

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: McGRAW-EDISON

Report Number: P522830

Luminaire Tested: **GALN-SA7A-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522830
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26658 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

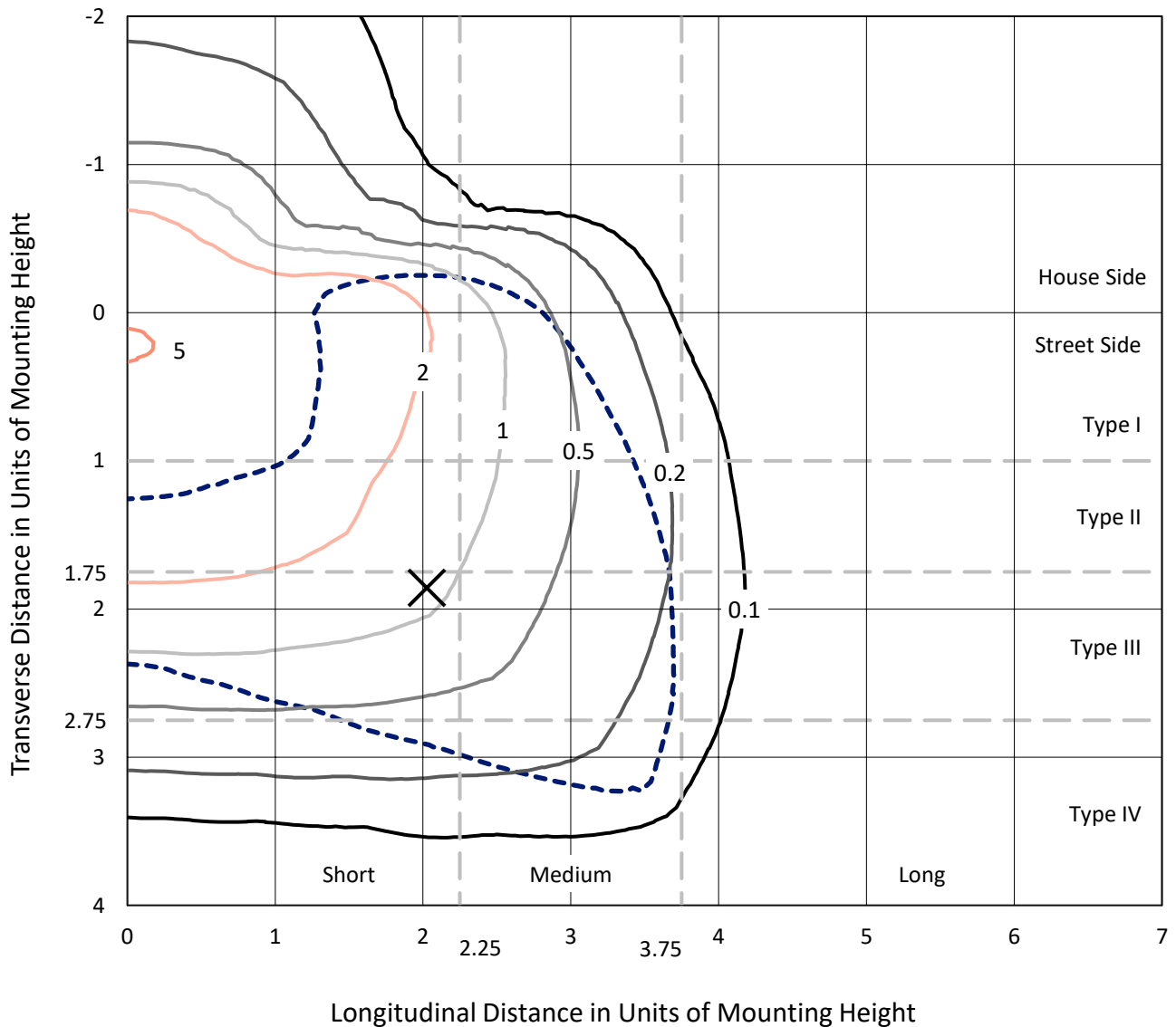
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

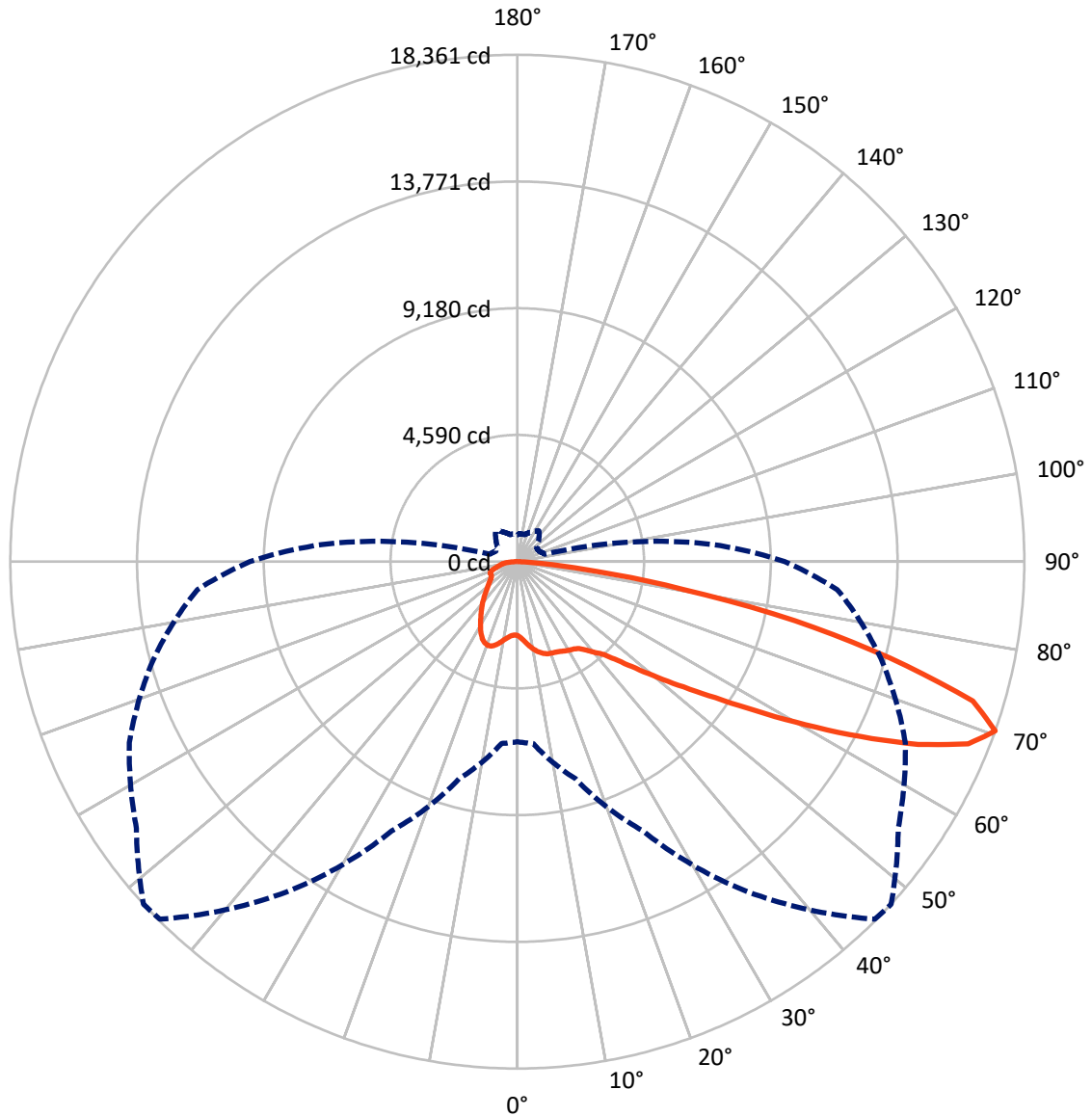
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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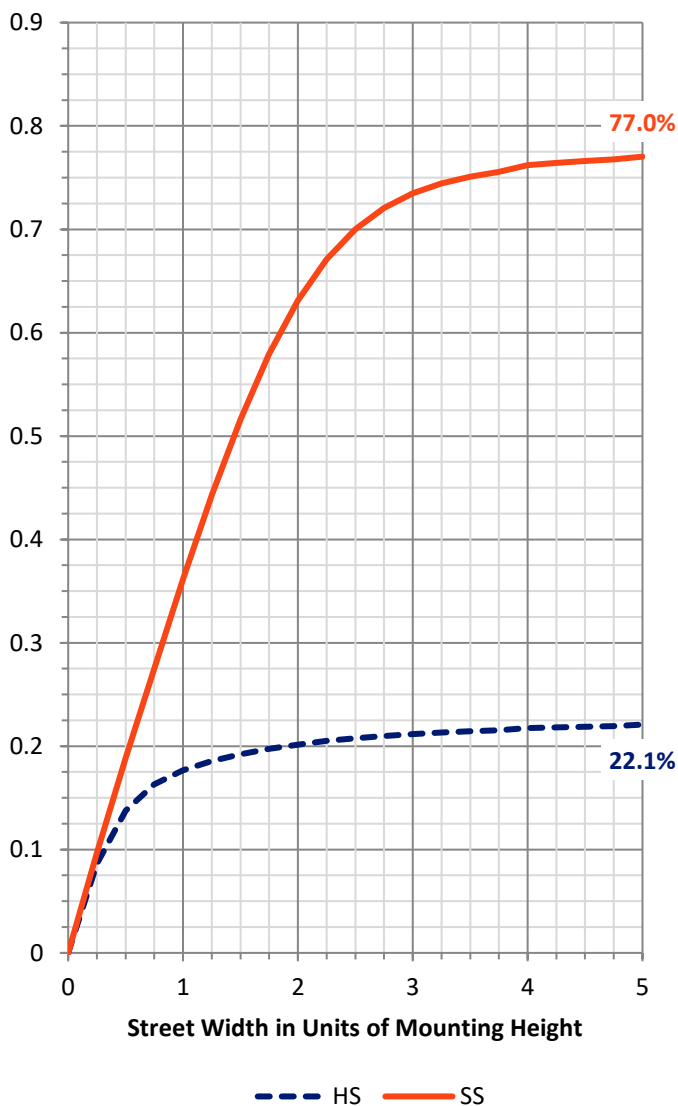
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6035.9	0.0	6035.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20622.1	0.0	20622.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	26658.0	0.0	26658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	1.0
10°-20°	922.2	3.5
20°-30°	1533.6	5.8
30°-40°	2173.7	8.2
40°-50°	3208.8	12.0
50°-60°	5557.8	20.8
60°-70°	7850.5	29.4
70°-80°	4512.9	16.9
80°-90°	622.7	2.3
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°	26658.0	100.0
0°-180°	26658.0	100.0

Coefficient of Utilization



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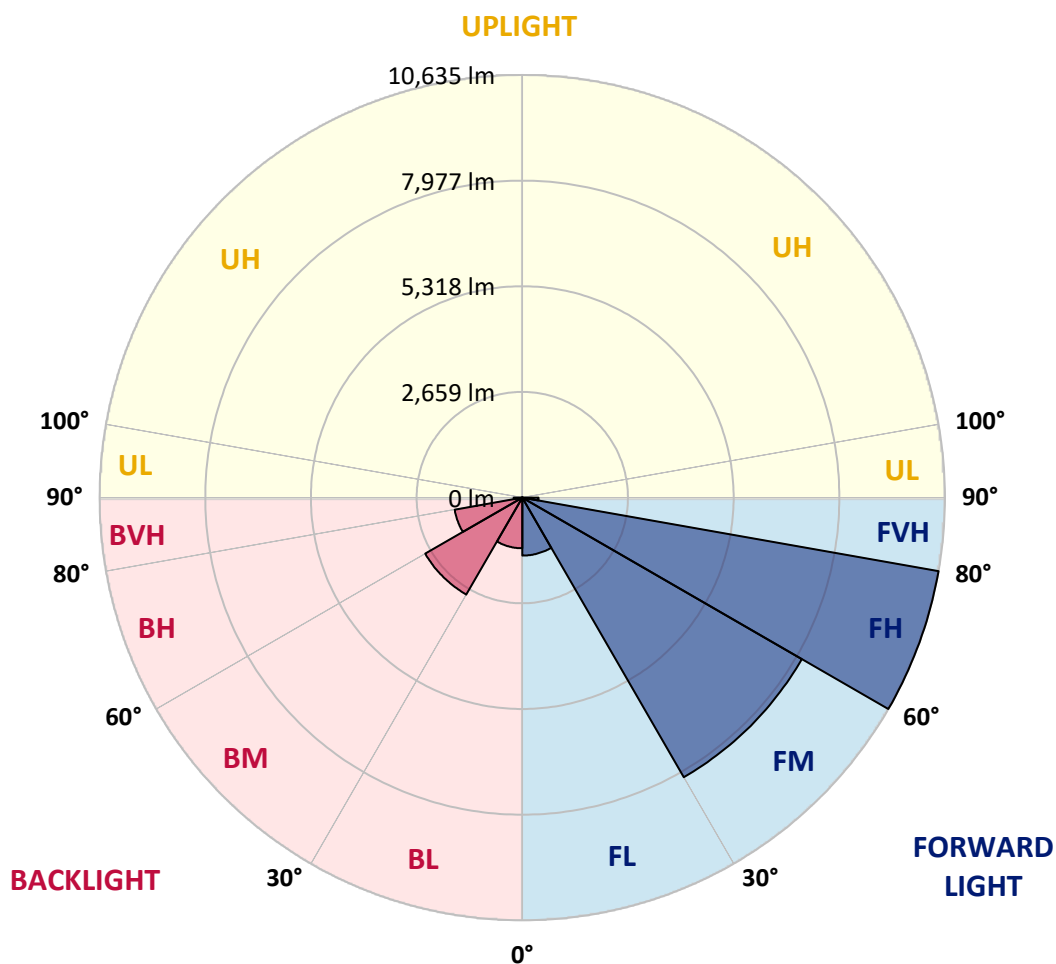
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1457.8	5.5			
FM	(30°-60°)	8122.2	30.5			
FH	(60°-80°)	10635.4	39.9			G4/12000
FVH	(80°-90°)	406.7	1.5			G3/500
BL	(0°-30°)	1273.9	4.8	B3/2500		
BM	(30°-60°)	2818.1	10.6	B3/5000		
BH	(60°-80°)	1728.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	215.9	0.8			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°	45°	47.5°	55°	65°	75°	85°
0°	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1
2.5°	2848.8	2838.8	2837.3	2815.9	2804.5	2783.1	2774.6	2754.6	2730.4	2706.1	2683.3
5°	3072.7	3072.7	3062.7	3032.8	2985.7	2937.2	2915.8	2877.3	2808.8	2753.2	2706.1
7.5°	3302.4	3305.2	3285.3	3241.0	3174.0	3095.5	3075.6	3018.5	2921.5	2840.2	2770.3
10°	3500.7	3500.7	3473.6	3413.7	3329.5	3243.9	3223.9	3159.7	3051.3	2950.0	2858.7
12.5°	3651.9	3651.9	3616.2	3537.8	3446.5	3369.4	3346.6	3285.3	3184.0	3071.3	2955.7
15°	3750.3	3743.2	3703.2	3614.8	3526.3	3459.3	3443.6	3392.3	3299.5	3185.4	3055.6
17.5°	3754.6	3751.7	3713.2	3639.0	3562.0	3516.4	3506.4	3472.1	3399.4	3291.0	3154.0
20°	3671.9	3677.6	3651.9	3599.1	3562.0	3542.0	3537.8	3526.3	3475.0	3373.7	3236.8
22.5°	3583.4	3593.4	3569.1	3540.6	3537.8	3557.7	3560.6	3563.4	3530.6	3432.2	3306.7
25°	3562.0	3569.1	3544.9	3519.2	3534.9	3587.7	3599.1	3610.5	3584.8	3502.1	3389.4
27.5°	3670.4	3664.7	3617.6	3562.0	3572.0	3643.3	3659.0	3671.9	3659.0	3587.7	3492.1
30°	3977.1	3958.6	3864.4	3701.8	3650.5	3700.4	3716.1	3751.7	3751.7	3699.0	3603.4
32.5°	4490.7	4455.0	4282.4	3962.9	3784.5	3754.6	3770.3	3828.8	3858.7	3817.4	3713.2
35°	5114.1	5077.0	4830.2	4400.8	4029.9	3863.0	3858.7	3924.3	4004.2	3911.5	3776.0
37.5°	5740.3	5701.8	5405.1	4922.9	4388.0	4091.2	4065.6	4088.4	4122.6	3952.9	3863.0
40°	6366.5	6320.9	6061.3	5506.3	4825.9	4393.7	4326.6	4223.9	4209.6	4088.4	4031.3
42.5°	6987.1	6945.7	6814.5	6161.1	5350.9	4689.0	4586.2	4409.4	4463.6	4390.8	4340.9
45°	7613.3	7616.2	7476.4	6895.8	5984.2	5233.9	5095.5	4818.8	4947.2	4920.1	4948.6
47.5°	8168.2	8161.1	8111.2	7609.0	6770.2	5935.7	5757.4	5436.4	5656.1	5756.0	5974.2
50°	8706.0	8701.7	8704.6	8417.9	7683.2	6770.2	6573.4	6236.7	6731.7	7078.4	7469.2
52.5°	9476.3	9500.6	9328.0	9252.4	8793.0	7756.0	7539.1	7191.1	8002.8	8549.1	9312.3
55°	10249.5	10229.5	10094.0	10172.5	9954.2	8922.9	8696.0	8419.3	9417.9	10015.6	11162.5
57.5°	10704.6	10711.7	10850.1	11233.8	11387.9	10377.9	10172.5	9958.5	11008.4	11432.1	12808.7
60°	11114.0	11146.8	11544.8	12269.5	12687.4	12165.3	11982.7	11774.5	12467.7	12636.1	14238.0
62.5°	11242.4	11343.6	12038.4	13122.5	13954.2	14182.4	13955.6	13496.3	13857.2	13791.5	15206.7
65°	10601.9	10740.2	11985.6	13442.1	15085.4	16096.8	15952.7	15099.7	15041.2	14646.0	15365.0
67.5°	8915.7	9054.1	10653.2	12771.6	15553.3	17754.4	17610.3	16269.4	15760.1	14725.9	14166.7
70°	6523.5	6610.5	8139.7	10753.1	14613.2	18310.7	18360.7	16840.0	15503.4	13640.3	11631.8
72.5°	3758.9	3951.4	5022.8	7564.8	11938.5	16904.2	17250.8	15653.2	13880.0	11379.3	8132.6
75°	1616.2	1620.5	2322.4	4172.6	8085.5	13587.6	13922.8	12975.6	10900.0	7868.7	4342.3
77.5°	768.9	783.2	1021.4	1863.0	4450.7	9387.9	10292.3	9166.8	6971.4	3780.3	1640.5
80°	499.3	509.3	624.8	924.4	2182.6	5443.6	6074.1	5288.1	3075.6	1350.9	707.6
82.5°	302.4	305.3	418.0	564.9	1201.1	2465.0	2905.8	2295.3	1312.4	808.8	416.5
85°	184.0	185.4	253.9	349.5	728.9	851.6	874.5	867.3	770.3	529.2	222.5
87.5°	88.4	91.3	131.2	165.5	286.7	263.9	249.6	289.6	363.8	285.3	95.6
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°	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1	2676.1
2.5°	2673.3	2669.0	2659.0	2654.7	2651.9	2653.3	2651.9	2651.9	2653.3	2653.3	2653.3
5°	2686.1	2679.0	2663.3	2663.3	2671.9	2691.8	2710.4	2724.6	2740.3	2738.9	2738.9
7.5°	2741.8	2728.9	2710.4	2716.1	2737.5	2768.9	2801.7	2833.1	2864.4	2867.3	2865.9
10°	2823.1	2810.2	2790.3	2797.4	2831.6	2878.7	2920.1	2965.7	3000.0	3009.9	3007.1
12.5°	2915.8	2890.1	2873.0	2893.0	2947.2	3009.9	3049.9	3084.1	3108.4	3122.6	3116.9
15°	3009.9	2985.7	2965.7	3007.1	3072.7	3131.2	3151.2	3156.9	3161.2	3175.4	3172.6
17.5°	3101.2	3068.4	3061.3	3115.5	3178.3	3204.0	3192.5	3168.3	3149.7	3161.2	3159.7
20°	3182.6	3156.9	3154.0	3208.2	3232.5	3208.2	3159.7	3116.9	3084.1	3087.0	3085.6
22.5°	3259.6	3239.6	3242.5	3265.3	3226.8	3144.0	3064.2	3005.7	2970.0	2977.1	2981.4
25°	3345.2	3325.2	3332.3	3295.3	3168.3	3024.2	2908.7	2858.7	2844.5	2858.7	2868.7
27.5°	3456.4	3443.6	3439.3	3296.7	3064.2	2847.3	2716.1	2697.5	2710.4	2741.8	2757.5
30°	3576.3	3576.3	3553.4	3272.4	2921.5	2634.8	2520.7	2523.5	2567.7	2611.9	2627.6
32.5°	3691.8	3716.1	3644.7	3206.8	2737.5	2427.9	2340.9	2343.8	2382.3	2436.5	2450.8
35°	3787.4	3857.3	3723.2	3087.0	2520.7	2253.9	2188.3	2149.8	2151.2	2192.6	2204.0
37.5°	3918.6	4048.5	3768.9	2908.7	2289.6	2105.5	2031.4	1964.3	1920.1	1903.0	1903.0
40°	4146.9	4338.0	3780.3	2644.8	2071.3	1964.3	1858.7	1778.9	1693.3	1616.2	1602.0
42.5°	4533.5	4774.5	3757.4	2340.9	1874.4	1808.8	1706.1	1607.7	1489.3	1380.9	1372.3
45°	5218.2	5342.3	3696.1	2025.7	1699.0	1659.0	1559.2	1452.2	1326.7	1229.7	1222.5
47.5°	6315.2	6139.7	3614.8	1746.1	1539.2	1527.8	1450.8	1326.7	1201.1	1134.1	1126.9
50°	7917.2	7395.1	3603.4	1543.5	1410.8	1416.5	1353.8	1239.6	1129.8	1074.2	1065.6
52.5°	9845.8	8911.4	3679.0	1400.8	1298.1	1319.5	1288.1	1182.6	1085.6	1038.5	1029.9
55°	11717.4	10275.2	3724.6	1289.6	1192.6	1232.5	1236.8	1148.3	1059.9	1012.8	1007.1
57.5°	13236.6	11302.3	3522.1	1188.3	1101.3	1162.6	1194.0	1128.4	1047.1	1011.4	1005.7
60°	14293.7	11787.3	2945.8	1098.4	1034.2	1107.0	1178.3	1129.8	1078.4	1082.7	1085.6
62.5°	14630.3	11571.9	2209.7	1031.4	988.6	1088.4	1204.0	1188.3	1135.5	1168.3	1174.0
65°	14072.6	10681.7	1602.0	978.6	948.6	1101.3	1281.0	1231.1	1115.5	1139.8	1139.8
67.5°	12205.3	9202.4	1246.8	930.1	903.0	1125.5	1358.0	1226.8	1068.5	1097.0	1071.3
70°	9681.8	7118.3	1038.5	875.9	854.5	1089.9	1365.2	1182.6	1012.8	1018.5	970.0
72.5°	6425.0	4680.4	893.0	824.5	780.3	980.0	1306.7	1125.5	958.6	925.8	877.3
75°	3148.3	2333.8	778.9	760.3	683.3	853.1	1226.8	1071.3	900.1	848.8	821.7
77.5°	1219.7	992.9	664.8	679.0	594.9	751.8	1121.2	994.3	823.1	753.2	731.8
80°	592.0	563.5	544.9	566.3	489.3	640.5	1024.2	927.2	751.8	674.7	643.4
82.5°	368.0	348.1	418.0	440.8	376.6	584.9	971.5	870.2	661.9	559.2	533.5
85°	186.9	199.7	279.6	301.0	269.6	465.0	800.3	653.3	477.9	396.6	399.4
87.5°	71.3	95.6	146.9	158.3	144.1	245.4	440.8	380.9	306.7	208.3	192.6
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)