

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: P383101

Luminaire Tested: **GLEON-SA4B-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383101
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21324.1 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

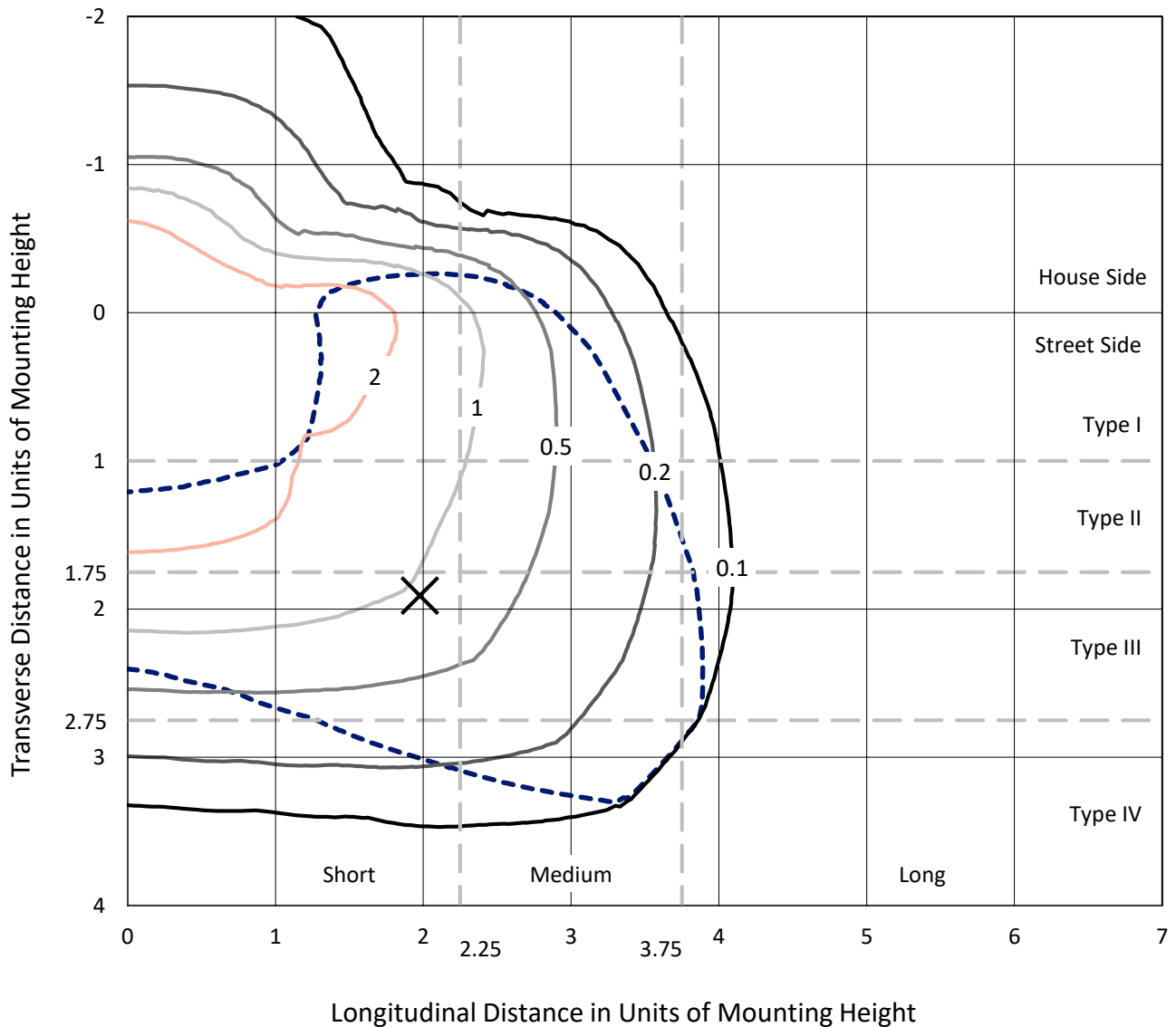
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

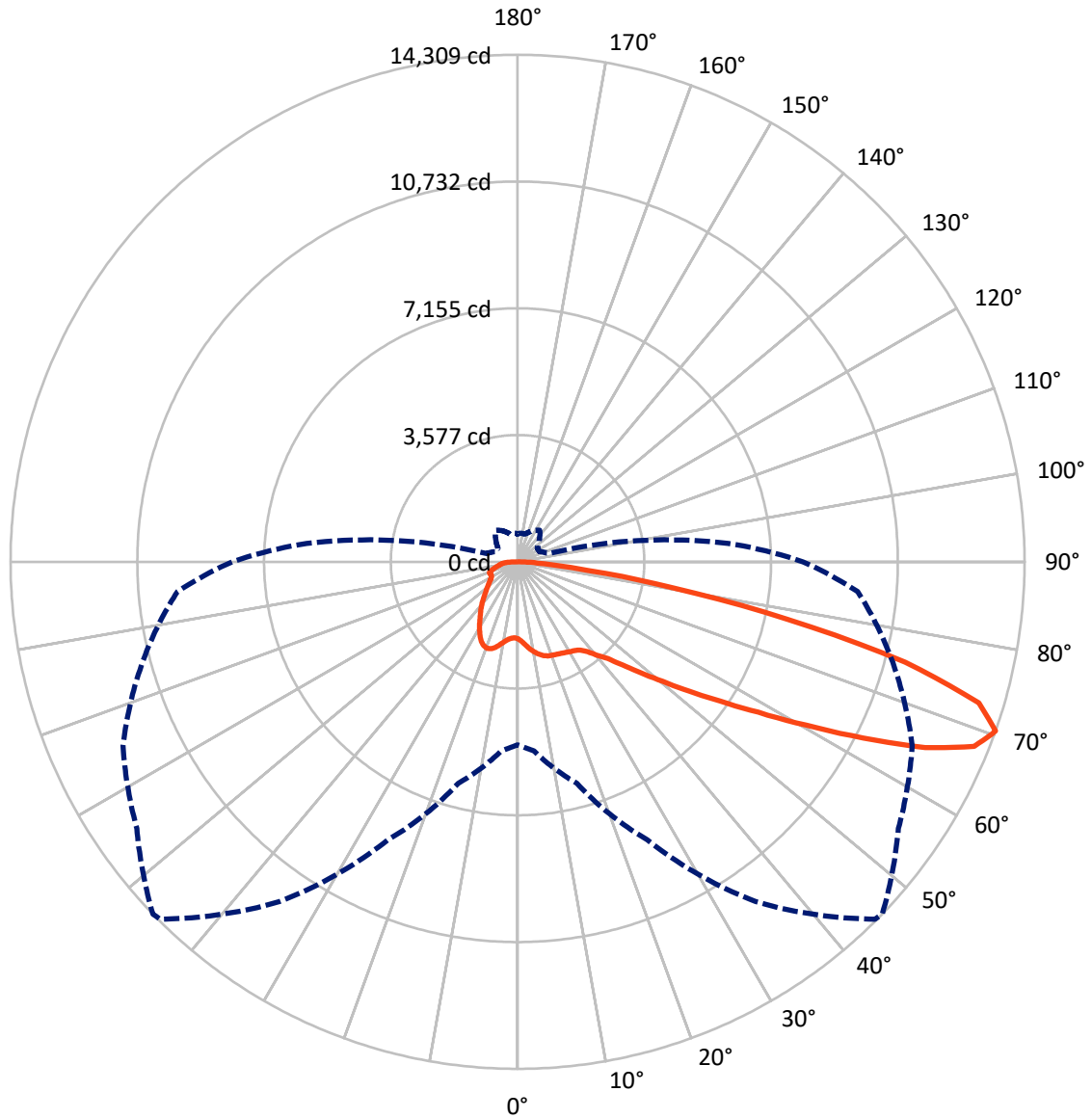
✕ Max cd
 - - - 1/2 Max cd



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 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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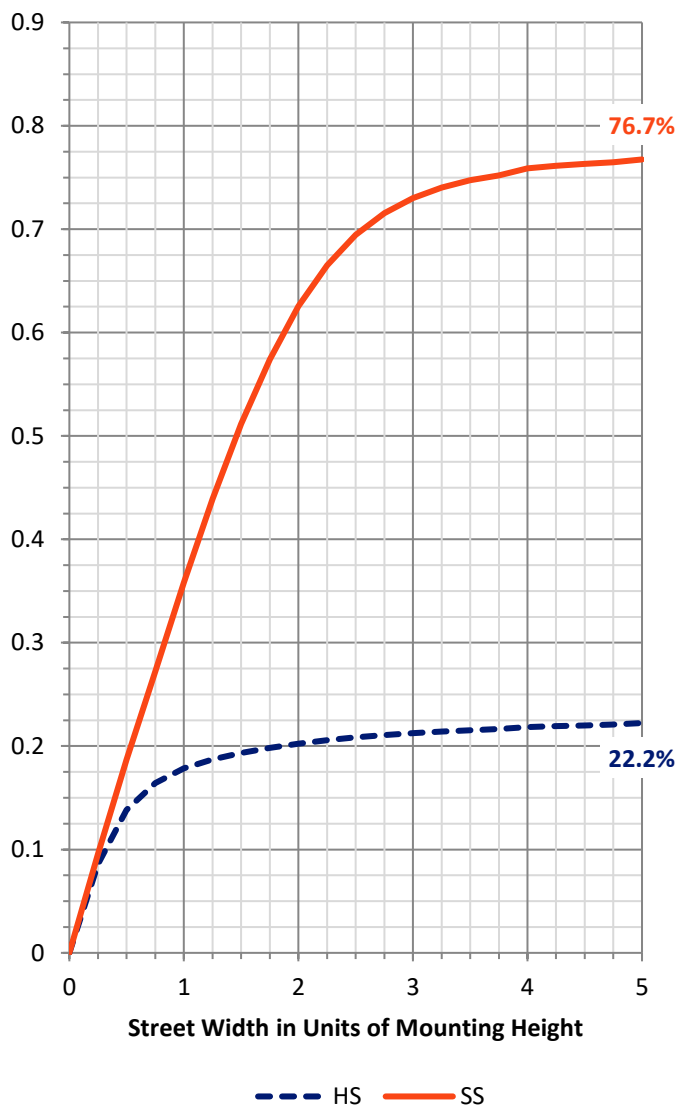
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4887.4	0.0	4887.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16436.7	0.0	16436.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	21324.1	0.0	21324.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.5	1.0
10°-20°	737.9	3.5
20°-30°	1230.3	5.8
30°-40°	1745.9	8.2
40°-50°	2568.1	12.0
50°-60°	4349.1	20.4
60°-70°	6173.5	29.0
70°-80°	3750.4	17.6
80°-90°	547.3	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°	21324.1	100.0
0°-180°	21324.1	100.0

Coefficient of Utilization



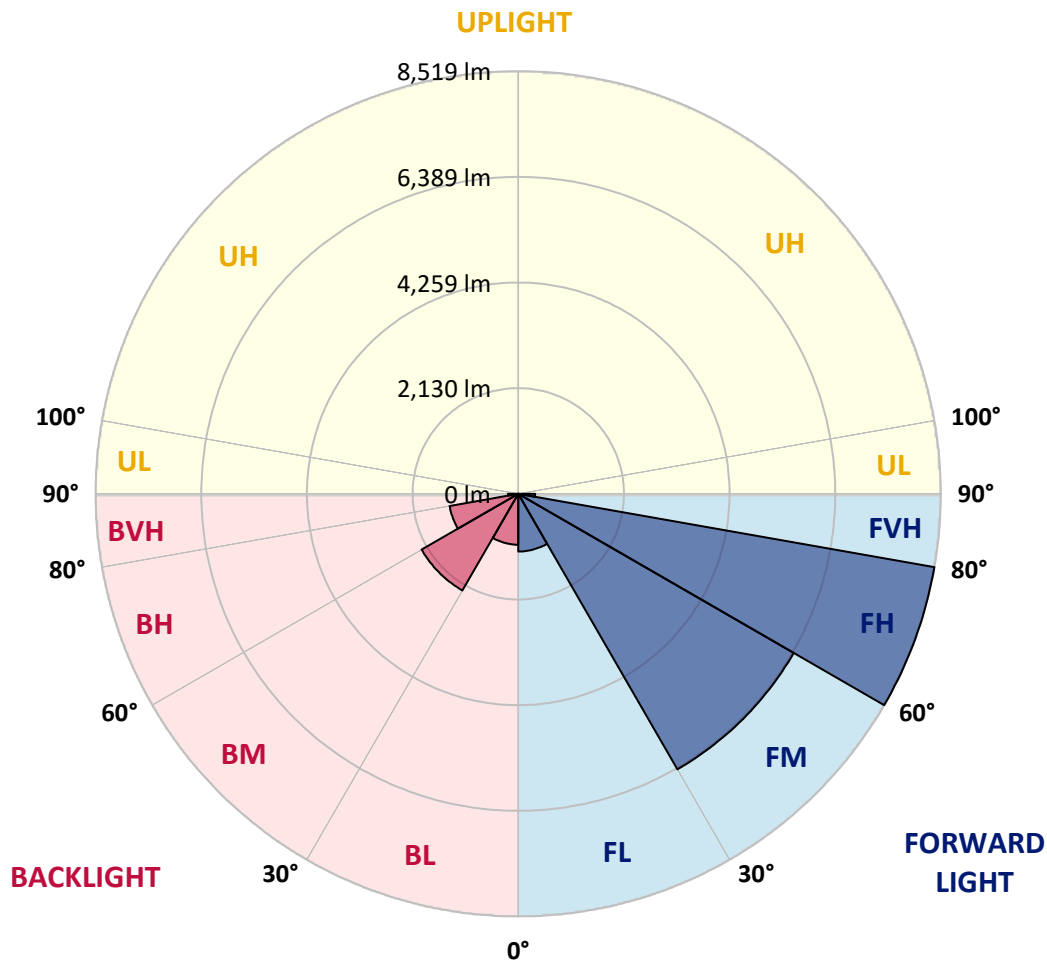
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.5	5.5			
FM (30°-60°)	6413.3	30.1			
FH (60°-80°)	8518.8	39.9			G4/12000
FVH (80°-90°)	340.9	1.6			G3/500
BL (0°-30°)	1026.1	4.8	B3/2500		
BM (30°-60°)	2249.8	10.6	B2/2500		
BH (60°-80°)	1405.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	206.4	1.0			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°	46°	55°	65°	75°	85°
0°	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5
2.5°	2281.3	2282.7	2285.6	2278.3	2257.9	2252.0	2249.9	2228.7	2214.8	2194.4	2176.8
5°	2463.7	2465.2	2460.8	2440.3	2395.1	2361.5	2358.6	2310.4	2266.6	2220.0	2184.9
7.5°	2654.2	2656.3	2642.4	2603.8	2540.3	2481.9	2478.3	2412.6	2346.2	2275.4	2222.9
10°	2822.7	2813.9	2791.4	2737.4	2662.2	2590.6	2587.7	2519.2	2442.5	2357.1	2287.0
12.5°	2935.1	2927.9	2898.6	2832.9	2750.5	2684.8	2678.9	2615.5	2541.1	2447.6	2363.7
15°	2997.2	3002.3	2962.9	2888.4	2808.2	2752.6	2747.6	2702.3	2635.9	2541.7	2445.4
17.5°	3005.2	3009.6	2971.6	2897.9	2832.2	2794.3	2792.0	2762.1	2714.0	2623.5	2522.8
20°	2958.5	2961.4	2930.0	2869.4	2826.4	2814.7	2813.9	2800.8	2765.1	2684.8	2587.0
22.5°	2890.6	2892.7	2870.2	2826.4	2811.8	2830.0	2835.2	2830.0	2804.5	2729.3	2637.4
25°	2873.8	2872.3	2849.0	2804.5	2816.9	2855.6	2862.1	2864.3	2846.8	2781.1	2701.6
27.5°	2954.8	2949.7	2905.2	2833.7	2841.7	2888.4	2897.1	2918.4	2907.4	2849.7	2774.5
30°	3189.1	3180.3	3089.1	2944.6	2905.2	2929.3	2940.2	2973.8	2976.0	2927.9	2871.6
32.5°	3584.6	3573.6	3410.2	3151.9	3012.4	2970.9	2981.0	3031.4	3058.5	3021.2	2960.6
35°	4084.5	4072.1	3857.5	3504.3	3191.9	3050.4	3057.7	3097.9	3151.9	3099.3	3019.1
37.5°	4605.6	4575.6	4369.1	3918.8	3477.3	3220.5	3220.5	3225.6	3251.1	3141.6	3087.6
40°	5123.7	5093.7	4906.9	4406.3	3846.5	3488.3	3471.5	3358.3	3337.9	3243.8	3225.6
42.5°	5605.3	5596.6	5486.3	4957.3	4280.1	3751.7	3728.3	3536.4	3540.8	3482.4	3483.1
45°	6117.6	6117.6	6027.9	5513.4	4785.1	4175.0	4151.6	3869.2	3913.0	3886.0	3951.0
47.5°	6535.7	6548.9	6536.5	6092.8	5372.5	4712.8	4670.5	4330.4	4453.0	4545.7	4734.7
50°	6962.7	6983.1	6985.3	6728.4	6082.5	5352.1	5304.0	4942.7	5216.4	5482.0	5853.5
52.5°	7582.2	7628.3	7445.0	7362.6	6952.4	6111.0	6063.6	5730.1	6187.0	6559.9	7199.8
55°	8156.5	8116.4	7985.8	8036.8	7883.6	6975.1	6939.3	6646.7	7268.4	7753.0	8584.2
57.5°	8467.4	8464.5	8595.9	8814.8	8887.8	8040.6	8010.6	7726.0	8487.9	8852.0	9883.9
60°	8832.3	8837.4	9162.9	9659.9	9960.6	9367.3	9354.1	9138.1	9672.3	9878.0	10903.4
62.5°	8883.4	8975.4	9535.8	10391.1	10964.7	10917.3	10946.4	10410.0	10731.9	10696.9	11664.6
65°	8296.0	8417.1	9431.5	10612.2	11963.0	12612.5	12639.5	11689.3	11567.5	11396.7	11936.8
67.5°	7091.9	7271.4	8373.3	10131.3	12292.1	13865.5	13903.4	12681.1	12260.8	11633.9	11281.4
70°	5160.9	5360.1	6469.3	8652.8	11705.4	14266.1	14309.2	13119.6	12287.0	10958.8	9630.7
72.5°	3117.5	3273.7	4188.1	6370.1	9879.5	13536.4	13613.0	12563.6	11217.9	9282.6	7111.5
75°	1369.0	1471.2	2025.1	3670.7	7072.9	11199.6	11295.3	10753.8	9114.7	6745.9	4203.4
77.5°	583.1	612.3	830.5	1594.5	3998.4	7653.0	7784.4	7857.3	6184.0	3670.7	1776.3
80°	363.4	375.1	470.0	721.8	1871.1	4298.3	4439.8	4623.1	3070.8	1349.3	620.3
82.5°	221.1	234.3	312.3	436.4	974.2	1948.4	2016.3	2145.5	1191.7	583.1	321.1
85°	132.8	142.3	191.2	275.8	554.6	766.3	765.5	846.5	561.2	375.1	169.3
87.5°	63.5	70.8	102.2	143.0	279.5	287.6	269.3	305.1	340.8	245.9	85.4
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°	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5	2172.5
2.5°	2171.1	2168.1	2158.7	2151.3	2149.9	2145.5	2141.8	2144.0	2146.9	2147.7	2147.7
5°	2170.3	2162.3	2149.9	2144.8	2151.3	2160.1	2171.1	2185.6	2194.4	2201.0	2205.3
7.5°	2205.3	2190.0	2176.2	2173.2	2186.3	2209.7	2234.5	2265.2	2286.4	2300.9	2303.9
10°	2263.8	2244.8	2230.9	2233.8	2257.1	2290.8	2325.8	2365.2	2397.2	2417.0	2418.4
12.5°	2330.8	2312.7	2299.5	2311.9	2350.6	2391.5	2427.9	2462.2	2491.4	2511.1	2511.1
15°	2408.2	2395.1	2379.7	2408.2	2460.8	2497.3	2512.6	2529.3	2545.5	2560.0	2557.1
17.5°	2482.7	2470.3	2462.2	2495.8	2550.5	2567.3	2557.1	2544.7	2544.7	2552.7	2554.2
20°	2546.9	2536.0	2541.1	2573.9	2602.4	2584.9	2546.9	2507.4	2491.4	2495.8	2500.2
22.5°	2603.0	2598.0	2613.3	2628.6	2608.1	2546.9	2476.8	2423.5	2403.9	2402.4	2403.9
25°	2668.7	2668.0	2687.0	2659.3	2568.7	2455.7	2361.5	2309.7	2298.8	2307.5	2322.1
27.5°	2750.5	2758.5	2768.0	2666.6	2488.5	2317.7	2222.1	2186.3	2197.3	2218.5	2232.4
30°	2854.8	2876.7	2856.3	2648.3	2373.2	2160.1	2068.9	2058.6	2088.6	2118.5	2133.1
32.5°	2956.3	2990.5	2941.0	2600.9	2224.3	1993.0	1922.2	1919.3	1955.8	1984.9	2005.3
35°	3038.0	3105.9	3004.4	2506.7	2052.1	1839.0	1787.2	1767.5	1780.7	1814.9	1838.3
37.5°	3144.5	3257.6	3048.2	2363.0	1865.2	1712.0	1651.4	1606.2	1594.5	1608.4	1620.1
40°	3339.4	3489.0	3068.6	2162.3	1682.8	1585.0	1523.7	1457.3	1411.4	1377.8	1378.5
42.5°	3657.5	3790.4	3055.5	1918.5	1514.2	1460.9	1391.6	1315.1	1240.6	1164.7	1158.8
45°	4174.3	4238.4	3016.1	1660.2	1366.1	1331.1	1266.2	1189.5	1090.3	1004.1	996.1
47.5°	5001.1	4858.8	2954.8	1434.7	1235.5	1220.9	1161.1	1072.8	967.7	898.4	892.5
50°	6128.6	5754.2	2924.9	1255.2	1120.2	1124.6	1075.7	982.2	883.0	832.0	826.1
52.5°	7477.2	6797.0	2982.5	1116.6	1027.5	1042.9	1006.4	918.8	835.6	795.4	789.6
55°	8876.1	7877.1	3044.6	1015.9	939.9	969.8	957.4	885.2	810.1	772.8	767.7
57.5°	10073.7	8683.4	2920.5	934.1	861.9	908.5	919.5	864.0	796.9	763.3	757.5
60°	10827.5	9008.2	2595.0	857.5	799.8	859.6	897.6	858.2	802.0	799.1	794.7
62.5°	11185.1	8979.7	2106.8	796.9	761.2	838.5	913.7	891.0	860.4	886.6	888.9
65°	11024.5	8550.7	1569.0	756.8	733.4	846.5	961.8	953.1	877.1	903.4	907.1
67.5°	9967.8	7526.8	1161.8	721.8	702.8	869.1	1049.4	973.5	844.4	863.3	851.6
70°	8056.6	5967.3	896.1	682.4	671.4	866.2	1088.8	961.1	808.6	813.0	781.6
72.5°	5555.7	4069.2	729.0	645.8	626.1	789.6	1061.0	930.4	778.7	745.1	703.5
75°	3021.2	2184.2	619.6	607.9	546.6	693.3	1010.0	908.5	751.7	707.1	683.8
77.5°	1188.7	906.4	537.9	556.0	478.0	612.3	953.1	867.0	714.4	656.1	644.4
80°	485.3	462.7	445.8	481.0	410.8	535.6	884.5	818.1	669.9	608.6	585.3
82.5°	275.1	287.6	346.6	379.5	333.5	493.3	851.6	778.7	616.7	545.1	517.4
85°	140.8	168.6	241.6	272.2	245.2	419.6	784.5	681.6	494.7	417.4	419.6
87.5°	67.9	94.2	152.5	170.8	159.1	303.6	586.0	494.1	385.3	305.1	295.6
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)