

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: P648022

Luminaire Tested: **GALN-SA6A-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P648022
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-SA6A-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 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: 21249 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

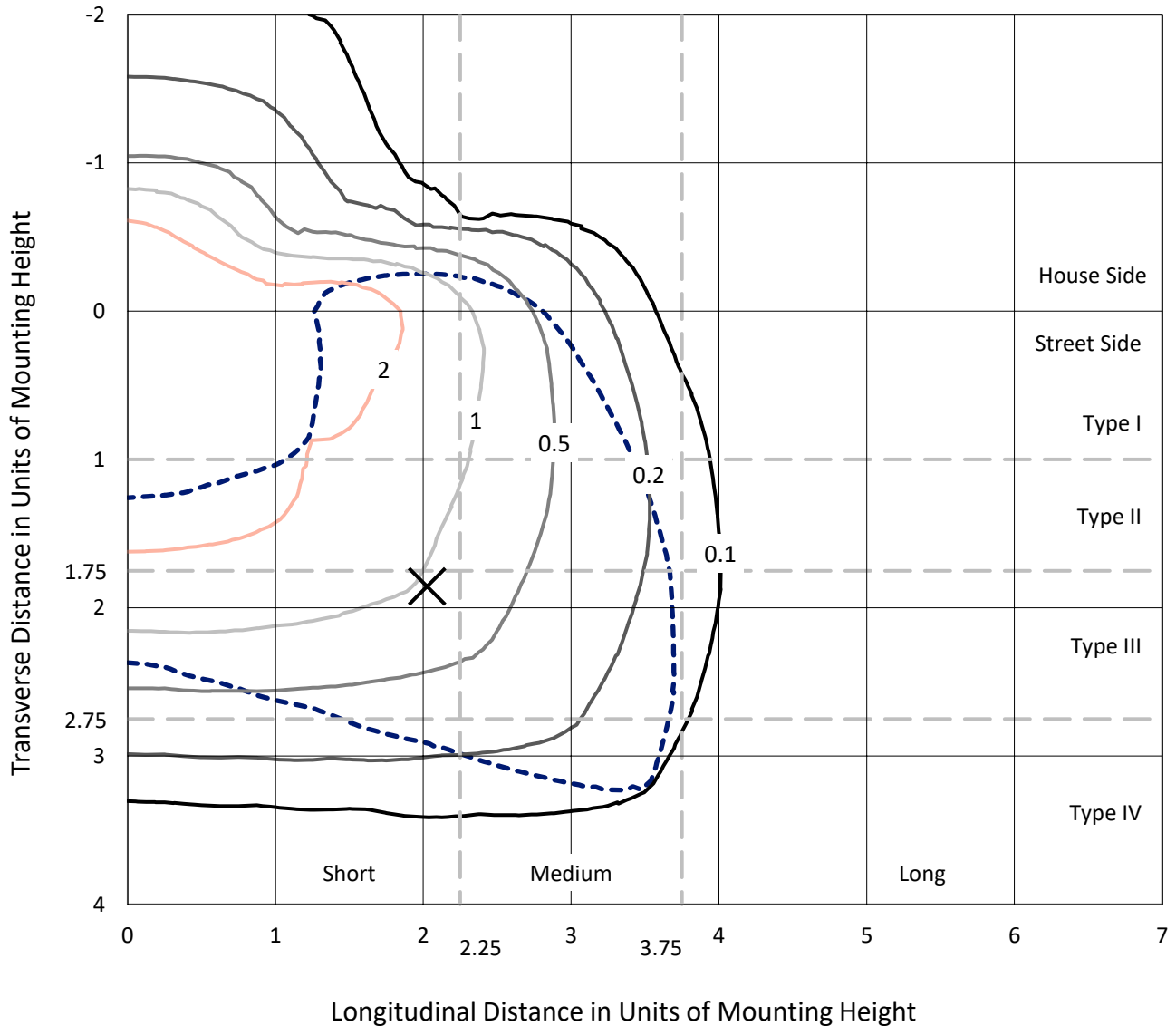
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

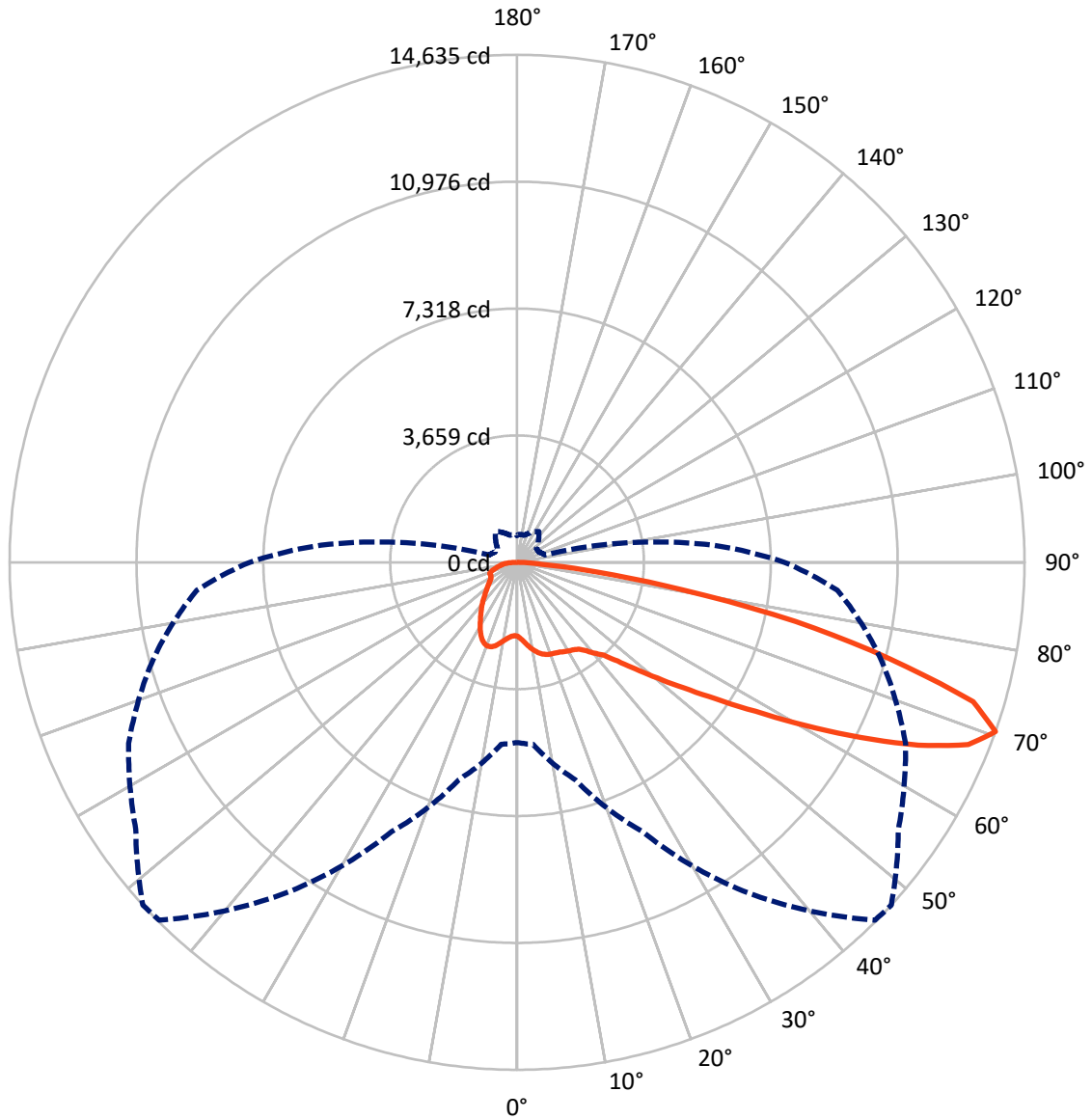
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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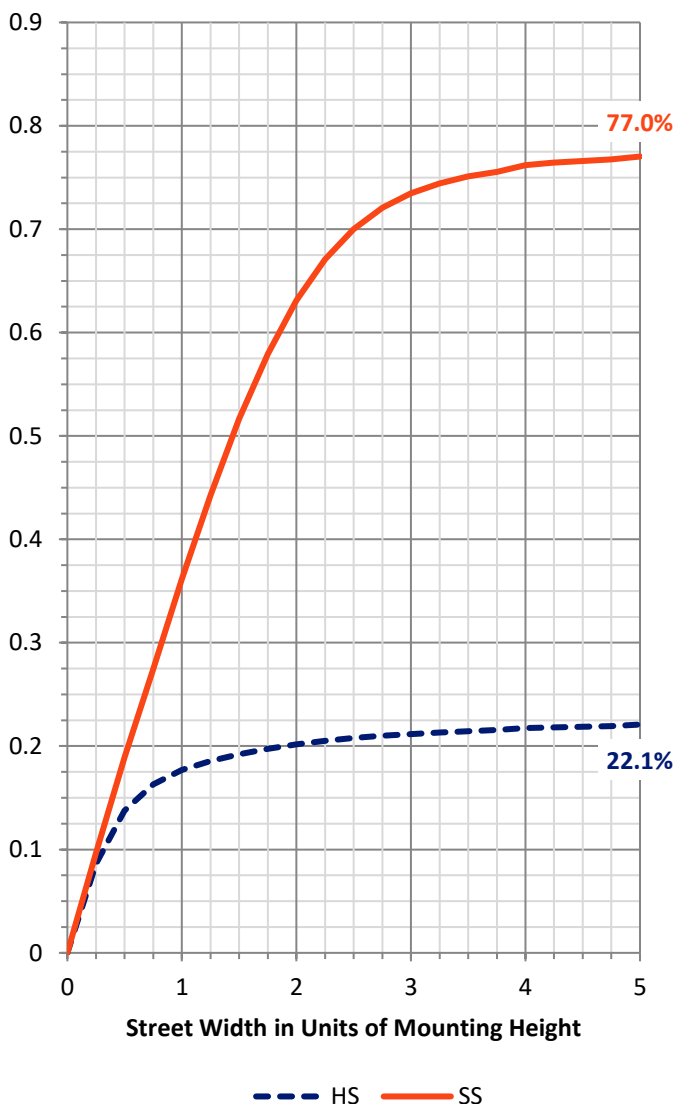
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4811.2	0.0	4811.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16437.9	0.0	16437.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	21249.0	0.0	21249.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	1.0
10°-20°	735.1	3.5
20°-30°	1222.4	5.8
30°-40°	1732.6	8.2
40°-50°	2557.7	12.0
50°-60°	4430.1	20.8
60°-70°	6257.6	29.4
70°-80°	3597.2	16.9
80°-90°	496.3	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°	21249.0	100.0
0°-180°	21249.0	100.0

Coefficient of Utilization



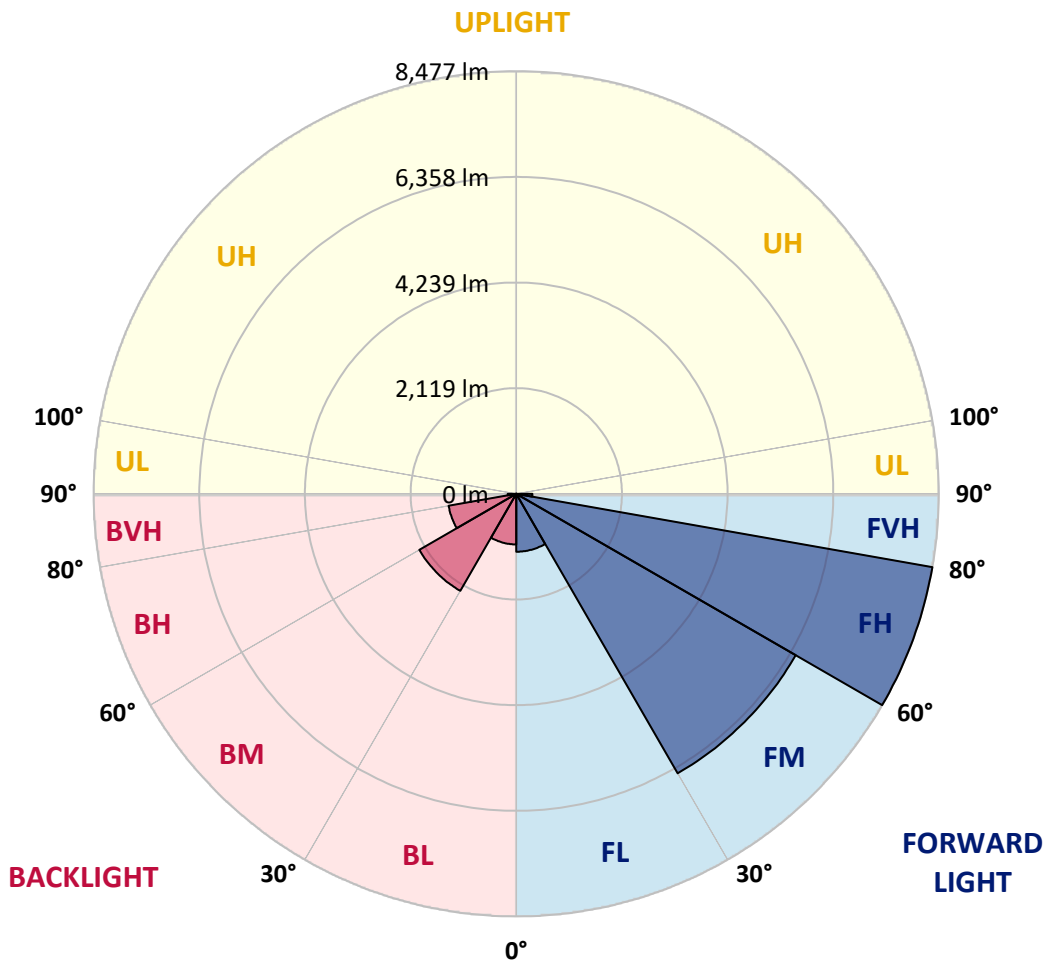
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1162.0	5.5			
FM (30°-60°)	6474.2	30.5			
FH (60°-80°)	8477.5	39.9			G4/12000
FVH (80°-90°)	324.2	1.5			G3/500
BL (0°-30°)	1015.4	4.8	B3/2500		
BM (30°-60°)	2246.3	10.6	B2/2500		
BH (60°-80°)	1377.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	172.1	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°	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1
2.5°	2270.7	2262.8	2261.6	2244.5	2235.5	2218.4	2211.6	2195.7	2176.3	2157.0	2138.8
5°	2449.2	2449.2	2441.3	2417.4	2379.9	2341.2	2324.2	2293.5	2238.9	2194.5	2157.0
7.5°	2632.3	2634.6	2618.7	2583.4	2530.0	2467.5	2451.5	2406.1	2328.7	2263.9	2208.2
10°	2790.4	2790.4	2768.8	2721.0	2653.9	2585.7	2569.8	2518.6	2432.2	2351.5	2278.7
12.5°	2910.9	2910.9	2882.5	2820.0	2747.2	2685.8	2667.6	2618.7	2537.9	2448.1	2356.0
15°	2989.3	2983.7	2951.8	2881.4	2810.8	2757.4	2744.9	2703.9	2630.0	2539.1	2435.6
17.5°	2992.8	2990.5	2959.8	2900.7	2839.2	2802.9	2794.9	2767.7	2709.6	2623.2	2514.1
20°	2926.9	2931.4	2910.9	2868.8	2839.2	2823.3	2820.0	2810.8	2769.9	2689.2	2580.0
22.5°	2856.3	2864.3	2845.0	2822.2	2820.0	2835.9	2838.1	2840.4	2814.3	2735.8	2635.7
25°	2839.2	2845.0	2825.6	2805.2	2817.7	2859.8	2868.8	2877.9	2857.5	2791.6	2701.7
27.5°	2925.7	2921.1	2883.6	2839.2	2847.2	2904.1	2916.6	2926.9	2916.6	2859.8	2783.6
30°	3170.1	3155.4	3080.3	2950.7	2909.8	2949.6	2962.1	2990.5	2990.5	2948.5	2872.3
32.5°	3579.5	3551.1	3413.5	3158.8	3016.7	2992.8	3005.3	3051.9	3075.8	3042.8	2959.8
35°	4076.4	4046.9	3850.2	3507.8	3212.3	3079.2	3075.8	3128.1	3191.7	3117.8	3009.9
37.5°	4575.6	4544.8	4308.4	3924.0	3497.7	3261.1	3240.7	3258.8	3286.2	3150.8	3079.2
40°	5074.8	5038.4	4831.4	4389.1	3846.7	3502.2	3448.7	3366.9	3355.5	3258.8	3213.4
42.5°	5569.4	5536.4	5431.8	4911.1	4265.2	3737.6	3655.7	3514.7	3557.9	3499.9	3460.1
45°	6068.6	6070.8	5959.4	5496.6	4770.0	4171.9	4061.7	3841.0	3943.3	3921.7	3944.5
47.5°	6510.9	6505.2	6465.4	6065.1	5396.5	4731.4	4589.2	4333.4	4508.5	4588.1	4762.0
50°	6939.6	6936.1	6938.4	6709.8	6124.3	5396.5	5239.6	4971.3	5365.8	5642.1	5953.7
52.5°	7553.6	7572.9	7435.3	7375.1	7008.9	6182.3	6009.4	5732.0	6378.9	6814.4	7422.8
55°	8169.9	8153.9	8046.0	8108.4	7934.5	7112.4	6931.6	6711.0	7506.9	7983.4	8897.6
57.5°	8532.6	8538.3	8648.5	8954.5	9077.2	8272.2	8108.4	7937.9	8774.8	9112.5	10209.8
60°	8858.9	8885.1	9202.4	9780.0	10113.1	9697.0	9551.4	9385.4	9938.0	10072.2	11349.1
62.5°	8961.3	9042.0	9595.7	10459.9	11122.8	11304.8	11124.0	10757.9	11045.5	10993.2	12121.2
65°	8450.8	8561.0	9553.7	10714.7	12024.5	12830.7	12715.9	12035.9	11989.3	11674.3	12247.5
67.5°	7106.7	7217.0	8491.6	10180.3	12397.5	14152.0	14037.2	12968.3	12562.4	11738.0	11292.3
70°	5199.8	5269.2	6488.2	8571.3	11648.1	14595.4	14635.3	13423.1	12357.7	10872.7	9271.7
72.5°	2996.1	3149.7	4003.6	6029.9	9516.2	13474.3	13750.7	12477.1	11063.7	9070.4	6482.5
75°	1288.3	1291.7	1851.2	3325.9	6445.0	10830.6	11097.9	10342.8	8688.4	6272.1	3461.3
77.5°	612.9	624.3	814.2	1485.0	3547.7	7483.1	8204.0	7306.8	5556.9	3013.2	1307.6
80°	398.0	405.9	498.1	736.8	1739.7	4339.1	4841.7	4215.1	2451.5	1076.8	564.0
82.5°	241.1	243.4	333.2	450.3	957.5	1964.9	2316.2	1829.6	1046.1	644.7	332.0
85°	146.7	147.8	202.4	278.6	581.1	678.9	697.0	691.3	614.0	421.9	177.3
87.5°	70.5	72.7	104.6	131.9	228.6	210.4	199.0	230.8	289.9	227.4	76.2
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°	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1	2133.1
2.5°	2130.9	2127.5	2119.5	2116.1	2113.8	2115.0	2113.8	2113.8	2115.0	2115.0	2115.0
5°	2141.1	2135.4	2122.9	2122.9	2129.8	2145.7	2160.5	2171.8	2184.3	2183.2	2183.2
7.5°	2185.4	2175.3	2160.5	2165.0	2182.1	2207.0	2233.2	2258.3	2283.2	2285.5	2284.4
10°	2250.3	2240.0	2224.1	2229.8	2257.1	2294.6	2327.6	2364.0	2391.3	2399.2	2396.9
12.5°	2324.2	2303.7	2290.0	2306.0	2349.2	2399.2	2431.1	2458.4	2477.6	2489.1	2484.5
15°	2399.2	2379.9	2364.0	2396.9	2449.2	2495.9	2511.8	2516.3	2519.8	2531.1	2528.9
17.5°	2472.0	2445.9	2440.1	2483.4	2533.4	2553.8	2544.8	2525.4	2510.7	2519.8	2518.6
20°	2536.8	2516.3	2514.1	2557.3	2576.6	2557.3	2518.6	2484.5	2458.4	2460.7	2459.5
22.5°	2598.2	2582.3	2584.6	2602.8	2572.1	2506.1	2442.4	2395.8	2367.4	2373.0	2376.5
25°	2666.4	2650.5	2656.2	2626.7	2525.4	2410.6	2318.5	2278.7	2267.3	2278.7	2286.7
27.5°	2755.1	2744.9	2741.5	2627.7	2442.4	2269.6	2165.0	2150.2	2160.5	2185.4	2198.0
30°	2850.7	2850.7	2832.4	2608.4	2328.7	2100.2	2009.2	2011.4	2046.8	2082.0	2094.5
32.5°	2942.7	2962.1	2905.2	2556.1	2182.1	1935.3	1866.0	1868.2	1898.9	1942.2	1953.5
35°	3018.9	3074.7	2967.7	2460.7	2009.2	1796.6	1744.3	1713.6	1714.7	1747.7	1756.8
37.5°	3123.5	3227.0	3004.1	2318.5	1825.0	1678.3	1619.2	1565.8	1530.5	1516.8	1516.8
40°	3305.4	3457.8	3013.2	2108.1	1651.0	1565.8	1481.6	1417.9	1349.7	1288.3	1276.9
42.5°	3613.6	3805.8	2995.1	1866.0	1494.1	1441.8	1359.9	1281.5	1187.1	1100.7	1093.9
45°	4159.5	4258.3	2946.2	1614.6	1354.3	1322.4	1242.9	1157.5	1057.4	980.2	974.4
47.5°	5033.8	4894.0	2881.4	1391.8	1226.9	1217.8	1156.4	1057.4	957.5	904.0	898.3
50°	6310.7	5894.6	2872.3	1230.3	1124.5	1129.1	1079.1	988.1	900.5	856.2	849.4
52.5°	7848.1	7103.3	2932.5	1116.6	1034.7	1051.8	1026.7	942.7	865.3	827.8	821.0
55°	9339.9	8190.3	2968.9	1027.9	950.6	982.4	985.9	915.3	844.9	807.4	802.8
57.5°	10550.9	9009.0	2807.4	947.2	877.8	926.7	951.7	899.4	834.6	806.2	801.6
60°	11393.5	9395.6	2348.1	875.6	824.3	882.4	939.2	900.5	859.7	863.0	865.3
62.5°	11661.8	9224.0	1761.4	822.1	788.0	867.6	959.7	947.2	905.1	931.3	935.8
65°	11217.3	8514.4	1276.9	780.0	756.1	877.8	1021.1	981.3	889.2	908.5	908.5
67.5°	9728.8	7335.2	993.8	741.3	719.7	897.2	1082.5	977.9	851.7	874.4	853.9
70°	7717.3	5674.0	827.8	698.2	681.1	868.7	1088.2	942.7	807.4	811.9	773.2
72.5°	5121.4	3730.8	711.8	657.3	622.0	781.2	1041.5	897.2	764.1	738.0	699.3
75°	2509.5	1860.3	620.8	606.0	544.7	680.0	977.9	853.9	717.5	676.6	655.0
77.5°	972.2	791.4	529.9	541.2	474.2	599.2	893.7	792.6	656.1	600.4	583.3
80°	471.9	449.1	434.3	451.4	390.0	510.5	816.4	739.1	599.2	537.8	512.8
82.5°	293.4	277.4	333.2	351.3	300.2	466.2	774.3	693.6	527.6	445.8	425.2
85°	148.9	159.2	222.8	239.9	214.9	370.7	637.9	520.8	380.9	316.1	318.4
87.5°	56.8	76.2	117.1	126.2	114.9	195.6	351.3	303.6	244.5	166.0	153.5
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)