

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: P478727

Luminaire Tested: **IFLD-L-SA7A-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478727
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

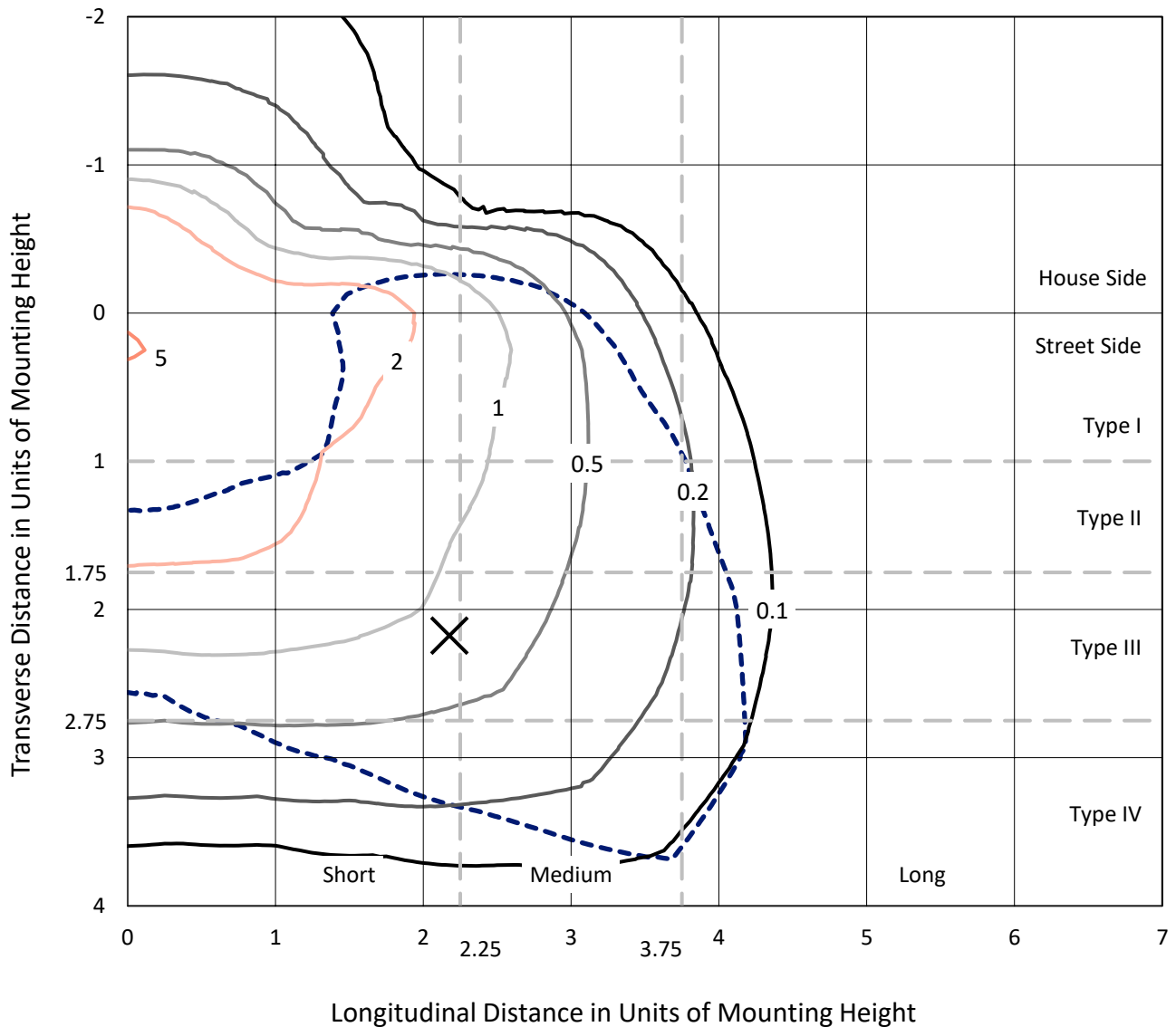
Lumens per Lamp: N/A
Luminaire Lumens: 25139.5 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (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: P478727
 CATALOG NUMBER: IFLD-L-SA7A-830-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

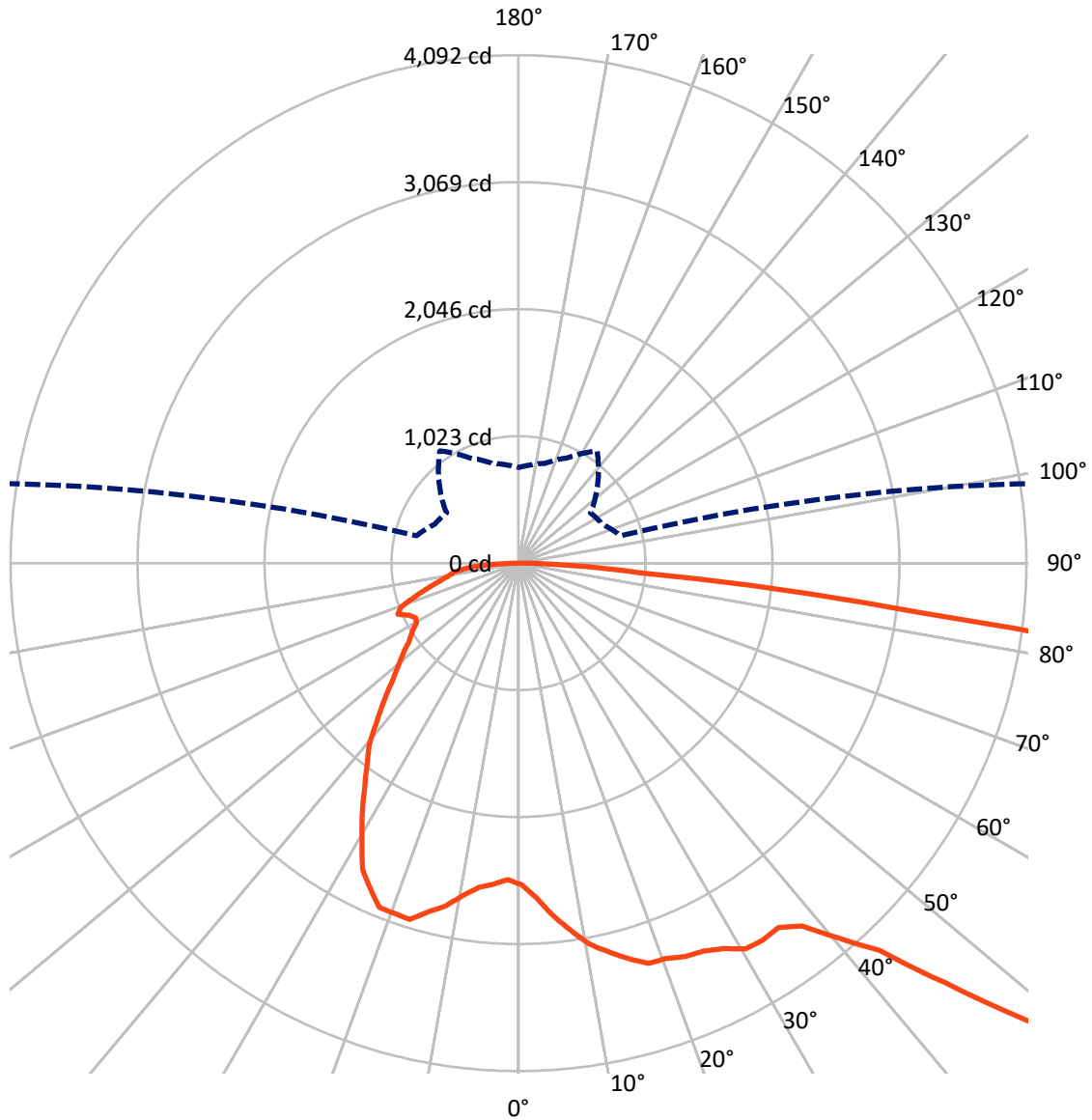
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P478727
CATALOG NUMBER: IFLD-L-SA7A-830-U-T4W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478727

CATALOG NUMBER: IFLD-L-SA7A-830-U-T4W

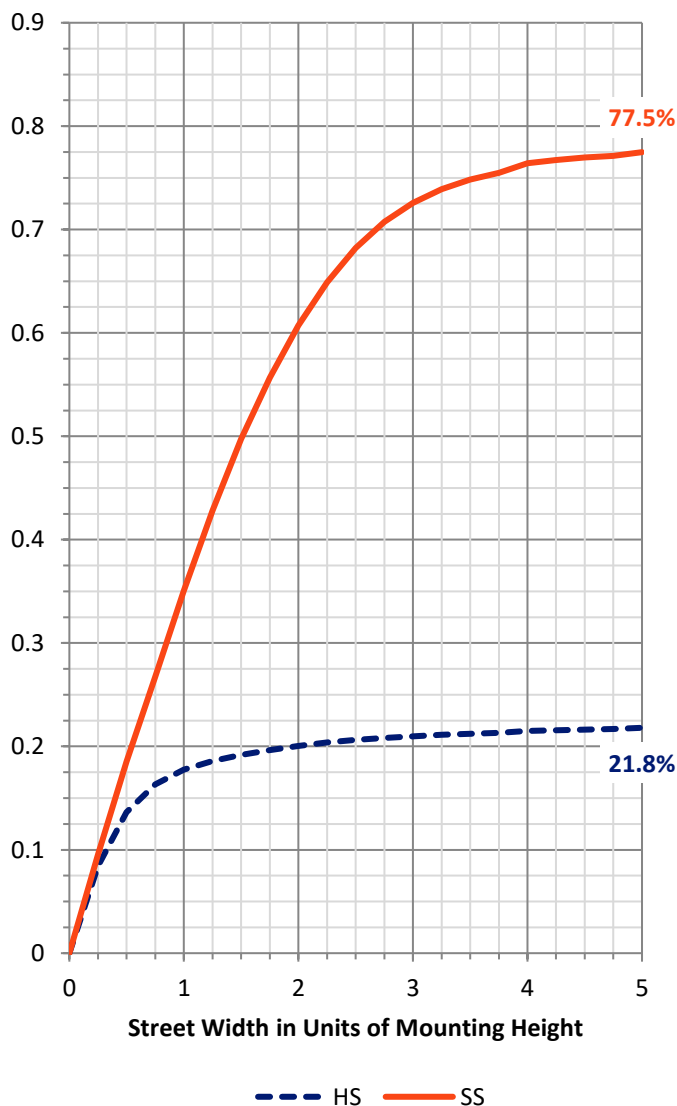
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5596.2	0.0	5596.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	19543.3	0.0	19543.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	25139.5	0.0	25139.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.9	1.1
10°-20°	881.4	3.5
20°-30°	1488.4	5.9
30°-40°	2059.8	8.2
40°-50°	2946.3	11.7
50°-60°	4752.0	18.9
60°-70°	7008.5	27.9
70°-80°	5089.4	20.2
80°-90°	648.8	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°	25139.5	100.0
0°-180°	25139.5	100.0

Coefficient of Utilization



REPORT NUMBER: P478727

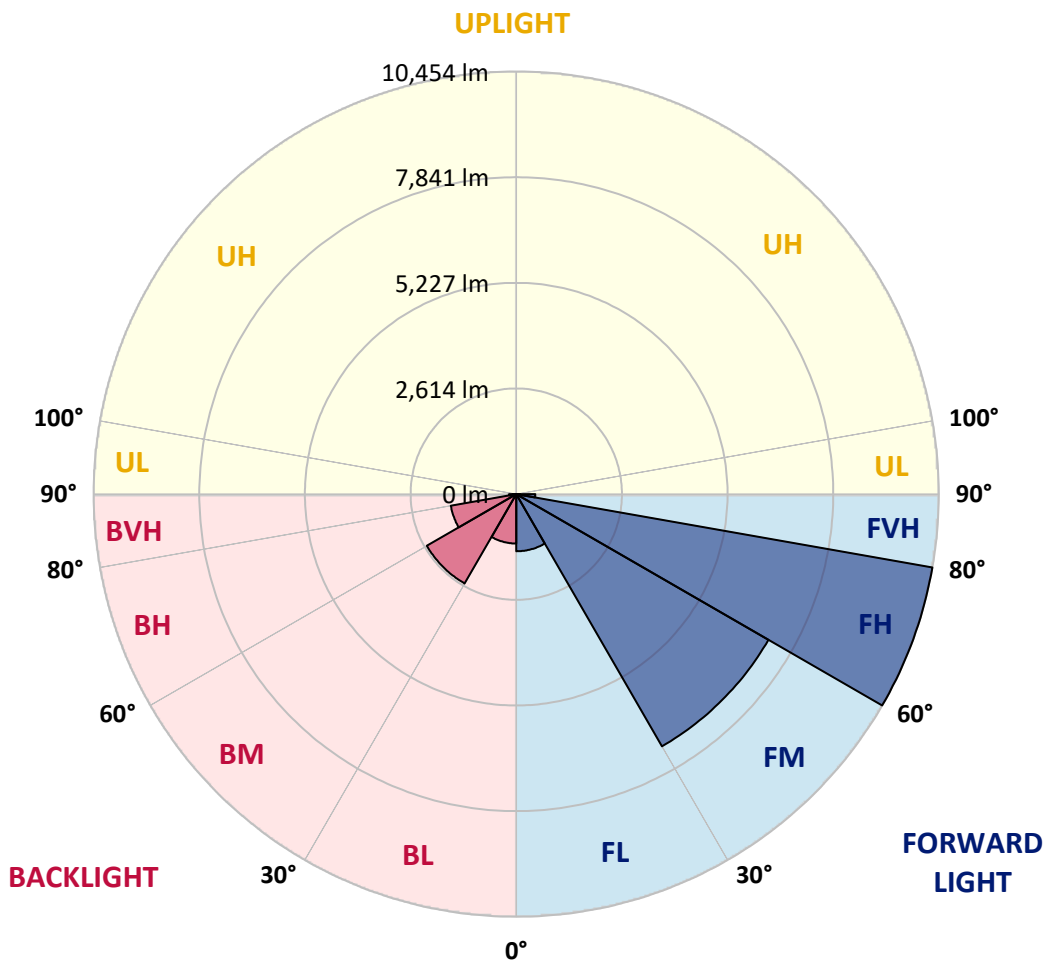
CATALOG NUMBER: IFLD-L-SA7A-830-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.9	5.6			
FM (30°-60°)	7204.1	28.7			
FH (60°-80°)	10454.1	41.6			G4/12000
FVH (80°-90°)	472.2	1.9			G3/500
BL (0°-30°)	1221.9	4.9	B3/2500		
BM (30°-60°)	2553.9	10.2	B3/5000		
BH (60°-80°)	1643.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	176.6	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





REPORT NUMBER: P478727
 CATALOG NUMBER: IFLD-L-SA7A-830-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9
2.5°	2727.2	2743.4	2727.2	2724.5	2697.3	2678.4	2694.6	2670.2	2643.1	2632.3	2607.9
5°	2976.6	2979.3	2949.5	2952.2	2895.2	2835.6	2846.4	2773.3	2694.6	2664.8	2616.0
7.5°	3231.4	3201.6	3158.2	3144.6	3055.2	2990.1	2982.0	2916.9	2794.9	2727.2	2659.4
10°	3396.8	3407.6	3337.1	3277.5	3201.6	3123.0	3120.3	2998.3	2927.8	2827.5	2740.7
12.5°	3543.2	3545.9	3486.2	3391.3	3296.5	3198.9	3212.4	3158.2	3038.9	2944.0	2857.3
15°	3657.0	3640.7	3575.7	3488.9	3388.6	3312.7	3304.6	3258.5	3158.2	3079.6	2935.9
17.5°	3689.5	3681.4	3616.3	3524.2	3426.6	3369.7	3391.3	3315.4	3274.8	3204.3	3066.0
20°	3627.2	3608.2	3597.4	3494.4	3423.9	3418.5	3399.5	3415.7	3348.0	3282.9	3182.6
22.5°	3513.3	3505.2	3499.8	3418.5	3385.9	3410.3	3442.8	3467.2	3456.4	3394.1	3280.2
25°	3396.8	3434.7	3399.5	3361.5	3407.6	3470.0	3461.8	3540.4	3540.4	3521.5	3426.6
27.5°	3478.1	3453.7	3426.6	3407.6	3423.9	3521.5	3516.0	3610.9	3646.2	3610.9	3502.5
30°	3681.4	3657.0	3578.4	3494.4	3472.7	3578.4	3605.5	3689.5	3705.8	3619.1	3526.9
32.5°	4063.6	4050.1	3925.4	3678.7	3545.9	3605.5	3619.1	3713.9	3700.4	3646.2	3608.2
35°	4630.2	4584.1	4410.6	3993.2	3700.4	3640.7	3605.5	3681.4	3732.9	3705.8	3670.6
37.5°	5251.0	5199.5	4985.4	4456.7	3979.6	3735.6	3708.5	3770.9	3830.5	3817.0	3743.8
40°	5844.7	5844.7	5652.2	5036.9	4394.4	3966.1	3971.5	3901.0	3955.2	3930.8	3944.4
42.5°	6430.3	6408.6	6330.0	5717.3	4839.0	4351.0	4264.3	4088.0	4185.6	4177.5	4196.5
45°	7024.0	7007.7	6986.0	6351.6	5476.0	4871.5	4825.4	4508.2	4597.7	4559.7	4641.1
47.5°	7498.4	7517.3	7517.3	7059.2	6156.5	5565.5	5497.7	4996.2	5167.0	5186.0	5204.9
50°	7902.3	7910.4	7902.3	7734.2	6915.5	6359.8	6221.5	5711.9	5882.7	6031.8	6205.3
52.5°	8460.7	8471.6	8433.6	8368.6	7945.7	7194.7	7040.2	6473.6	6823.3	6980.6	7292.3
55°	9149.3	9068.0	8997.5	9046.3	8935.1	8113.7	7953.8	7259.8	7785.7	7994.5	8618.0
57.5°	9276.7	9347.2	9526.1	9913.8	10073.7	9008.3	8916.2	8224.9	8872.8	9054.4	10095.4
60°	9726.7	9610.2	10049.3	10889.7	11068.6	10174.0	10079.1	9282.1	9954.4	10144.2	11459.0
62.5°	10022.2	10016.8	10667.4	11665.0	12071.7	11383.1	11190.6	10656.6	11122.8	11307.2	12944.6
65°	9935.5	10014.1	11168.9	12120.5	12909.3	12757.5	12646.4	11838.5	12453.9	12437.6	13912.4
67.5°	9143.9	9366.2	10851.8	12448.5	14156.3	14432.9	14397.6	13500.3	13535.5	13191.3	14343.4
70°	8046.0	7970.1	9509.9	12106.9	14779.9	16419.9	16411.8	14736.5	14508.8	13356.6	13107.2
72°	6180.9	6096.8	7362.8	10396.3	14451.8	17214.2	17458.2	15593.1	14497.9	12670.8	10827.4
72.5°	5611.6	5538.4	6798.9	9786.4	14088.6	17420.3	17306.4	15625.7	14384.1	12348.2	10114.4
75°	2583.5	2499.5	3396.8	5991.1	10990.0	15435.9	15823.5	14622.6	12562.3	9829.7	6058.9
77.5°	769.9	745.5	1092.5	2418.1	6386.9	11372.2	11521.3	11033.4	8769.8	5383.9	2247.3
80°	428.3	431.0	563.9	905.4	2808.5	6573.9	7110.7	6815.2	4302.2	1778.4	748.2
82.5°	238.6	252.1	352.4	536.8	1290.4	3017.2	3247.7	3131.1	1556.1	835.0	409.3
85°	124.7	130.1	184.3	287.4	731.9	954.2	981.3	1051.8	807.8	569.3	219.6
87.5°	48.8	48.8	67.8	119.3	271.1	295.5	265.7	322.6	463.6	368.7	108.4
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: P478727
 CATALOG NUMBER: IFLD-L-SA7A-830-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9	2588.9
2.5°	2629.6	2607.9	2605.2	2569.9	2580.8	2551.0	2553.7	2548.3	2551.0	2545.5	2532.0
5°	2616.0	2599.8	2553.7	2583.5	2556.4	2594.3	2624.2	2613.3	2621.4	2618.7	2621.4
7.5°	2635.0	2613.3	2607.9	2591.6	2616.0	2632.3	2656.7	2724.5	2719.0	2727.2	2743.4
10°	2691.9	2667.5	2651.3	2675.7	2662.1	2713.6	2740.7	2776.0	2838.3	2841.0	2808.5
12.5°	2803.1	2786.8	2754.3	2759.7	2805.8	2822.1	2838.3	2860.0	2900.7	2892.5	2922.4
15°	2930.5	2895.2	2876.3	2870.8	2881.7	2900.7	2898.0	2919.6	2941.3	2960.3	2952.2
17.5°	3022.7	2976.6	2982.0	3009.1	3006.4	3001.0	2965.7	2954.9	2965.7	2976.6	2971.2
20°	3117.5	3123.0	3082.3	3057.9	3047.1	2992.8	2965.7	2933.2	2900.7	2916.9	2941.3
22.5°	3236.8	3212.4	3152.8	3079.6	3025.4	2992.8	2908.8	2851.9	2851.9	2868.1	2860.0
25°	3372.4	3320.9	3217.8	3085.0	3017.2	2879.0	2819.3	2811.2	2789.5	2813.9	2824.8
27.5°	3478.1	3432.0	3291.0	3066.0	2879.0	2767.8	2732.6	2721.7	2757.0	2759.7	2803.1
30°	3521.5	3507.9	3301.9	3017.2	2738.0	2559.1	2537.4	2586.2	2624.2	2681.1	2683.8
32.5°	3578.4	3583.8	3318.1	2903.4	2553.7	2374.8	2342.2	2401.9	2510.3	2556.4	2591.6
35°	3673.3	3700.4	3304.6	2762.4	2358.5	2187.7	2182.3	2198.5	2304.3	2385.6	2431.7
37.5°	3838.6	3833.2	3301.9	2594.3	2204.0	2025.0	1981.7	1987.1	2057.6	2125.3	2117.2
40°	4060.9	4039.2	3293.7	2374.8	2003.4	1886.8	1813.6	1786.5	1781.1	1762.1	1767.5
42.5°	4364.6	4321.2	3291.0	2152.5	1821.7	1697.0	1645.5	1575.0	1523.5	1425.9	1431.4
45°	4787.5	4711.6	3220.6	1943.7	1642.8	1539.8	1461.2	1409.7	1298.5	1176.5	1176.5
47.5°	5440.8	5194.1	3223.3	1713.3	1469.3	1385.3	1331.1	1241.6	1122.3	1024.7	1013.9
50°	6403.2	5839.3	3131.1	1531.7	1328.3	1271.4	1214.5	1111.5	997.6	929.8	938.0
52.5°	7644.8	6801.7	3128.4	1369.0	1217.2	1176.5	1114.2	1022.0	938.0	894.6	878.3
55°	9124.9	8075.8	3226.0	1236.2	1103.3	1081.7	1054.5	978.6	897.3	859.4	856.6
57.5°	10640.3	9320.1	3383.2	1141.3	1005.7	1022.0	1003.0	943.4	878.3	835.0	829.5
60°	11987.6	10306.9	3066.0	1027.4	919.0	954.2	981.3	929.8	894.6	891.9	872.9
62.5°	13004.2	10729.8	2331.4	940.7	872.9	938.0	1011.2	1043.7	1027.4	1049.1	1051.8
65°	13375.6	10474.9	1604.9	894.6	837.7	975.9	1138.6	1127.7	1032.9	992.2	1013.9
67.5°	12855.1	9442.1	1190.1	840.4	813.3	1054.5	1211.8	1076.2	932.6	927.1	910.9
70°	11055.1	8002.6	970.5	783.5	772.6	1011.2	1179.2	997.6	878.3	843.1	826.8
72°	8807.7	6232.4	851.2	742.8	707.5	902.7	1103.3	935.3	832.2	788.9	769.9
72.5°	8040.5	5776.9	835.0	723.8	694.0	878.3	1065.4	916.3	821.4	783.5	753.6
75°	4410.6	2957.6	734.7	664.2	585.6	759.1	986.8	859.4	775.3	721.1	715.7
77.5°	1640.1	1146.7	634.4	588.3	506.9	656.0	897.3	816.0	704.8	637.1	623.5
80°	628.9	604.5	517.8	496.1	425.6	574.7	826.8	731.9	599.1	531.3	509.7
82.5°	382.2	352.4	393.1	387.7	325.3	523.2	778.0	685.9	531.3	431.0	417.5
85°	208.7	208.7	273.8	263.0	227.7	417.5	588.3	455.4	336.2	276.5	281.9
87.5°	92.2	108.4	146.4	138.3	124.7	235.8	287.4	241.3	168.1	113.9	122.0
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)