

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: P478600

Luminaire Tested: **IFLD-S-SA6A-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478600
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

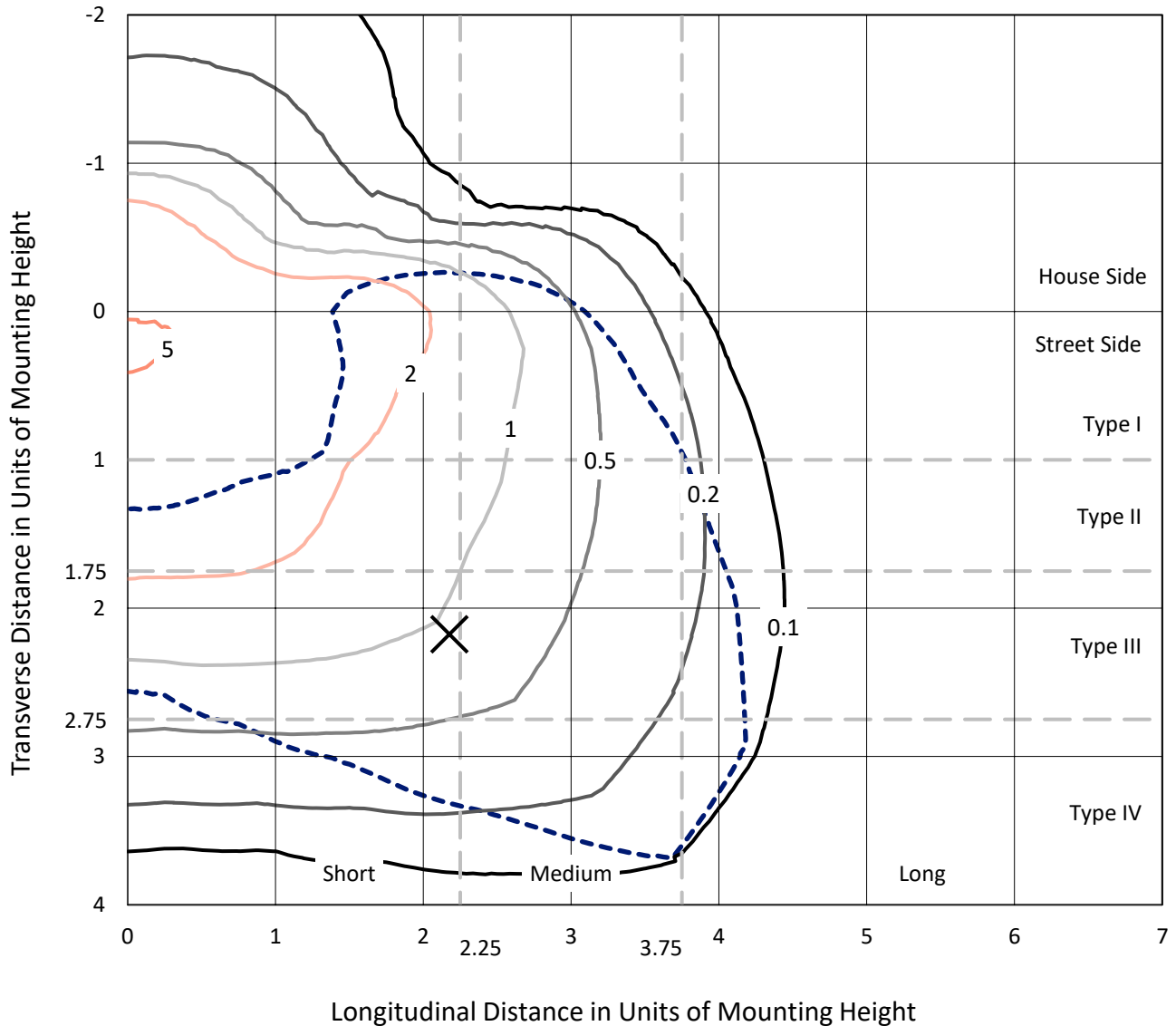
Lumens per Lamp: N/A
Luminaire Lumens: 27905.6 lumens
Efficiency: N/A
Efficacy: 147.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

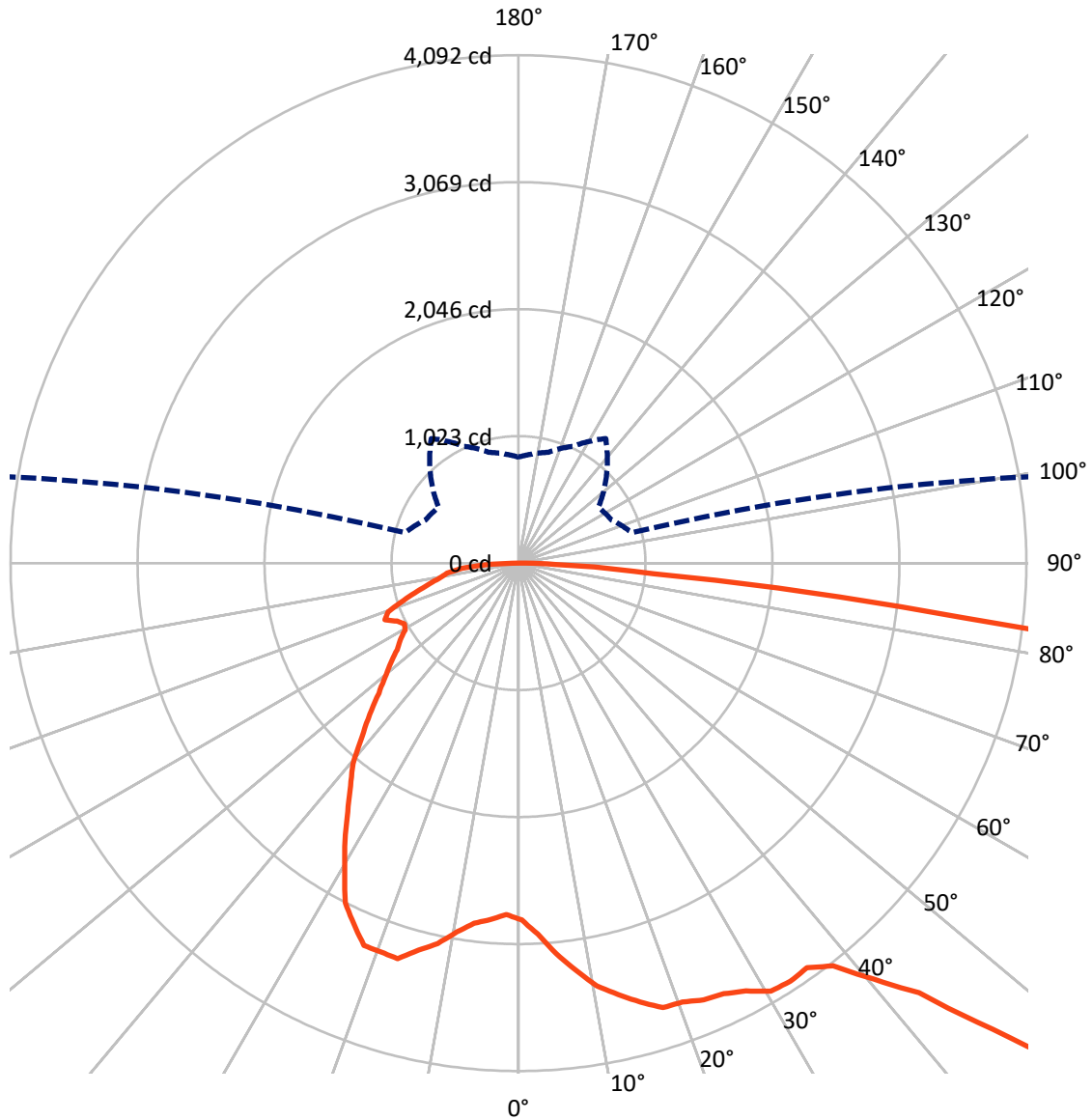
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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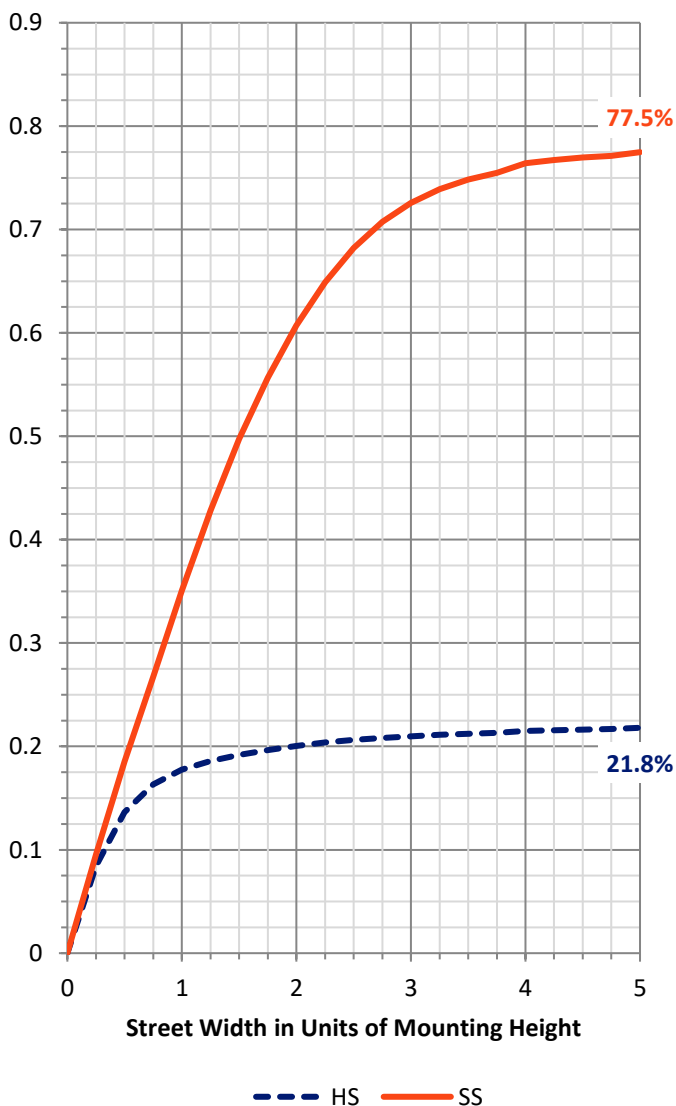
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6212.0	0.0	6212.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	21693.7	0.0	21693.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	27905.6	0.0	27905.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.1	1.1
10°-20°	978.4	3.5
20°-30°	1652.2	5.9
30°-40°	2286.4	8.2
40°-50°	3270.5	11.7
50°-60°	5274.9	18.9
60°-70°	7779.7	27.9
70°-80°	5649.4	20.2
80°-90°	720.2	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°	27905.6	100.0
0°-180°	27905.6	100.0

Coefficient of Utilization

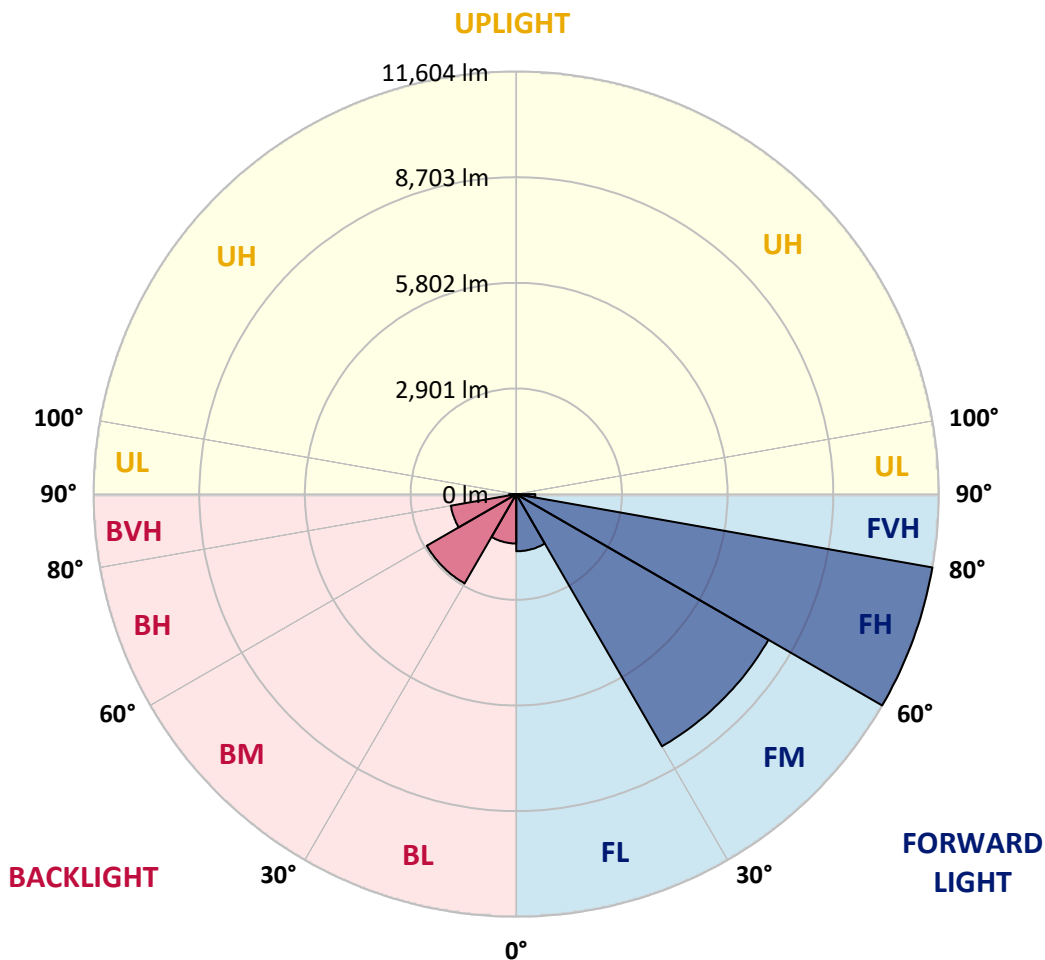


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.3	5.6			
FM (30°-60°)	7996.8	28.7			
FH (60°-80°)	11604.4	41.6			G4/12000
FVH (80°-90°)	524.2	1.9			G4/750
BL (0°-30°)	1356.3	4.9	B3/2500		
BM (30°-60°)	2835.0	10.2	B3/5000		
BH (60°-80°)	1824.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	196.0	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°	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8
2.5°	3027.2	3045.3	3027.2	3024.2	2994.1	2973.1	2991.1	2964.0	2934.0	2921.9	2894.8
5°	3304.1	3307.1	3274.0	3277.0	3213.8	3147.6	3159.6	3078.4	2991.1	2958.0	2903.9
7.5°	3587.0	3553.8	3505.7	3490.7	3391.4	3319.1	3310.1	3237.9	3102.5	3027.2	2952.0
10°	3770.5	3782.5	3704.3	3638.1	3553.8	3466.6	3463.6	3328.2	3249.9	3138.6	3042.3
12.5°	3933.0	3936.0	3869.8	3764.5	3659.2	3550.8	3565.9	3505.7	3373.3	3268.0	3171.7
15°	4059.4	4041.3	3969.1	3872.8	3761.5	3677.2	3668.2	3617.0	3505.7	3418.4	3258.9
17.5°	4095.5	4086.5	4014.3	3911.9	3803.6	3740.4	3764.5	3680.2	3635.1	3556.9	3403.4
20°	4026.3	4005.2	3993.2	3878.8	3800.6	3794.6	3773.5	3791.6	3716.3	3644.1	3532.8
22.5°	3899.9	3890.9	3884.9	3794.6	3758.5	3785.6	3821.7	3848.8	3836.7	3767.5	3641.1
25°	3770.5	3812.6	3773.5	3731.4	3782.5	3851.8	3842.7	3930.0	3930.0	3908.9	3803.6
27.5°	3860.8	3833.7	3803.6	3782.5	3800.6	3908.9	3902.9	4008.2	4047.4	4008.2	3887.9
30°	4086.5	4059.4	3972.1	3878.8	3854.8	3972.1	4002.2	4095.5	4113.6	4017.3	3915.0
32.5°	4510.8	4495.7	4357.3	4083.5	3936.0	4002.2	4017.3	4122.6	4107.5	4047.4	4005.2
35°	5139.7	5088.5	4895.9	4432.5	4107.5	4041.3	4002.2	4086.5	4143.7	4113.6	4074.4
37.5°	5828.8	5771.6	5533.9	4947.1	4417.5	4146.7	4116.6	4185.8	4252.0	4236.9	4155.7
40°	6487.8	6487.8	6274.2	5591.1	4877.9	4402.4	4408.5	4330.2	4390.4	4363.3	4378.4
42.5°	7137.8	7113.7	7026.5	6346.4	5371.4	4829.7	4733.5	4537.9	4646.2	4637.2	4658.2
45°	7796.8	7778.7	7754.7	7050.5	6078.6	5407.5	5356.4	5004.3	5103.6	5061.5	5151.7
47.5°	8323.4	8344.5	8344.5	7835.9	6833.9	6177.9	6102.6	5545.9	5735.5	5756.6	5777.6
50°	8771.8	8780.8	8771.8	8585.2	7676.4	7059.6	6906.1	6340.4	6529.9	6695.4	6888.0
52.5°	9391.7	9403.7	9361.6	9289.4	8819.9	7986.4	7814.9	7185.9	7574.1	7748.7	8094.7
55°	10156.0	10065.7	9987.5	10041.7	9918.3	9006.5	8829.0	8058.6	8642.4	8874.1	9566.2
57.5°	10297.4	10375.7	10574.3	11004.6	11182.1	9999.5	9897.2	9129.9	9849.1	10050.7	11206.2
60°	10797.0	10667.6	11155.1	12087.9	12286.5	11293.5	11188.2	10303.5	11049.7	11260.4	12719.8
62.5°	11125.0	11118.9	11841.2	12948.5	13399.9	12635.6	12421.9	11829.1	12346.7	12551.3	14368.9
65°	11028.7	11115.9	12397.9	13454.1	14329.7	14161.2	14037.9	13141.1	13824.2	13806.1	15443.1
67.5°	10150.0	10396.7	12045.8	13818.2	15714.0	16020.9	15981.8	14985.8	15024.9	14642.7	15921.6
70°	8931.3	8847.0	10556.2	13439.0	16406.1	18226.6	18217.6	16357.9	16105.2	14826.3	14549.4
72°	6860.9	6767.7	8173.0	11540.2	16042.0	19108.3	19379.2	17308.8	16093.1	14064.9	12018.7
72.5°	6229.0	6147.8	7547.0	10863.2	15638.7	19337.0	19210.6	17345.0	15966.7	13706.8	11227.3
75°	2867.8	2774.5	3770.5	6650.3	12199.2	17134.3	17564.6	16231.6	13944.6	10911.3	6725.5
77.5°	854.6	827.5	1212.7	2684.2	7089.6	12623.5	12789.0	12247.4	9734.7	5976.2	2494.6
80°	475.5	478.5	625.9	1005.1	3117.5	7297.3	7893.1	7565.1	4775.6	1974.0	830.5
82.5°	264.8	279.9	391.2	595.8	1432.4	3349.2	3605.0	3475.6	1727.3	926.8	454.4
85°	138.4	144.4	204.6	319.0	812.5	1059.2	1089.3	1167.6	896.7	631.9	243.7
87.5°	54.2	54.2	75.2	132.4	300.9	328.0	294.9	358.1	514.6	409.2	120.4
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°	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8	2873.8
2.5°	2918.9	2894.8	2891.8	2852.7	2864.7	2831.6	2834.7	2828.6	2831.6	2825.6	2810.6
5°	2903.9	2885.8	2834.7	2867.8	2837.7	2879.8	2912.9	2900.9	2909.9	2906.9	2909.9
7.5°	2924.9	2900.9	2894.8	2876.8	2903.9	2921.9	2949.0	3024.2	3018.2	3027.2	3045.3
10°	2988.1	2961.0	2943.0	2970.1	2955.0	3012.2	3042.3	3081.4	3150.6	3153.6	3117.5
12.5°	3111.5	3093.4	3057.3	3063.4	3114.5	3132.6	3150.6	3174.7	3219.8	3210.8	3243.9
15°	3252.9	3213.8	3192.7	3186.7	3198.8	3219.8	3216.8	3240.9	3265.0	3286.0	3277.0
17.5°	3355.2	3304.1	3310.1	3340.2	3337.2	3331.2	3292.1	3280.0	3292.1	3304.1	3298.1
20°	3460.6	3466.6	3421.4	3394.4	3382.3	3322.1	3292.1	3255.9	3219.8	3237.9	3265.0
22.5°	3593.0	3565.9	3499.7	3418.4	3358.3	3322.1	3228.9	3165.7	3165.7	3183.7	3174.7
25°	3743.4	3686.3	3571.9	3424.5	3349.2	3195.8	3129.6	3120.5	3096.5	3123.5	3135.6
27.5°	3860.8	3809.6	3653.2	3403.4	3195.8	3072.4	3033.3	3021.2	3060.3	3063.4	3111.5
30°	3908.9	3893.9	3665.2	3349.2	3039.3	2840.7	2816.6	2870.8	2912.9	2976.1	2979.1
32.5°	3972.1	3978.1	3683.2	3222.8	2834.7	2636.0	2599.9	2666.1	2786.5	2837.7	2876.8
35°	4077.4	4107.5	3668.2	3066.4	2618.0	2428.4	2422.4	2440.5	2557.8	2648.1	2699.2
37.5°	4261.0	4255.0	3665.2	2879.8	2446.5	2247.9	2199.7	2205.7	2284.0	2359.2	2350.2
40°	4507.8	4483.7	3656.2	2636.0	2223.8	2094.4	2013.1	1983.1	1977.0	1956.0	1962.0
42.5°	4844.8	4796.6	3653.2	2389.3	2022.2	1883.8	1826.6	1748.3	1691.2	1582.8	1588.9
45°	5314.2	5230.0	3574.9	2157.6	1823.6	1709.2	1622.0	1564.8	1441.4	1306.0	1306.0
47.5°	6039.4	5765.6	3577.9	1901.8	1631.0	1537.7	1477.5	1378.2	1245.8	1137.5	1125.4
50°	7107.7	6481.8	3475.6	1700.2	1474.5	1411.3	1348.1	1233.8	1107.4	1032.2	1041.2
52.5°	8485.9	7550.0	3472.6	1519.6	1351.1	1306.0	1236.8	1134.5	1041.2	993.0	975.0
55°	10128.9	8964.4	3580.9	1372.2	1224.7	1200.7	1170.6	1086.3	996.0	953.9	950.9
57.5°	11811.1	10345.6	3755.5	1266.9	1116.4	1134.5	1113.4	1047.2	975.0	926.8	920.8
60°	13306.6	11440.9	3403.4	1140.5	1020.1	1059.2	1089.3	1032.2	993.0	990.0	969.0
62.5°	14435.1	11910.4	2587.9	1044.2	969.0	1041.2	1122.4	1158.5	1140.5	1164.6	1167.6
65°	14847.3	11627.5	1781.4	993.0	929.8	1083.3	1263.9	1251.8	1146.5	1101.4	1125.4
67.5°	14269.6	10481.0	1321.0	932.8	902.8	1170.6	1345.1	1194.6	1035.2	1029.1	1011.1
70°	12271.5	8883.1	1077.3	869.7	857.6	1122.4	1309.0	1107.4	975.0	935.9	917.8
72°	9776.8	6918.1	944.9	824.5	785.4	1002.1	1224.7	1038.2	923.8	875.7	854.6
72.5°	8925.2	6412.6	926.8	803.5	770.4	975.0	1182.6	1017.1	911.8	869.7	836.6
75°	4895.9	3283.0	815.5	737.3	650.0	842.6	1095.3	953.9	860.6	800.4	794.4
77.5°	1820.6	1272.9	704.1	653.0	562.7	728.2	996.0	905.8	782.4	707.2	692.1
80°	698.1	671.0	574.8	550.7	472.4	637.9	917.8	812.5	665.0	589.8	565.7
82.5°	424.3	391.2	436.3	430.3	361.1	580.8	863.6	761.3	589.8	478.5	463.4
85°	231.7	231.7	303.9	291.9	252.8	463.4	653.0	505.5	373.1	306.9	313.0
87.5°	102.3	120.4	162.5	153.5	138.4	261.8	319.0	267.8	186.6	126.4	135.4
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)