

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: P648018

Luminaire Tested: **GALN-SA6A-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21056.4 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

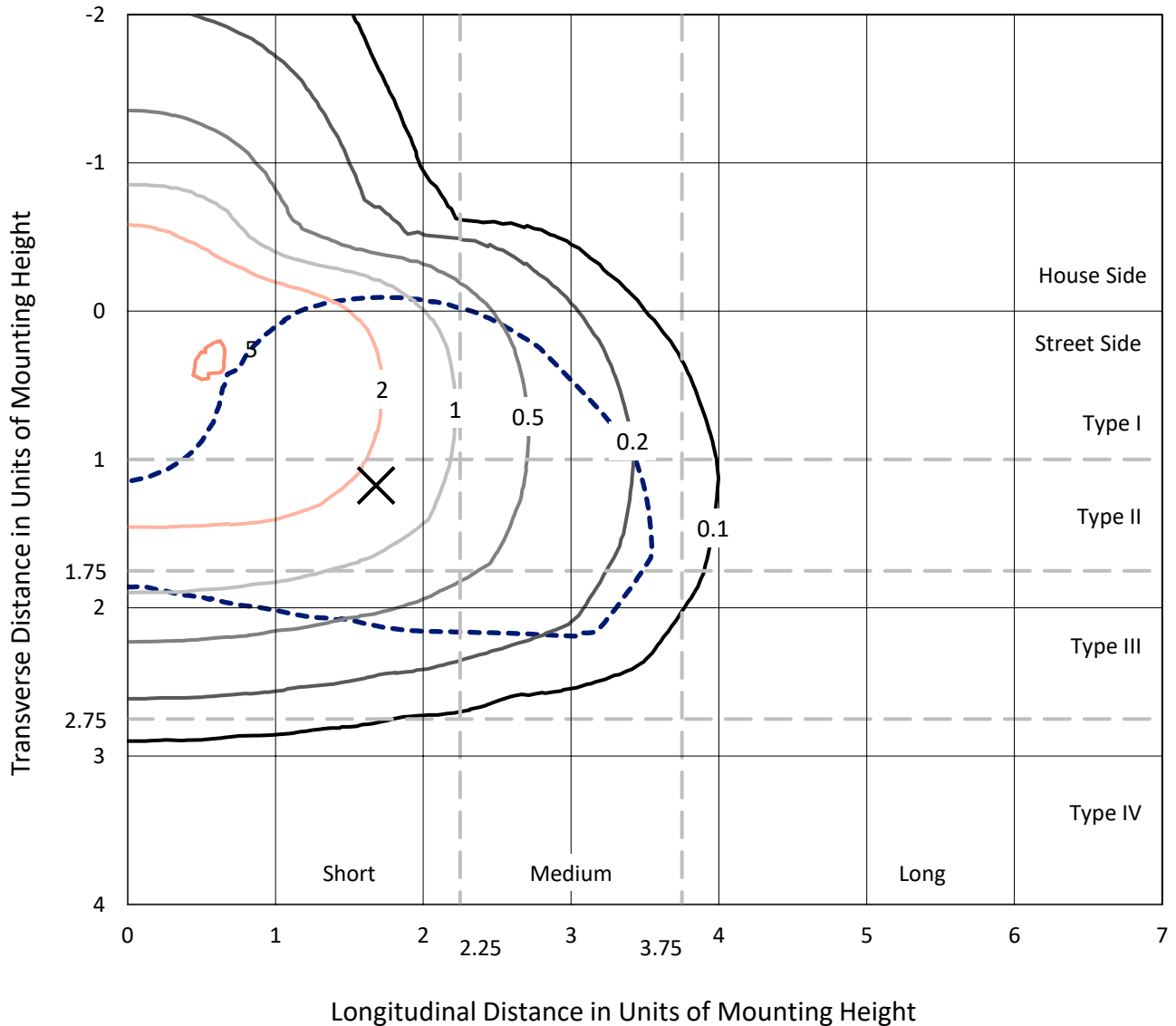
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

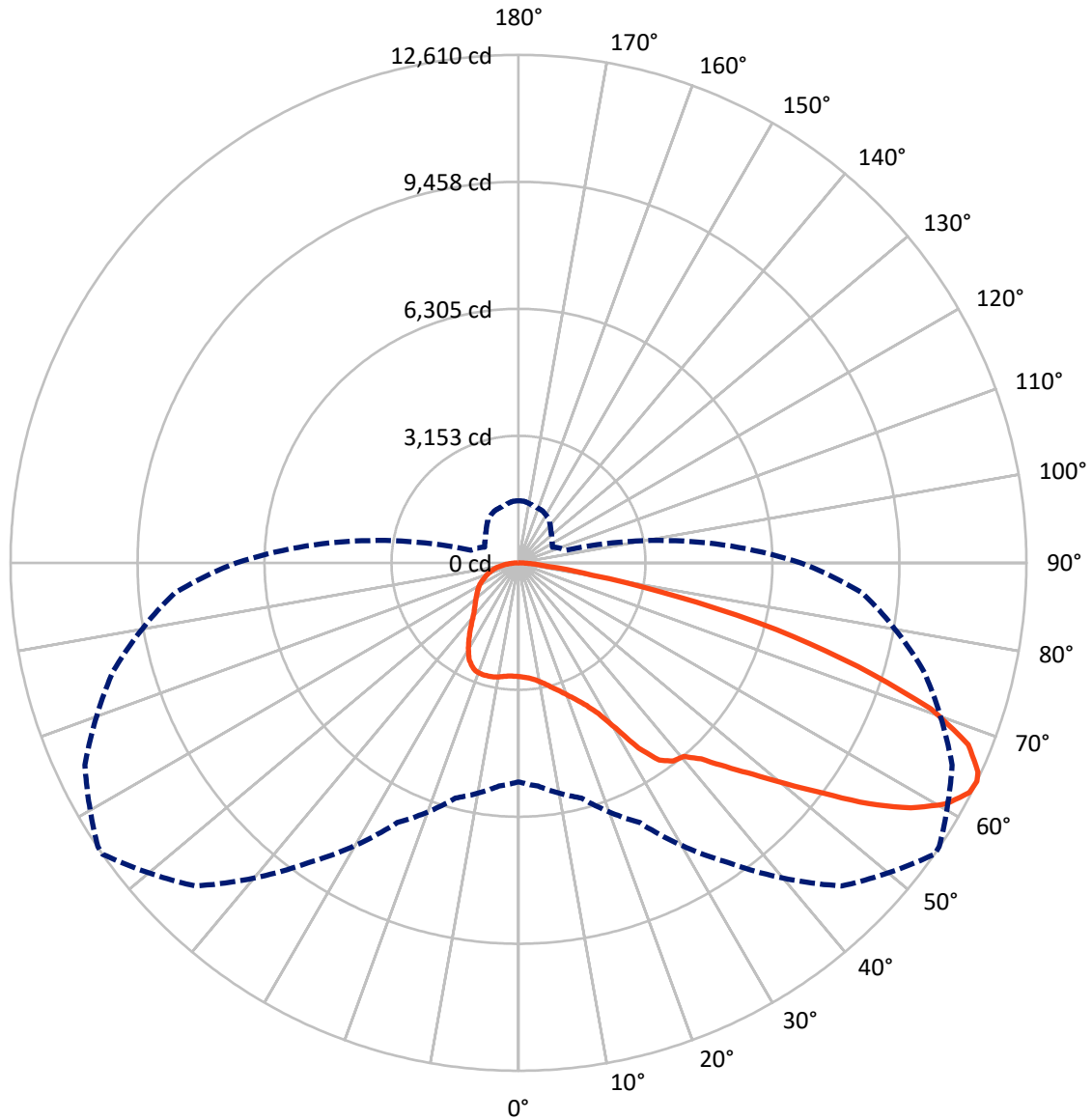
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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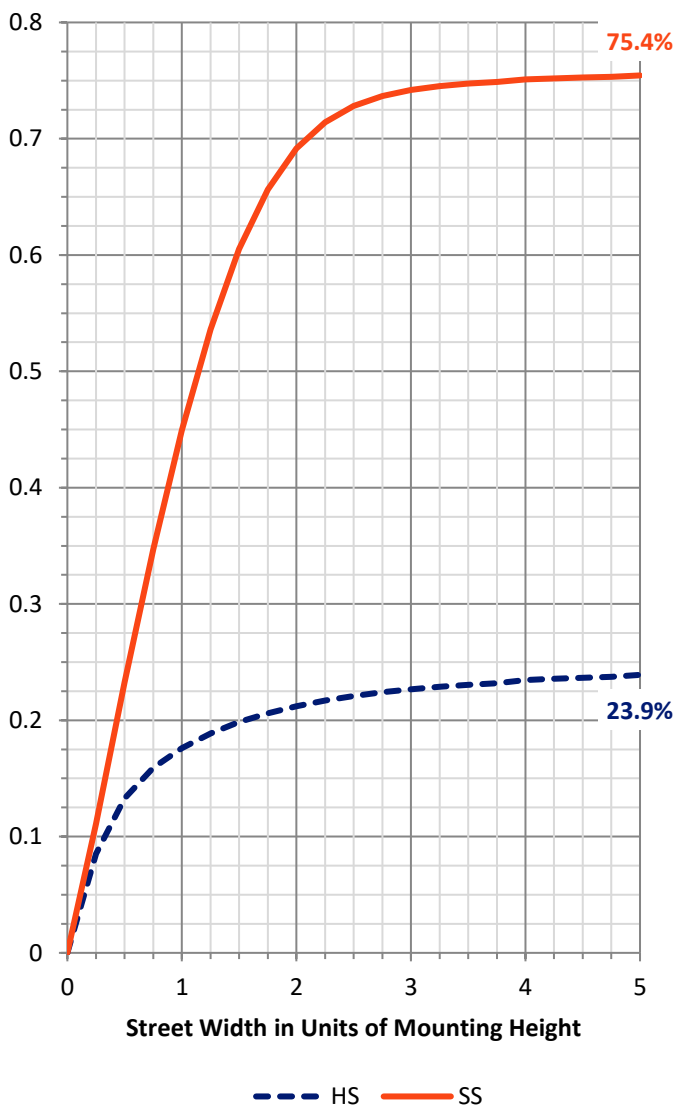
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5115.0	0.0	5115.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	15941.4	0.0	15941.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	21056.4	0.0	21056.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.3
10°-20°	867.1	4.1
20°-30°	1543.7	7.3
30°-40°	2375.1	11.3
40°-50°	3366.9	16.0
50°-60°	4873.6	23.1
60°-70°	5043.6	24.0
70°-80°	2361.9	11.2
80°-90°	349.7	1.7
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°	21056.4	100.0
0°-180°	21056.4	100.0

Coefficient of Utilization



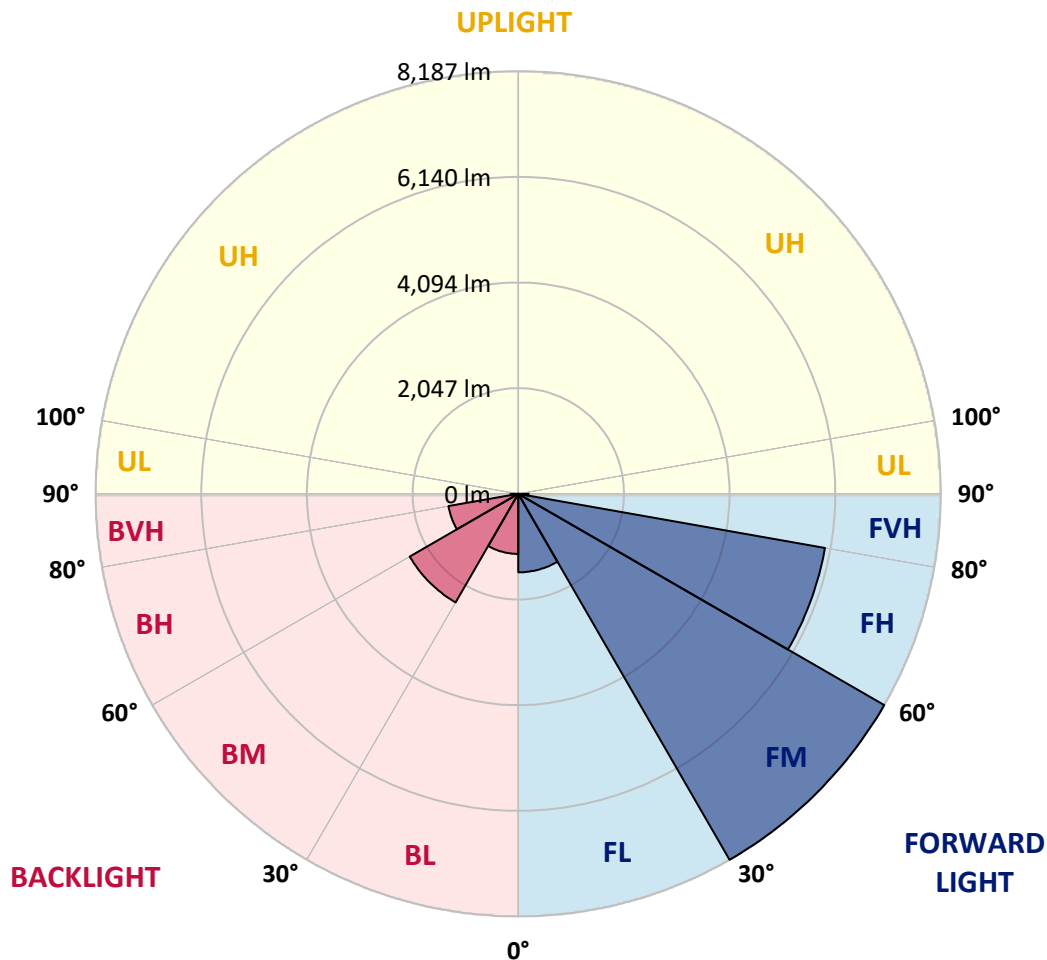
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1520.6	7.2			
FM (30°-60°)	8187.3	38.9			
FH (60°-80°)	6033.3	28.7			G3/7500
FVH (80°-90°)	200.2	1.0			G2/225
BL (0°-30°)	1165.0	5.5	B3/2500		
BM (30°-60°)	2428.3	11.5	B2/2500		
BH (60°-80°)	1372.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	149.5	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1
2.5°	2856.9	2855.7	2859.2	2855.7	2858.0	2849.8	2846.3	2848.6	2845.1	2839.2	2828.7
5°	2892.0	2890.8	2892.0	2887.3	2889.7	2885.0	2876.8	2879.1	2873.3	2860.4	2845.1
7.5°	2951.9	2947.2	2947.2	2946.0	2941.3	2934.3	2928.4	2926.1	2920.2	2903.8	2880.3
10°	3029.3	3029.3	3030.5	3021.1	3027.0	3014.1	3008.2	3007.0	2987.1	2966.0	2933.1
12.5°	3131.5	3137.3	3133.8	3129.1	3126.8	3122.1	3102.2	3106.9	3084.6	3048.1	3008.2
15°	3258.2	3267.6	3261.7	3259.4	3253.5	3235.9	3227.8	3224.2	3194.9	3142.0	3089.2
17.5°	3426.1	3414.3	3409.7	3403.8	3379.1	3366.2	3352.1	3349.8	3324.0	3261.7	3179.6
20°	3572.8	3589.2	3579.9	3574.0	3549.3	3524.7	3514.1	3510.6	3488.3	3420.2	3288.8
22.5°	3747.7	3751.2	3754.7	3740.6	3728.9	3710.1	3691.4	3685.5	3677.3	3606.8	3446.1
25°	3934.3	3948.4	3936.6	3922.6	3908.5	3907.3	3924.9	3922.6	3919.1	3851.0	3655.0
27.5°	4238.3	4251.2	4254.7	4239.5	4185.4	4190.1	4230.1	4243.0	4296.9	4184.3	3923.8
30°	4409.6	4422.5	4451.9	4509.5	4595.1	4670.2	4766.4	4795.8	4847.5	4635.0	4243.0
32.5°	4515.3	4520.0	4572.8	4679.6	4936.7	5217.2	5478.9	5489.5	5522.3	5224.3	4535.2
35°	4681.9	4685.5	4727.8	4845.1	5146.7	5613.9	6018.8	6031.8	6004.7	5407.3	4671.4
37.5°	4887.3	4896.7	4923.7	5021.1	5381.5	5946.0	6243.0	6233.6	5994.2	5552.9	4912.0
40°	5186.7	5186.7	5155.0	5286.4	5629.1	6136.2	6321.6	6305.2	6241.8	5974.2	5278.2
42.5°	5450.8	5446.1	5521.2	5610.4	5939.0	6429.6	6651.4	6678.4	6782.9	6503.6	5694.9
45°	5794.7	5815.7	5858.0	6020.0	6466.0	6930.8	7217.2	7243.0	7390.9	7126.8	6181.9
47.5°	6142.1	6149.1	6281.8	6497.7	7118.6	7610.4	7845.1	7887.4	8022.4	7855.7	6706.6
50°	6388.6	6455.4	6667.9	7008.2	7791.2	8439.0	8622.2	8672.6	8910.9	8649.1	7318.2
52.5°	6649.1	6714.9	6974.3	7493.0	8563.4	9286.5	9511.8	9545.9	9793.5	9452.0	7943.7
55°	6872.1	6933.2	7227.7	7922.6	9178.5	10151.5	10559.9	10520.0	10638.5	10070.5	8426.1
57.5°	6908.5	6957.8	7328.7	8197.2	9640.9	10893.3	11478.9	11502.4	11365.1	10532.9	8824.0
60°	6626.8	6727.8	7153.8	8167.9	9848.7	11409.7	12164.4	12180.8	11791.2	10770.0	8982.5
62.5°	6128.0	6117.4	6632.7	7696.0	9557.6	11527.1	12568.2	12550.6	11957.8	10656.2	8828.7
64°	5439.0	5565.8	6047.0	7116.2	9088.1	11346.3	12610.4	12601.1	11878.0	10419.1	8567.0
65°	5018.8	5011.7	5487.1	6642.0	8621.0	11074.0	12535.3	12522.4	11711.3	10206.6	8363.9
67.5°	3623.3	3639.7	4109.2	5125.6	7008.2	10009.5	12045.8	11997.8	11054.1	9502.4	7591.6
70°	2194.8	2204.2	2572.8	3400.3	5030.5	8091.6	10858.1	10860.4	10048.2	8450.8	6461.3
72.5°	1156.1	1180.8	1328.7	1930.8	3055.2	5677.3	8808.8	9017.7	8626.9	7212.5	5104.5
75°	643.2	646.7	751.2	951.9	1558.7	3177.3	6621.0	6680.8	6829.9	5805.2	3774.7
77.5°	490.6	497.7	530.5	615.0	848.6	1473.0	4007.1	4307.5	4813.4	4092.7	2153.8
80°	397.9	405.0	433.1	483.6	564.5	698.4	1861.5	2023.5	2576.3	1817.0	840.4
82.5°	309.8	305.1	341.5	374.4	410.8	413.1	764.1	845.1	1049.3	781.7	363.9
85°	230.0	230.0	259.4	252.4	265.3	241.8	336.8	372.1	420.2	332.1	169.0
87.5°	91.5	100.9	170.2	152.6	118.5	95.1	124.4	131.5	145.6	130.3	70.4
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°	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1	2825.1
2.5°	2829.8	2833.4	2825.1	2819.3	2816.9	2813.4	2809.9	2811.0	2815.7	2820.4	2819.3
5°	2843.9	2845.1	2831.0	2824.0	2819.3	2814.6	2814.6	2818.1	2827.5	2834.5	2834.5
7.5°	2879.1	2879.1	2859.2	2846.3	2839.2	2831.0	2828.7	2829.8	2836.9	2846.3	2847.5
10°	2934.3	2929.6	2903.8	2883.8	2870.9	2851.0	2833.4	2824.0	2827.5	2833.4	2833.4
12.5°	3001.2	2988.3	2955.4	2928.4	2896.7	2859.2	2822.8	2804.0	2802.8	2808.7	2806.4
15°	3072.8	3058.7	3012.9	2963.7	2908.5	2853.3	2809.9	2782.9	2761.7	2755.9	2768.8
17.5°	3156.1	3126.8	3063.4	2995.3	2913.2	2841.6	2773.5	2718.3	2680.8	2670.2	2673.7
20°	3257.0	3218.4	3132.6	3025.8	2909.6	2799.3	2693.7	2619.8	2558.7	2539.9	2542.2
22.5°	3396.7	3329.9	3204.3	3041.1	2880.3	2719.5	2572.8	2476.6	2402.6	2373.3	2390.9
25°	3555.2	3482.4	3272.3	3037.6	2804.0	2591.6	2429.6	2304.0	2237.1	2193.7	2203.0
27.5°	3773.5	3644.4	3345.1	3005.9	2694.9	2435.4	2247.7	2129.1	2068.1	2045.8	2056.3
30°	4052.8	3854.5	3423.7	2920.2	2522.4	2238.3	2064.5	1987.1	1950.7	1922.6	1932.0
32.5°	4254.7	4002.4	3441.4	2775.8	2335.7	2058.7	1940.1	1882.6	1842.7	1815.8	1821.6
35°	4399.1	4128.0	3433.1	2598.6	2140.9	1910.8	1841.5	1794.6	1730.0	1671.4	1660.8
37.5°	4592.8	4285.3	3373.2	2405.0	1948.3	1811.1	1761.8	1674.9	1582.2	1503.5	1500.0
40°	4889.7	4469.5	3245.3	2177.2	1784.1	1737.1	1677.3	1564.6	1464.8	1401.4	1396.7
42.5°	5196.1	4639.7	3071.6	1937.8	1649.1	1659.6	1586.8	1475.3	1414.3	1373.2	1368.5
45°	5570.5	4824.0	2883.8	1730.0	1549.3	1586.8	1508.2	1443.7	1407.3	1380.3	1373.2
47.5°	5975.4	5012.9	2672.5	1543.4	1464.8	1520.0	1475.3	1446.0	1426.1	1407.3	1399.1
50°	6412.0	5224.3	2474.2	1393.2	1388.5	1450.7	1471.8	1461.3	1449.6	1443.7	1436.6
52.5°	6890.9	5440.2	2307.5	1287.6	1321.6	1401.4	1473.0	1481.2	1481.2	1477.7	1473.0
55°	7214.9	5590.4	2138.5	1201.9	1253.5	1361.5	1470.6	1502.3	1514.1	1509.4	1504.7
57.5°	7454.3	5672.6	1926.1	1127.9	1196.0	1322.8	1457.8	1504.7	1516.4	1522.3	1520.0
60°	7503.6	5596.3	1647.9	1050.5	1133.8	1266.4	1410.8	1469.5	1484.7	1521.1	1524.7
62.5°	7281.7	5361.5	1370.9	974.2	1057.5	1180.8	1347.5	1429.6	1460.1	1516.4	1522.3
64°	7009.4	5098.7	1217.2	926.1	1008.2	1132.6	1315.8	1419.0	1459.0	1534.1	1538.8
65°	6809.9	4907.3	1120.9	895.5	976.6	1101.0	1298.1	1422.6	1469.5	1561.1	1568.1
67.5°	6075.1	4248.9	927.2	824.0	901.4	1046.9	1301.7	1451.9	1467.2	1571.6	1570.5
70°	5027.0	3382.6	777.0	758.3	828.6	1003.5	1287.6	1404.9	1406.1	1475.3	1459.0
72.5°	3764.1	2500.0	673.7	690.1	747.7	900.2	1216.0	1341.6	1321.6	1331.0	1314.6
75°	2585.7	1653.8	579.8	617.4	663.1	795.8	1115.1	1218.3	1186.6	1174.9	1163.1
77.5°	1380.3	914.3	482.4	545.8	576.3	687.8	973.0	1072.8	1039.9	994.2	978.9
80°	558.7	430.7	388.5	451.9	469.5	554.0	809.9	872.1	847.4	767.6	741.8
82.5°	280.5	258.2	305.1	355.6	356.8	395.6	602.1	660.8	605.7	508.2	485.9
85°	146.7	151.4	210.1	250.0	220.6	213.6	361.5	400.3	367.4	319.2	287.6
87.5°	52.9	61.0	110.3	109.2	77.4	41.1	79.8	38.8	21.1	12.9	16.4
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)