.2	3619.3	3529.2	3364.5
17.5°	4228.2	4218.8	4144.3	4038.7	3926.8	3861.6	3886.4	3799.4	3752.8	3672.1	3513.6
20°	4156.7	4135.0	4122.5	4004.5	3923.7	3917.5	3895.7	3914.4	3836.7	3762.2	3647.2
22.5°	4026.2	4016.9	4010.7	3917.5	3880.2	3908.2	3945.5	3973.4	3961.0	3889.5	3759.1
25°	3892.6	3936.1	3895.7	3852.3	3905.1	3976.5	3967.2	4057.3	4057.3	4035.5	3926.8
27.5°	3985.8	3957.9	3926.8	3905.1	3923.7	4035.5	4029.3	4138.1	4178.5	4138.1	4013.8
30°	4218.8	4190.9	4100.8	4004.5	3979.6	4100.8	4131.9	4228.2	4246.8	4147.4	4041.8
32.5°	4656.9	4641.3	4498.4	4215.7	4063.5	4131.9	4147.4	4256.1	4240.6	4178.5	4135.0
35°	5306.2	5253.4	5054.5	4576.1	4240.6	4172.2	4131.9	4218.8	4277.9	4246.8	4206.4
37.5°	6017.6	5958.6	5713.1	5107.3	4560.6	4281.0	4249.9	4321.4	4389.7	4374.2	4290.3
40°	6698.0	6698.0	6477.4	5772.2	5035.9	4545.0	4551.3	4470.5	4532.6	4504.7	4520.2
42.5°	7369.0	7344.1	7254.0	6551.9	5545.4	4986.2	4886.8	4684.8	4796.7	4787.4	4809.1
45°	8049.3	8030.7	8005.9	7278.9	6275.4	5582.7	5529.8	5166.4	5268.9	5225.4	5318.6
47.5°	8593.0	8614.8	8614.8	8089.7	7055.2	6378.0	6300.3	5725.6	5921.3	5943.0	5964.8
50°	9055.9	9065.2	9055.9	8863.3	7925.1	7288.2	7129.8	6545.7	6741.4	6912.3	7111.1
52.5°	9695.9	9708.3	9664.8	9590.2	9105.6	8245.1	8068.0	7418.7	7819.5	7999.6	8356.9
55°	10485.0	10391.8	10311.0	10366.9	10239.5	9298.2	9114.9	8319.6	8922.3	9161.5	9876.1
57.5°	10631.0	10711.8	10916.8	11361.0	11544.3	10323.4	10217.8	9425.6	10168.1	10376.2	11569.2
60°	11146.7	11013.1	11516.4	12479.4	12684.5	11659.3	11550.6	10637.2	11407.6	11625.1	13131.8
62.5°	11485.3	11479.1	12224.7	13367.9	13833.9	13044.9	12824.3	12212.3	12746.6	12957.9	14834.3
65°	11385.9	11476.0	12799.4	13889.9	14793.9	14619.9	14492.6	13566.8	14272.0	14253.3	15943.4
67.5°	10478.8	10733.5	12435.9	14265.8	16223.0	16539.8	16499.5	15471.2	15511.5	15117.0	16437.3
70°	9220.6	9133.6	10898.2	13874.3	16937.5	18817.0	18807.7	16887.8	16626.8	15306.5	15020.7
72°	7083.2	6986.9	8437.7	11914.0	16561.6	19727.3	20006.9	17869.5	16614.4	14520.5	12408.0
72.5°	6430.8	6346.9	7791.5	11215.0	16145.3	19963.4	19832.9	17906.8	16483.9	14150.8	11590.9
75°	2960.6	2864.3	3892.6	6865.7	12594.4	17689.3	18133.6	16757.3	14396.2	11264.7	6943.4
77.5°	882.3	854.3	1252.0	2771.1	7319.3	13032.4	13203.3	12644.1	10050.0	6169.8	2575.4
80°	490.9	494.0	646.2	1037.6	3218.5	7533.6	8148.8	7810.1	4930.3	2038.0	857.4
82.5°	273.4	288.9	403.9	615.1	1478.8	3457.7	3721.8	3588.2	1783.2	956.9	469.1
85°	142.9	149.1	211.3	329.3	838.8	1093.5	1124.6	1205.4	925.8	652.4	251.6
87.5°	55.9	55.9	77.7	136.7	310.7	338.6	304.5	369.7	531.2	422.5	124.3
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°	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9	2966.9
2.5°	3013.5	2988.6	2985.5	2945.1	2957.5	2923.4	2926.5	2920.3	2923.4	2917.2	2901.6
5°	2997.9	2979.3	2926.5	2960.6	2929.6	2973.1	3007.2	2994.8	3004.1	3001.0	3004.1
7.5°	3019.7	2994.8	2988.6	2970.0	2997.9	3016.6	3044.5	3122.2	3116.0	3125.3	3143.9
10°	3084.9	3057.0	3038.3	3066.3	3050.7	3109.8	3140.8	3181.2	3252.7	3255.8	3218.5
12.5°	3212.3	3193.6	3156.4	3162.6	3215.4	3234.0	3252.7	3277.5	3324.1	3314.8	3349.0
15°	3358.3	3317.9	3296.2	3289.9	3302.4	3324.1	3321.0	3345.9	3370.7	3392.5	3383.1
17.5°	3463.9	3411.1	3417.3	3448.4	3445.3	3439.1	3398.7	3386.3	3398.7	3411.1	3404.9
20°	3572.7	3578.9	3532.3	3504.3	3491.9	3429.7	3398.7	3361.4	3324.1	3342.8	3370.7
22.5°	3709.3	3681.4	3613.0	3529.2	3467.0	3429.7	3333.4	3268.2	3268.2	3286.8	3277.5
25°	3864.7	3805.7	3687.6	3535.4	3457.7	3299.3	3230.9	3221.6	3196.7	3224.7	3237.1
27.5°	3985.8	3933.0	3771.5	3513.6	3299.3	3171.9	3131.5	3119.1	3159.5	3162.6	3212.3
30°	4035.5	4020.0	3783.9	3457.7	3137.7	2932.7	2907.8	2963.8	3007.2	3072.5	3075.6
32.5°	4100.8	4107.0	3802.5	3327.2	2926.5	2721.4	2684.2	2752.5	2876.8	2929.6	2970.0
35°	4209.5	4240.6	3787.0	3165.7	2702.8	2507.1	2500.9	2519.5	2640.7	2733.9	2786.7
37.5°	4399.0	4392.8	3783.9	2973.1	2525.7	2320.7	2271.0	2277.2	2358.0	2435.6	2426.3
40°	4653.8	4628.9	3774.6	2721.4	2295.8	2162.2	2078.4	2047.3	2041.1	2019.3	2025.5
42.5°	5001.7	4952.0	3771.5	2466.7	2087.7	1944.8	1885.7	1805.0	1745.9	1634.1	1640.3
45°	5486.4	5399.4	3690.7	2227.5	1882.6	1764.6	1674.5	1615.5	1488.1	1348.3	1348.3
47.5°	6235.1	5952.4	3693.8	1963.4	1683.8	1587.5	1525.4	1422.8	1286.2	1174.3	1161.9
50°	7337.9	6691.7	3588.2	1755.3	1522.3	1457.0	1391.8	1273.7	1143.2	1065.6	1074.9
52.5°	8760.8	7794.6	3585.1	1568.9	1394.9	1348.3	1276.8	1171.2	1074.9	1025.2	1006.6
55°	10457.0	9254.7	3696.9	1416.6	1264.4	1239.6	1208.5	1121.5	1028.3	984.8	981.7
57.5°	12193.6	10680.7	3877.1	1307.9	1152.6	1171.2	1149.5	1081.1	1006.6	956.9	950.6
60°	13737.6	11811.5	3513.6	1177.4	1053.2	1093.5	1124.6	1065.6	1025.2	1022.1	1000.3
62.5°	14902.6	12296.1	2671.7	1078.0	1000.3	1074.9	1158.8	1196.1	1177.4	1202.3	1205.4
65°	15328.2	12004.1	1839.1	1025.2	960.0	1118.4	1304.8	1292.4	1183.6	1137.0	1161.9
67.5°	14731.8	10820.5	1363.8	963.1	932.0	1208.5	1388.7	1233.3	1068.7	1062.5	1043.8
70°	12668.9	9170.9	1112.2	897.8	885.4	1158.8	1351.4	1143.2	1006.6	966.2	947.5
72°	10093.5	7142.2	975.5	851.2	810.8	1034.5	1264.4	1071.8	953.7	904.0	882.3
72.5°	9214.3	6620.3	956.9	829.5	795.3	1006.6	1220.9	1050.1	941.3	897.8	863.7
75°	5054.5	3389.4	841.9	761.1	671.0	869.9	1130.8	984.8	888.5	826.4	820.2
77.5°	1879.5	1314.1	727.0	674.1	580.9	751.8	1028.3	935.1	807.7	730.1	714.5
80°	720.7	692.8	593.4	568.5	487.7	658.6	947.5	838.8	686.6	608.9	584.1
82.5°	438.0	403.9	450.5	444.3	372.8	599.6	891.6	786.0	608.9	494.0	478.4
85°	239.2	239.2	313.8	301.3	261.0	478.4	674.1	521.9	385.2	316.9	323.1
87.5°	105.6	124.3	167.8	158.4	142.9	270.3	329.3	276.5	192.6	130.5	139.8
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)