

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: P478726

Luminaire Tested: **IFLD-M-SA4E-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478726
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

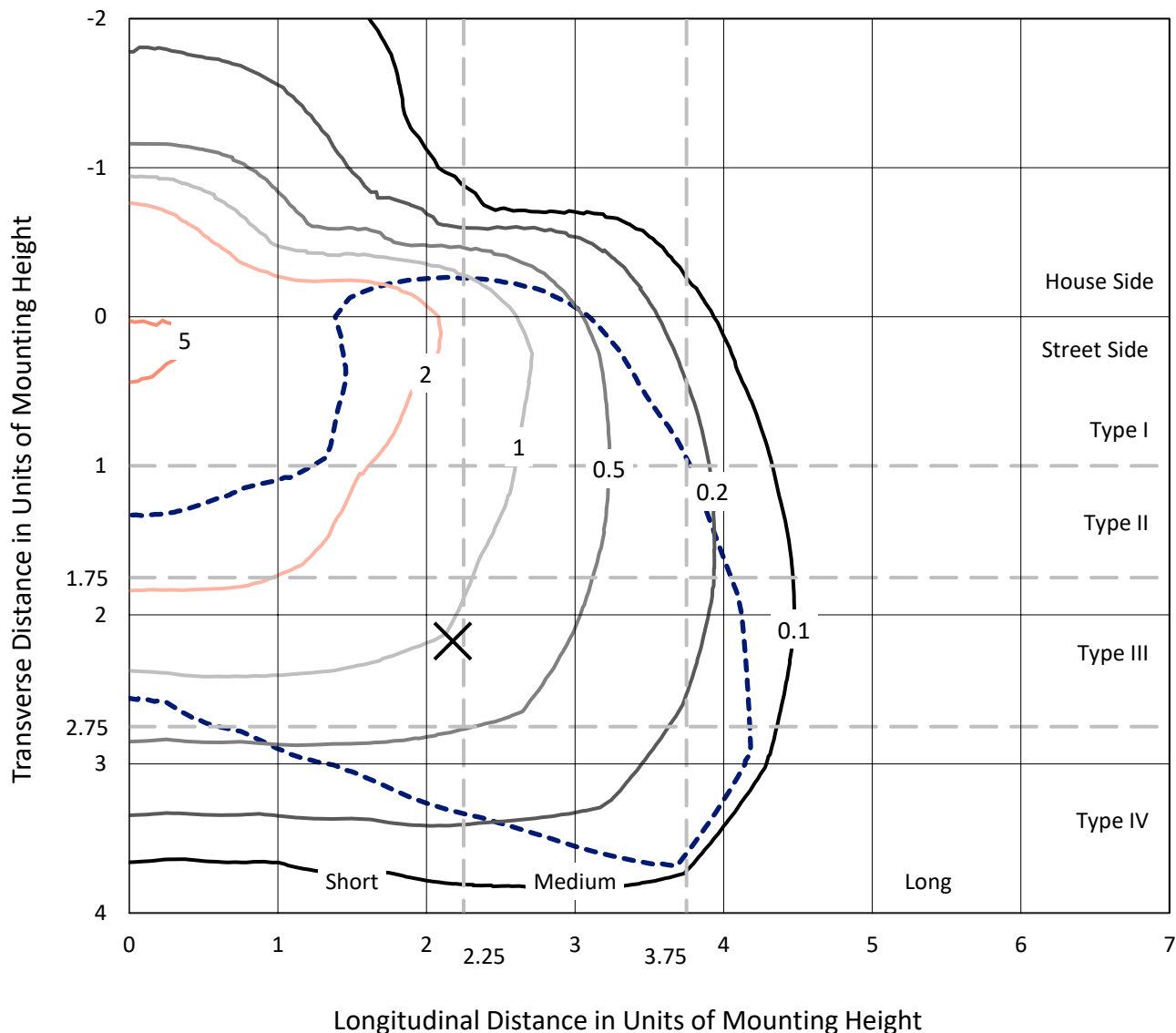
Lumens per Lamp: N/A
Luminaire Lumens: 29078.3 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 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

REPORT NUMBER: P478726
 CATALOG NUMBER: IFLD-M-SA4E-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

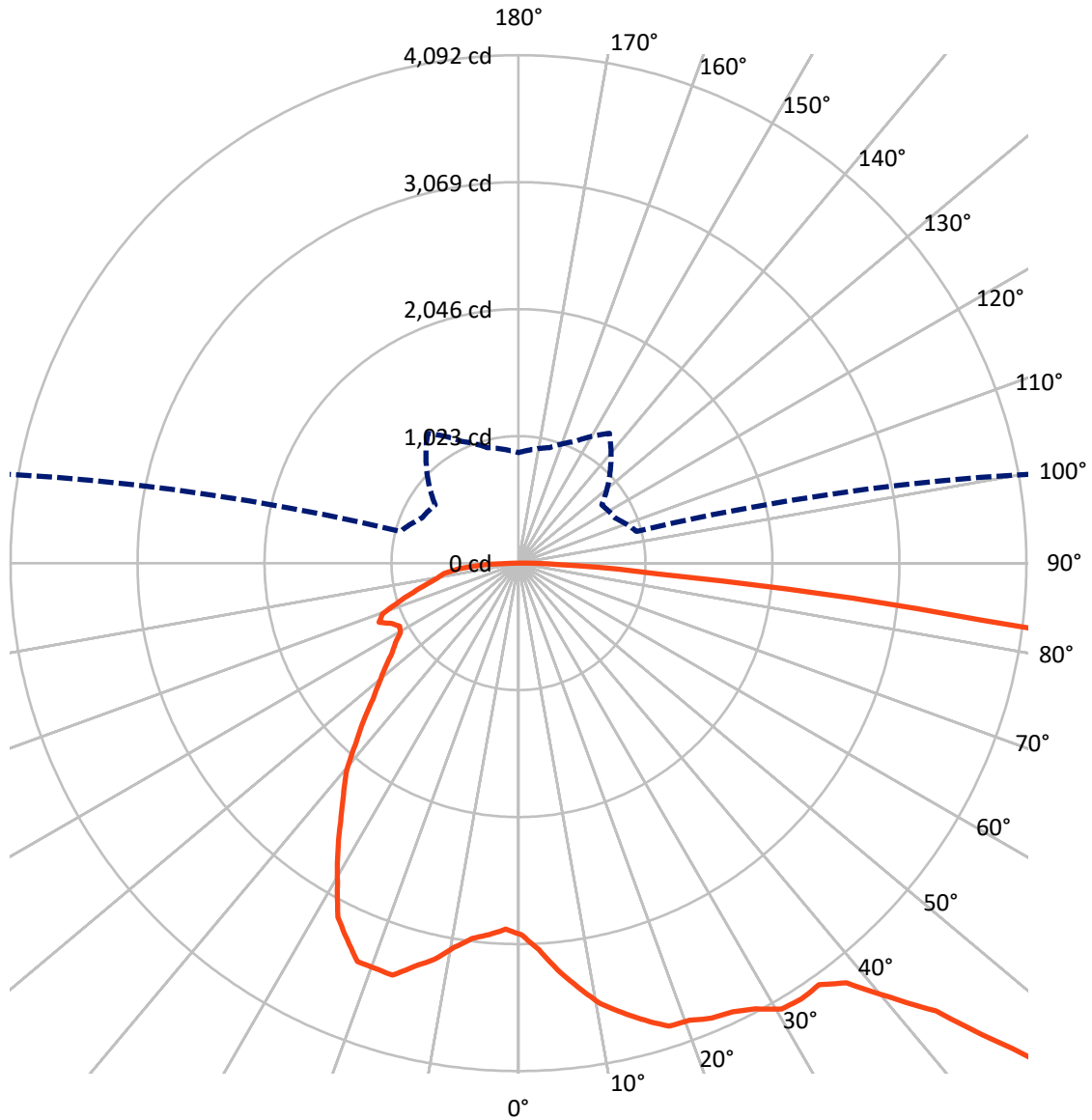
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P478726
CATALOG NUMBER: IFLD-M-SA4E-830-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478726

CATALOG NUMBER: IFLD-M-SA4E-830-U-T4W

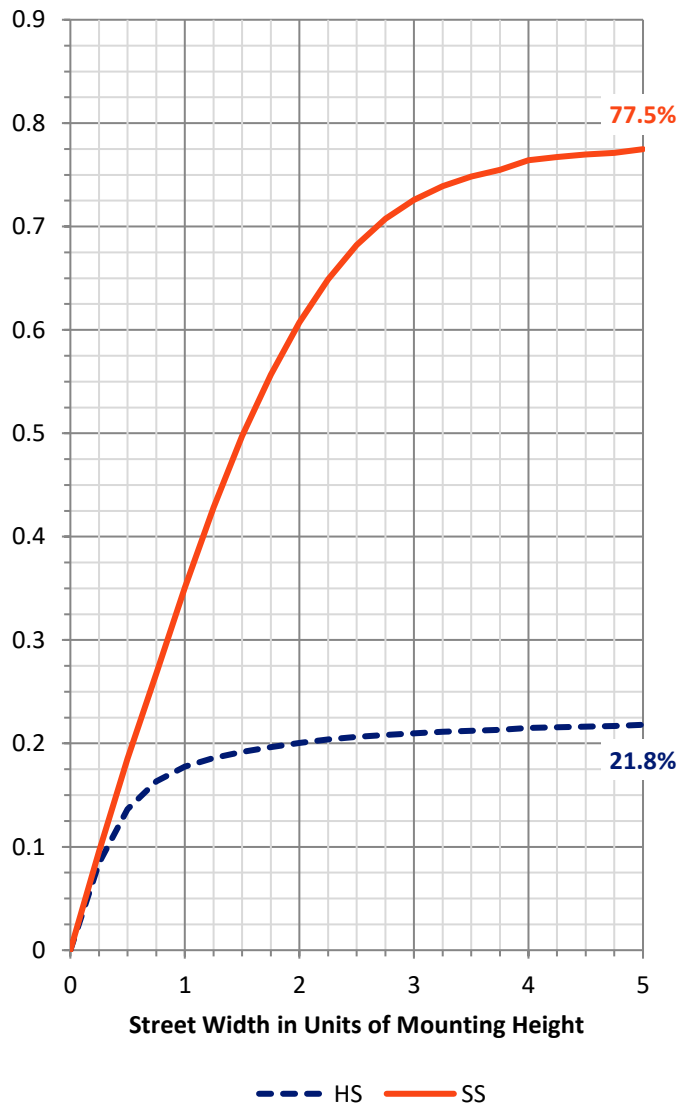
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6473.0	0.0	6473.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22605.3	0.0	22605.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	29078.3	0.0	29078.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	1.1
10°-20°	1019.5	3.5
20°-30°	1721.6	5.9
30°-40°	2382.5	8.2
40°-50°	3407.9	11.7
50°-60°	5496.5	18.9
60°-70°	8106.6	27.9
70°-80°	5886.8	20.2
80°-90°	750.4	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°	29078.3	100.0
0°-180°	29078.3	100.0

Coefficient of Utilization



REPORT NUMBER: P478726

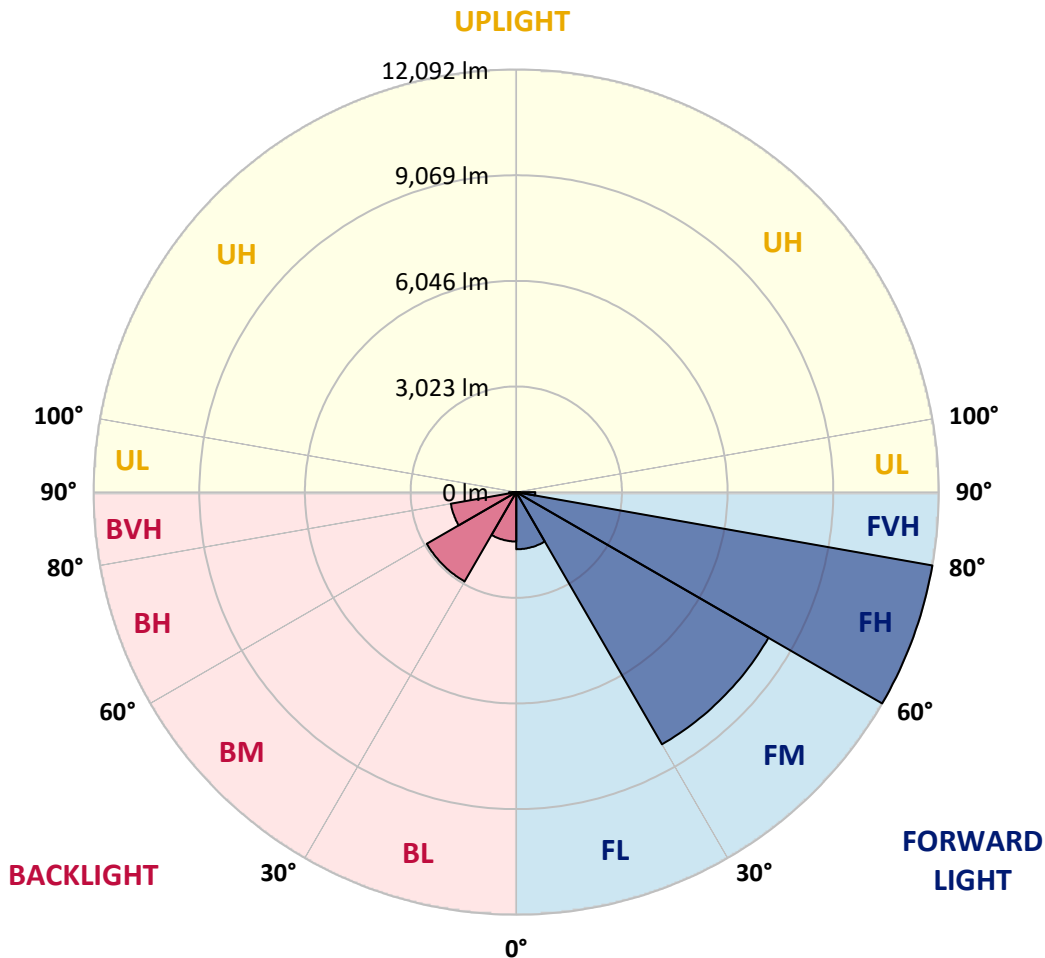
CATALOG NUMBER: IFLD-M-SA4E-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1634.2	5.6			
FM (30°-60°)	8332.8	28.7			
FH (60°-80°)	12092.1	41.6			G5
FVH (80°-90°)	546.2	1.9			G4/750
BL (0°-30°)	1413.3	4.9	B3/2500		
BM (30°-60°)	2954.1	10.2	B3/5000		
BH (60°-80°)	1901.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	204.2	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-G5

Type IV Short





REPORT NUMBER: P478726
 CATALOG NUMBER: IFLD-M-SA4E-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5
2.5°	3154.5	3173.3	3154.5	3151.3	3120.0	3098.0	3116.8	3088.6	3057.2	3044.7	3016.5
5°	3442.9	3446.1	3411.6	3414.7	3348.9	3279.9	3292.4	3207.8	3116.8	3082.3	3025.9
7.5°	3737.7	3703.2	3653.0	3637.3	3533.9	3458.6	3449.2	3373.9	3232.8	3154.5	3076.1
10°	3929.0	3941.5	3860.0	3791.0	3703.2	3612.3	3609.1	3468.0	3386.5	3270.5	3170.1
12.5°	4098.3	4101.4	4032.4	3922.7	3812.9	3700.1	3715.7	3653.0	3515.1	3405.3	3305.0
15°	4230.0	4211.2	4135.9	4035.6	3919.6	3831.8	3822.3	3769.0	3653.0	3562.1	3395.9
17.5°	4267.6	4258.2	4182.9	4076.3	3963.4	3897.6	3922.7	3834.9	3787.9	3706.3	3546.4
20°	4195.5	4173.5	4161.0	4041.8	3960.3	3954.0	3932.1	3950.9	3872.5	3797.3	3681.2
22.5°	4063.8	4054.4	4048.1	3954.0	3916.4	3944.6	3982.3	4010.5	3997.9	3925.8	3794.1
25°	3929.0	3972.9	3932.1	3888.2	3941.5	4013.6	4004.2	4095.1	4095.1	4073.2	3963.4
27.5°	4023.0	3994.8	3963.4	3941.5	3960.3	4073.2	4066.9	4176.7	4217.4	4176.7	4051.2
30°	4258.2	4230.0	4139.0	4041.8	4016.8	4139.0	4170.4	4267.6	4286.4	4186.1	4079.5
32.5°	4700.3	4684.6	4540.4	4255.1	4101.4	4170.4	4186.1	4295.8	4280.1	4217.4	4173.5
35°	5355.7	5302.4	5101.7	4618.8	4280.1	4211.2	4170.4	4258.2	4317.8	4286.4	4245.7
37.5°	6073.7	6014.2	5766.4	5155.0	4603.1	4320.9	4289.6	4361.7	4430.7	4415.0	4330.3
40°	6760.4	6760.4	6537.8	5826.0	5082.9	4587.4	4593.7	4512.2	4574.9	4546.7	4562.4
42.5°	7437.7	7412.7	7321.7	6613.1	5597.1	5032.7	4932.4	4728.5	4841.4	4832.0	4854.0
45°	8124.4	8105.6	8080.5	7346.8	6334.0	5634.7	5581.4	5214.6	5318.0	5274.1	5368.2
47.5°	8673.2	8695.1	8695.1	8165.2	7121.0	6437.5	6359.1	5779.0	5976.5	5998.5	6020.4
50°	9140.4	9149.8	9140.4	8946.0	7999.0	7356.2	7196.3	6606.8	6804.3	6976.8	7177.5
52.5°	9786.3	9798.9	9755.0	9679.7	9190.6	8322.0	8143.3	7487.9	7892.4	8074.3	8434.9
55°	10582.8	10488.7	10407.2	10463.6	10335.1	9385.0	9200.0	8397.2	9005.6	9247.0	9968.2
57.5°	10730.2	10811.7	11018.6	11467.0	11652.0	10419.7	10313.1	9513.5	10263.0	10473.0	11677.1
60°	11250.7	11115.8	11623.8	12595.9	12802.8	11768.1	11658.3	10736.4	11514.1	11733.6	13254.4
62.5°	11592.5	11586.2	12338.7	13492.7	13963.0	13166.6	12943.9	12326.2	12865.5	13078.8	14972.7
65°	11492.1	11583.1	12918.8	14019.4	14931.9	14756.3	14627.8	13693.3	14405.1	14386.3	16092.1
67.5°	10576.5	10833.6	12552.0	14398.9	16374.3	16694.1	16653.4	15615.5	15656.3	15258.0	16590.7
70°	9306.6	9218.8	10999.8	14003.8	17095.5	18992.6	18983.2	17045.3	16781.9	15449.3	15160.8
72°	7149.3	7052.1	8516.4	12025.2	16716.1	19911.3	20193.5	18036.2	16769.4	14656.0	12523.7
72.5°	6490.8	6406.1	7864.2	11319.7	16295.9	20149.6	20017.9	18073.8	16637.7	14282.8	11699.1
75°	2988.3	2891.1	3929.0	6929.8	12711.9	17854.3	18302.7	16913.6	14530.6	11369.8	7008.2
77.5°	890.5	862.3	1263.7	2797.0	7387.6	13154.0	13326.5	12762.1	10143.8	6227.4	2599.4
80°	495.4	498.6	652.2	1047.3	3248.5	7603.9	8224.8	7883.0	4976.3	2057.0	865.4
82.5°	275.9	291.6	407.6	620.9	1492.6	3490.0	3756.5	3621.7	1799.9	965.8	473.5
85°	144.2	150.5	213.2	332.4	846.6	1103.7	1135.1	1216.6	934.4	658.5	254.0
87.5°	56.4	56.4	78.4	138.0	313.6	341.8	307.3	373.1	536.2	426.4	125.4
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: P478726
 CATALOG NUMBER: IFLD-M-SA4E-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5	2994.5
2.5°	3041.6	3016.5	3013.4	2972.6	2985.1	2950.6	2953.8	2947.5	2950.6	2944.4	2928.7
5°	3025.9	3007.1	2953.8	2988.3	2956.9	3000.8	3035.3	3022.8	3032.2	3029.0	3032.2
7.5°	3047.8	3022.8	3016.5	2997.7	3025.9	3044.7	3072.9	3151.3	3145.0	3154.5	3173.3
10°	3113.7	3085.5	3066.7	3094.9	3079.2	3138.8	3170.1	3210.9	3283.0	3286.2	3248.5
12.5°	3242.3	3223.4	3185.8	3192.1	3245.4	3264.2	3283.0	3308.1	3355.1	3345.7	3380.2
15°	3389.6	3348.9	3326.9	3320.6	3333.2	3355.1	3352.0	3377.1	3402.2	3424.1	3414.7
17.5°	3496.2	3442.9	3449.2	3480.6	3477.4	3471.2	3430.4	3417.8	3430.4	3442.9	3436.7
20°	3606.0	3612.3	3565.2	3537.0	3524.5	3461.7	3430.4	3392.8	3355.1	3373.9	3402.2
22.5°	3744.0	3715.7	3646.7	3562.1	3499.4	3461.7	3364.5	3298.7	3298.7	3317.5	3308.1
25°	3900.7	3841.2	3722.0	3568.4	3490.0	3330.1	3261.1	3251.7	3226.6	3254.8	3267.3
27.5°	4023.0	3969.7	3806.7	3546.4	3330.1	3201.5	3160.7	3148.2	3188.9	3192.1	3242.3
30°	4073.2	4057.5	3819.2	3490.0	3167.0	2960.0	2935.0	2991.4	3035.3	3101.1	3104.3
32.5°	4139.0	4145.3	3838.0	3358.3	2953.8	2746.8	2709.2	2778.2	2903.6	2956.9	2997.7
35°	4248.8	4280.1	3822.3	3195.2	2728.0	2530.5	2524.2	2543.0	2665.3	2759.4	2812.7
37.5°	4440.1	4433.8	3819.2	3000.8	2549.3	2342.3	2292.2	2298.4	2380.0	2458.3	2448.9
40°	4697.2	4672.1	3809.8	2746.8	2317.2	2182.4	2097.7	2066.4	2060.1	2038.2	2044.4
42.5°	5048.4	4998.2	3806.7	2489.7	2107.2	1962.9	1903.3	1821.8	1762.2	1649.3	1655.6
45°	5537.5	5449.7	3725.1	2248.3	1900.2	1781.0	1690.1	1630.5	1502.0	1360.9	1360.9
47.5°	6293.2	6007.9	3728.3	1981.7	1699.5	1602.3	1539.6	1436.1	1298.2	1185.3	1172.7
50°	7406.4	6754.2	3621.7	1771.6	1536.5	1470.6	1404.8	1285.6	1153.9	1075.5	1084.9
52.5°	8842.5	7867.3	3618.5	1583.5	1407.9	1360.9	1288.7	1182.1	1084.9	1034.8	1015.9
55°	10554.6	9341.1	3731.4	1429.9	1276.2	1251.1	1219.8	1132.0	1037.9	994.0	990.9
57.5°	12307.4	10780.3	3913.3	1320.1	1163.3	1182.1	1160.2	1091.2	1015.9	965.8	959.5
60°	13865.8	11921.7	3546.4	1188.4	1063.0	1103.7	1135.1	1075.5	1034.8	1031.6	1009.7
62.5°	15041.7	12410.9	2696.7	1088.1	1009.7	1084.9	1169.6	1207.2	1188.4	1213.5	1216.6
65°	15471.2	12116.1	1856.3	1034.8	968.9	1128.8	1317.0	1304.4	1194.7	1147.6	1172.7
67.5°	14869.2	10921.4	1376.5	972.0	940.7	1219.8	1401.6	1244.8	1078.7	1072.4	1053.6
70°	12787.1	9256.4	1122.6	906.2	893.7	1169.6	1364.0	1153.9	1015.9	975.2	956.4
72°	10187.7	7208.8	984.6	859.2	818.4	1044.2	1276.2	1081.8	962.6	912.5	890.5
72.5°	9300.3	6682.0	965.8	837.2	802.7	1015.9	1232.3	1059.8	950.1	906.2	871.7
75°	5101.7	3421.0	849.8	768.2	677.3	878.0	1141.4	994.0	896.8	834.1	827.8
77.5°	1897.1	1326.4	733.7	680.4	586.4	758.8	1037.9	943.8	815.3	736.9	721.2
80°	727.5	699.2	598.9	573.8	492.3	664.8	956.4	846.6	693.0	614.6	589.5
82.5°	442.1	407.6	454.7	448.4	376.3	605.2	899.9	793.3	614.6	498.6	482.9
85°	241.4	241.4	316.7	304.2	263.4	482.9	680.4	526.8	388.8	319.8	326.1
87.5°	106.6	125.4	169.3	159.9	144.2	272.8	332.4	279.1	194.4	131.7	141.1
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)