

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: P522709

Luminaire Tested: **GALN-SA3C-760-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522709
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-SA3C-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21003 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

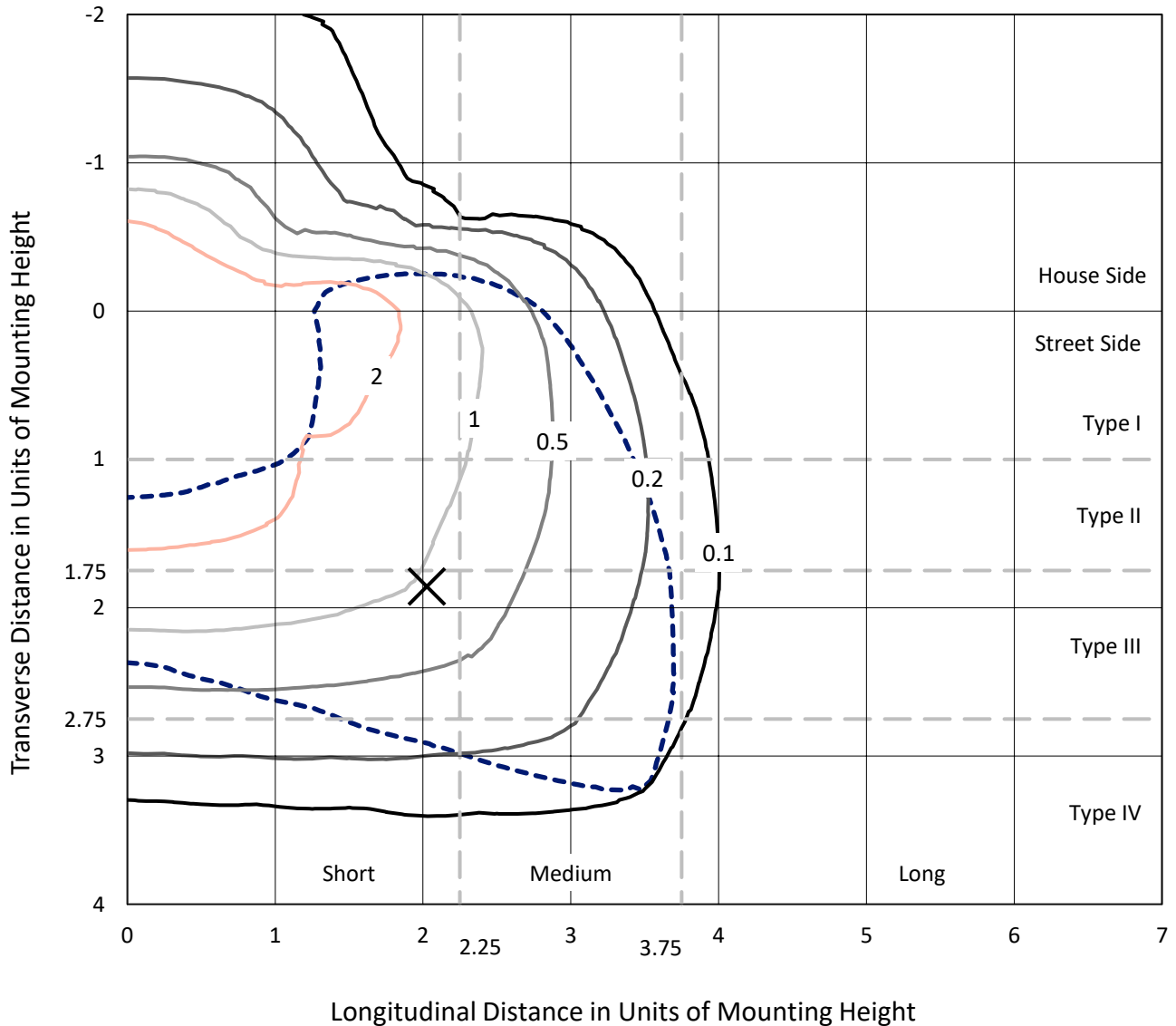
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

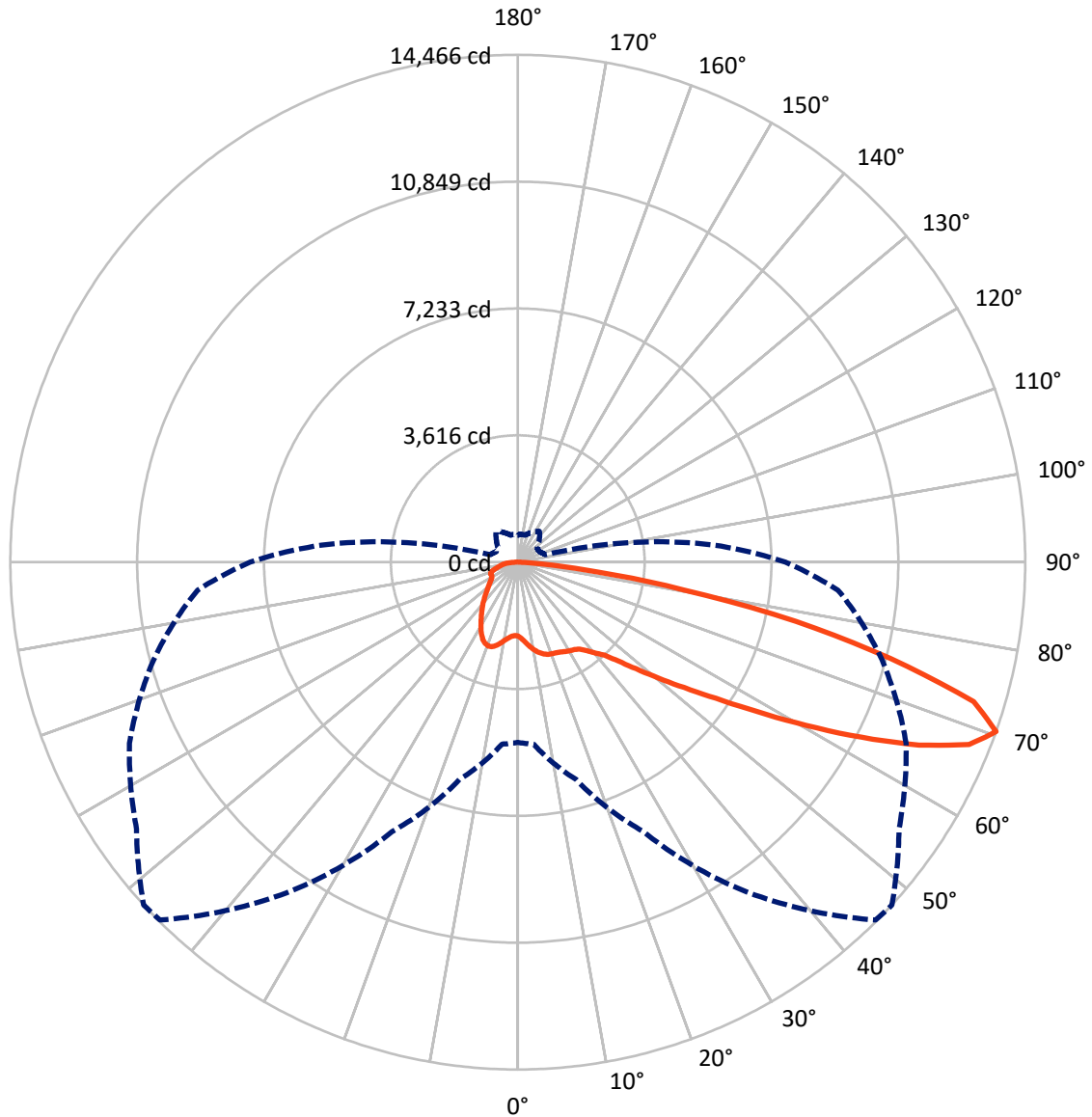
✕ Max cd
 - - - 1/2 Max cd



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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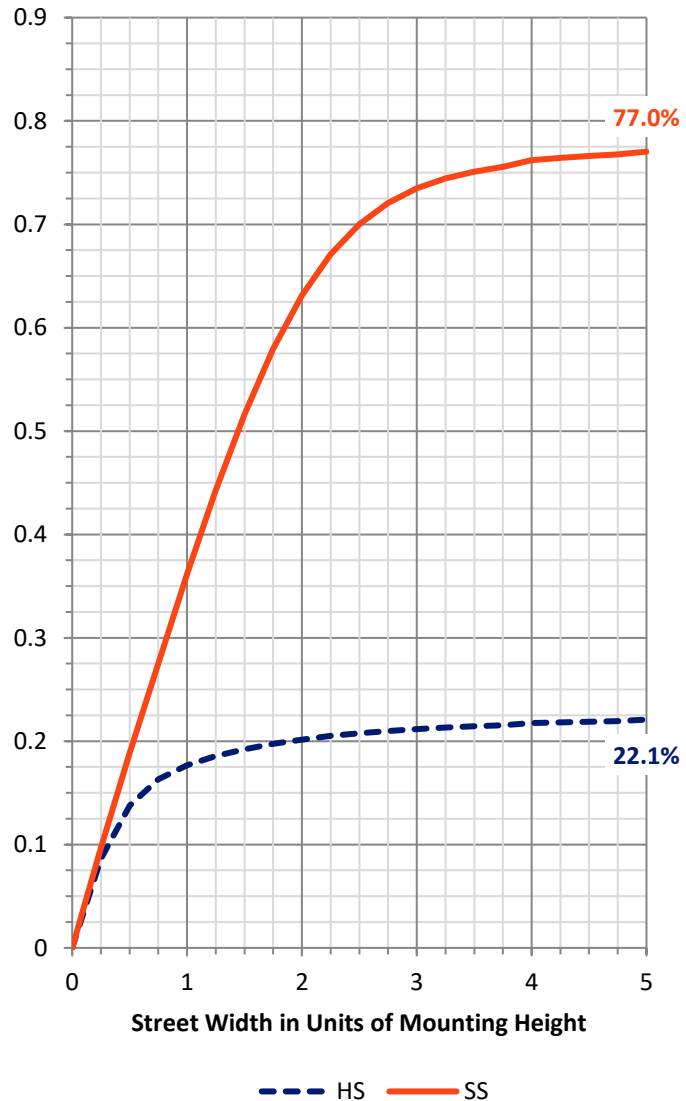
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4755.5	0.0	4755.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	16247.5	0.0	16247.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	21003.0	0.0	21003.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.3	1.0
10°-20°	726.6	3.5
20°-30°	1208.3	5.8
30°-40°	1712.6	8.2
40°-50°	2528.1	12.0
50°-60°	4378.8	20.8
60°-70°	6185.2	29.4
70°-80°	3555.6	16.9
80°-90°	490.6	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°	21003.0	100.0
0°-180°	21003.0	100.0



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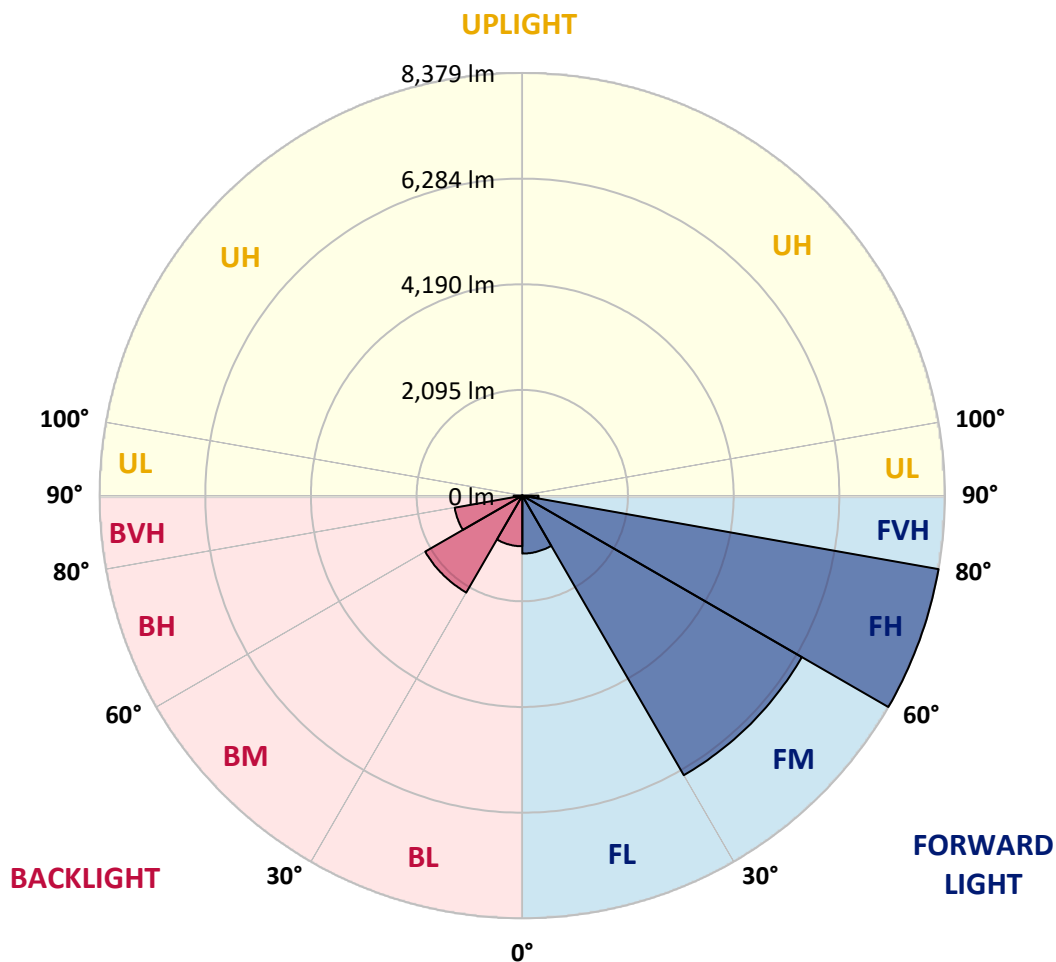
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1148.5	5.5			
FM (30°-60°)	6399.2	30.5			
FH (60°-80°)	8379.3	39.9			G4/12000
FVH (80°-90°)	320.5	1.5			G3/500
BL (0°-30°)	1003.7	4.8	B3/2500		
BM (30°-60°)	2220.3	10.6	B2/2500		
BH (60°-80°)	1361.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	170.1	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°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4
2.5°	2244.4	2236.6	2235.4	2218.6	2209.6	2192.7	2186.0	2170.3	2151.2	2132.1	2114.1
5°	2420.9	2420.9	2413.0	2389.4	2352.3	2314.1	2297.3	2266.9	2213.0	2169.1	2132.1
7.5°	2601.8	2604.1	2588.4	2553.5	2500.7	2438.9	2423.1	2378.2	2301.8	2237.7	2182.6
10°	2758.1	2758.1	2736.7	2689.5	2623.2	2555.8	2540.0	2489.5	2404.0	2324.2	2252.3
12.5°	2877.2	2877.2	2849.1	2787.3	2715.4	2654.7	2636.7	2588.4	2508.6	2419.8	2328.7
15°	2954.8	2949.1	2917.7	2848.0	2778.3	2725.5	2713.1	2672.6	2599.6	2509.7	2407.4
17.5°	2958.1	2955.9	2925.5	2867.1	2806.4	2770.4	2762.6	2735.6	2678.3	2592.9	2485.0
20°	2892.9	2897.4	2877.2	2835.6	2806.4	2790.7	2787.3	2778.3	2737.8	2658.0	2550.1
22.5°	2823.3	2831.1	2812.0	2789.5	2787.3	2803.0	2805.3	2807.5	2781.7	2704.1	2605.2
25°	2806.4	2812.0	2792.9	2772.7	2785.0	2826.6	2835.6	2844.6	2824.4	2759.2	2670.4
27.5°	2891.8	2887.3	2850.2	2806.4	2814.3	2870.5	2882.8	2892.9	2882.8	2826.6	2751.3
30°	3133.5	3118.8	3044.7	2916.5	2876.1	2915.4	2927.8	2955.9	2955.9	2914.3	2839.0
32.5°	3538.1	3510.0	3374.0	3122.2	2981.7	2958.1	2970.5	3016.6	3040.2	3007.6	2925.5
35°	4029.2	4000.0	3805.5	3467.3	3175.0	3043.5	3040.2	3091.9	3154.8	3081.8	2975.0
37.5°	4522.6	4492.3	4258.5	3878.6	3457.1	3223.4	3203.1	3221.1	3248.1	3114.3	3043.5
40°	5016.0	4980.0	4775.5	4338.3	3802.2	3461.6	3408.8	3327.9	3316.6	3221.1	3176.2
42.5°	5504.9	5472.3	5368.9	4854.2	4215.8	3694.3	3613.4	3474.0	3516.7	3459.4	3420.0
45°	5998.3	6000.5	5890.4	5433.0	4714.8	4123.6	4014.6	3796.6	3897.7	3876.4	3898.8
47.5°	6435.5	6429.9	6390.5	5994.9	5334.1	4676.6	4536.1	4283.2	4456.3	4535.0	4706.9
50°	6859.2	6855.8	6858.1	6632.2	6053.4	5334.1	5179.0	4913.7	5303.7	5576.8	5884.8
52.5°	7466.1	7485.2	7349.2	7289.7	6927.8	6110.7	5939.8	5665.6	6305.1	6735.6	7336.9
55°	8075.3	8059.5	7952.8	8014.6	7842.6	7030.0	6851.3	6633.3	7420.0	7890.9	8794.6
57.5°	8433.8	8439.4	8548.4	8850.8	8972.1	8176.4	8014.6	7846.0	8673.2	9007.0	10091.6
60°	8756.4	8782.2	9095.8	9666.7	9996.0	9584.7	9440.8	9276.7	9822.9	9955.6	11217.7
62.5°	8857.5	8937.3	9484.6	10338.8	10994.1	11173.9	10995.2	10633.3	10917.6	10865.9	11980.8
65°	8352.9	8461.9	9443.1	10590.6	11885.3	12682.2	12568.6	11896.5	11850.5	11539.1	12105.6
67.5°	7024.4	7133.4	8393.3	10062.3	12254.0	13988.1	13874.6	12818.2	12416.9	11602.1	11161.5
70°	5139.6	5208.2	6413.0	8472.0	11513.3	14426.5	14465.8	13267.7	12214.6	10746.8	9164.3
72.5°	2961.5	3113.2	3957.3	5960.1	9406.0	13318.3	13591.4	12332.6	10935.6	8965.4	6407.4
75°	1273.4	1276.8	1829.7	3287.4	6370.3	10705.2	10969.3	10223.1	8587.8	6199.5	3421.2
77.5°	605.8	617.0	804.7	1467.8	3506.6	7396.4	8109.0	7222.2	5492.5	2978.4	1292.5
80°	393.4	401.2	492.3	728.3	1719.6	4288.8	4785.6	4166.3	2423.1	1064.3	557.5
82.5°	238.3	240.5	329.3	445.1	946.3	1942.1	2289.4	1808.4	1034.0	637.3	328.2
85°	145.0	146.1	200.1	275.4	574.3	671.0	689.0	683.3	606.9	417.0	175.3
87.5°	69.7	71.9	103.4	130.4	225.9	207.9	196.7	228.2	286.6	224.8	75.3
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°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4
2.5°	2106.2	2102.8	2095.0	2091.6	2089.3	2090.5	2089.3	2089.3	2090.5	2090.5	2090.5
5°	2116.3	2110.7	2098.3	2098.3	2105.1	2120.8	2135.4	2146.7	2159.0	2157.9	2157.9
7.5°	2160.1	2150.0	2135.4	2139.9	2156.8	2181.5	2207.4	2232.1	2256.8	2259.1	2257.9
10°	2224.2	2214.1	2198.4	2204.0	2231.0	2268.0	2300.6	2336.6	2363.6	2371.4	2369.2
12.5°	2297.3	2277.0	2263.5	2279.3	2322.0	2371.4	2402.9	2429.9	2449.0	2460.2	2455.7
15°	2371.4	2352.3	2336.6	2369.2	2420.9	2467.0	2482.7	2487.2	2490.6	2501.8	2499.6
17.5°	2443.4	2417.5	2411.9	2454.6	2504.1	2524.3	2515.3	2496.2	2481.6	2490.6	2489.5
20°	2507.4	2487.2	2485.0	2527.7	2546.8	2527.7	2489.5	2455.7	2429.9	2432.1	2431.0
22.5°	2568.1	2552.4	2554.6	2572.6	2542.3	2477.1	2414.2	2368.1	2340.0	2345.6	2349.0
25°	2635.6	2619.8	2625.4	2596.2	2496.2	2382.7	2291.6	2252.3	2241.1	2252.3	2260.2
27.5°	2723.2	2713.1	2709.7	2597.3	2414.2	2243.3	2139.9	2125.3	2135.4	2160.1	2172.5
30°	2817.6	2817.6	2799.7	2578.2	2301.8	2075.9	1985.9	1988.2	2023.0	2057.9	2070.2
32.5°	2908.7	2927.8	2871.6	2526.5	2156.8	1912.9	1844.3	1846.6	1876.9	1919.6	1930.9
35°	2984.0	3039.0	2933.4	2432.1	1985.9	1775.8	1724.1	1693.7	1694.9	1727.4	1736.4
37.5°	3087.4	3189.6	2969.4	2291.6	1803.9	1658.9	1600.4	1547.6	1512.8	1499.3	1499.3
40°	3267.2	3417.8	2978.4	2083.7	1631.9	1547.6	1464.5	1401.5	1334.1	1273.4	1262.1
42.5°	3571.8	3761.7	2960.4	1844.3	1476.8	1425.1	1344.2	1266.6	1173.4	1087.9	1081.2
45°	4111.2	4209.0	2912.0	1595.9	1338.6	1307.1	1228.4	1144.1	1045.2	968.8	963.2
47.5°	4975.5	4837.3	2848.0	1375.7	1212.7	1203.7	1143.0	1045.2	946.3	893.5	887.9
50°	6237.7	5826.3	2839.0	1216.1	1111.5	1116.0	1066.6	976.7	890.1	846.3	839.6
52.5°	7757.2	7021.0	2898.6	1103.7	1022.8	1039.6	1014.9	931.7	855.3	818.2	811.5
55°	9231.8	8095.5	2934.5	1016.0	939.6	971.1	974.4	904.7	835.1	798.0	793.5
57.5°	10428.7	8904.7	2774.9	936.2	867.7	916.0	940.7	889.0	824.9	796.8	792.4
60°	11261.5	9286.8	2320.9	865.4	814.8	872.2	928.3	890.1	849.7	853.0	855.3
62.5°	11526.8	9117.1	1740.9	812.6	778.9	857.5	948.6	936.2	894.6	920.5	925.0
65°	11087.3	8415.8	1262.1	771.0	747.4	867.7	1009.3	969.9	878.9	898.0	898.0
67.5°	9616.1	7250.3	982.3	732.8	711.4	886.8	1070.0	966.6	841.8	864.3	844.1
70°	7628.0	5608.3	818.2	690.1	673.2	858.7	1075.6	931.7	798.0	802.5	764.3
72.5°	5062.1	3687.5	703.6	649.6	614.8	772.1	1029.5	886.8	755.3	729.4	691.2
75°	2480.5	1838.7	613.7	599.0	538.4	672.1	966.6	844.1	709.2	668.7	647.4
77.5°	960.9	782.2	523.7	535.0	468.7	592.3	883.4	783.4	648.5	593.4	576.6
80°	466.4	443.9	429.3	446.2	385.5	504.6	807.0	730.5	592.3	531.6	506.9
82.5°	290.0	274.2	329.3	347.3	296.7	460.8	765.4	685.6	521.5	440.6	420.3
85°	147.2	157.3	220.3	237.1	212.4	366.4	630.5	514.7	376.5	312.4	314.7
87.5°	56.2	75.3	115.8	124.8	113.5	193.3	347.3	300.1	241.6	164.1	151.7
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)