

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: P383045

Luminaire Tested: **GLEON-SA3D-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383045
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-SA3D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21911.9 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

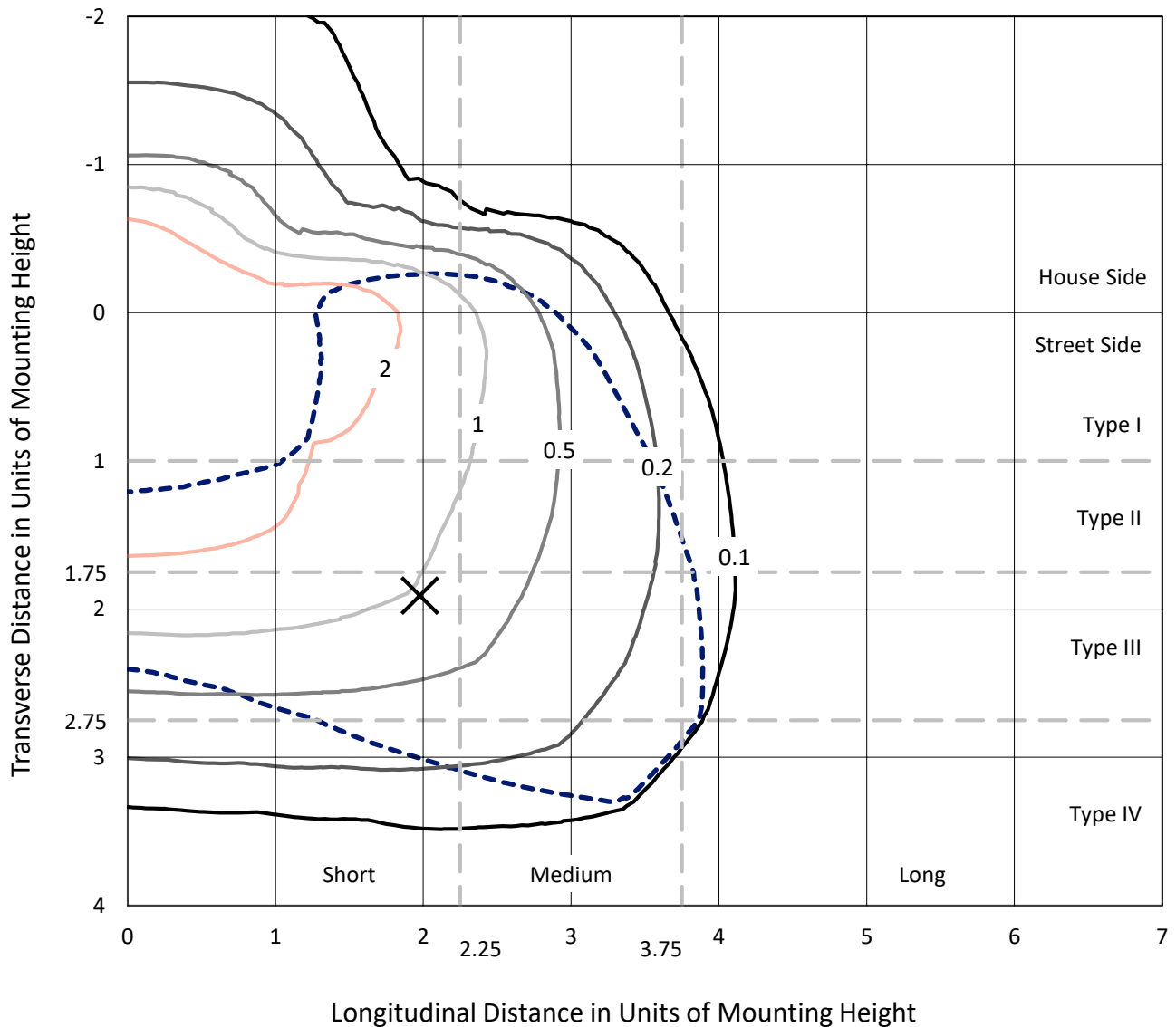
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

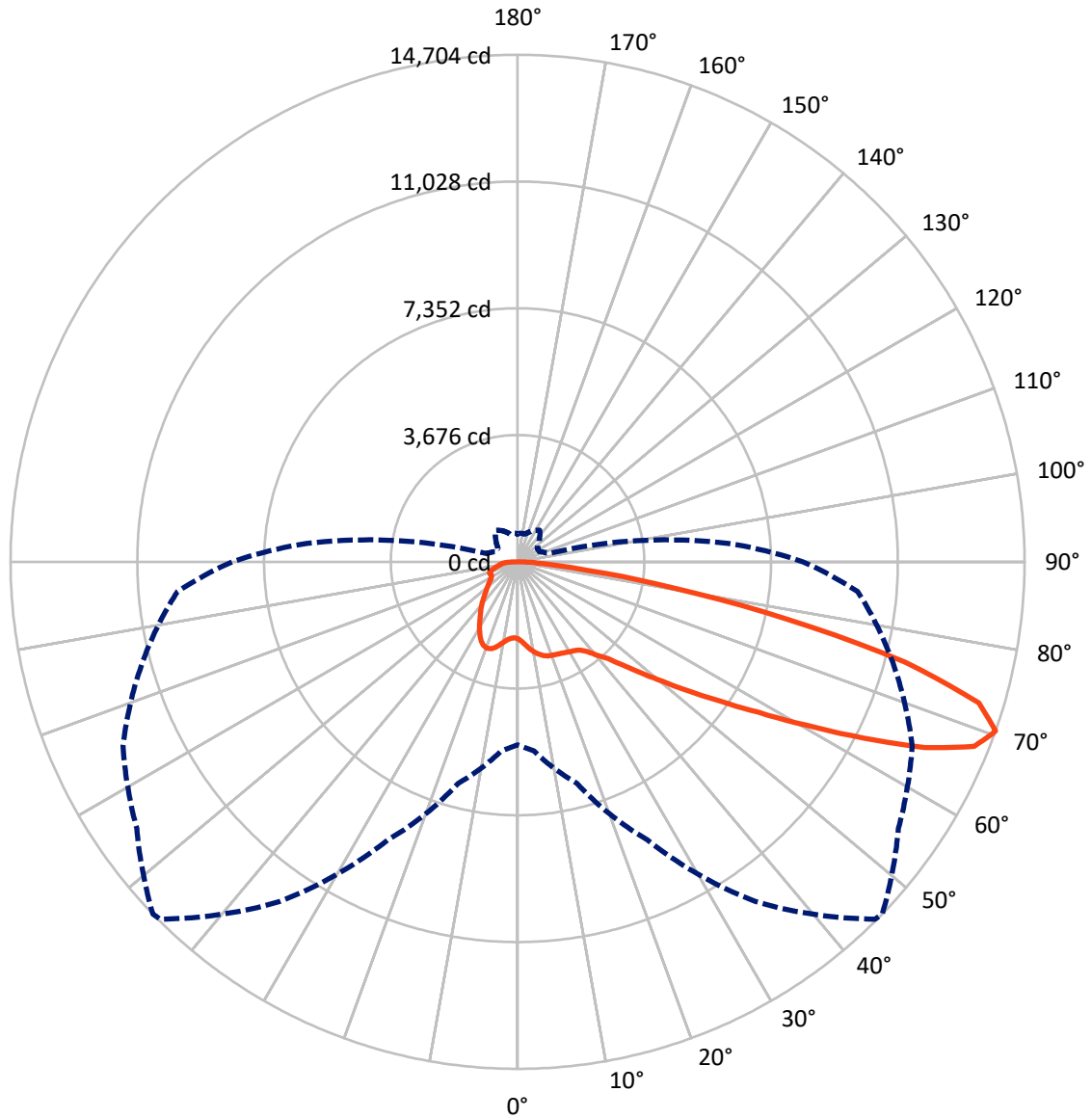
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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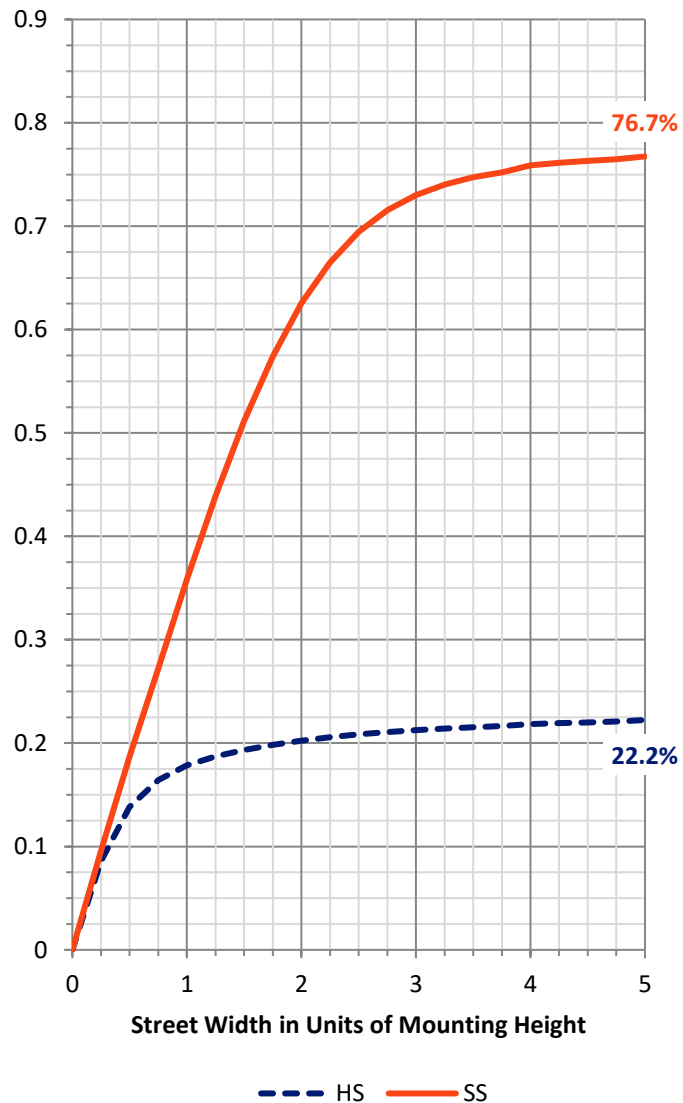
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5022.1	0.0	5022.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16889.7	0.0	16889.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	21911.9	0.0	21911.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	1.0
10°-20°	758.2	3.5
20°-30°	1264.2	5.8
30°-40°	1794.0	8.2
40°-50°	2638.9	12.0
50°-60°	4469.0	20.4
60°-70°	6343.7	29.0
70°-80°	3853.8	17.6
80°-90°	562.4	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°	21911.9	100.0
0°-180°	21911.9	100.0

Coefficient of Utilization



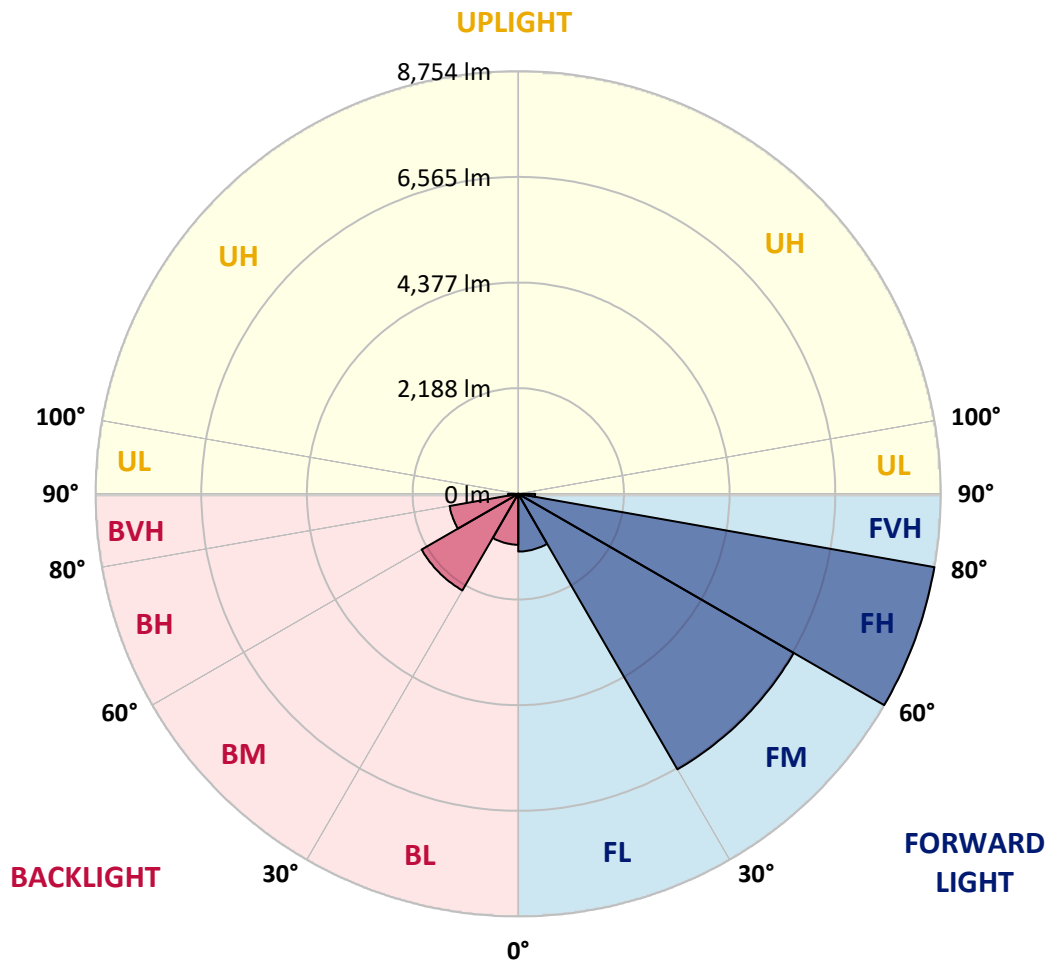
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1195.6	5.5			
FM (30°-60°)	6590.1	30.1			
FH (60°-80°)	8753.7	39.9			G4/12000
FVH (80°-90°)	350.3	1.6			G3/500
BL (0°-30°)	1054.4	4.8	B3/2500		
BM (30°-60°)	2311.8	10.6	B2/2500		
BH (60°-80°)	1443.8	6.6	B3/2500		G3/2500
BVH (80°-90°)	212.1	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°	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4
2.5°	2344.1	2345.6	2348.6	2341.2	2320.1	2314.2	2311.9	2290.1	2275.9	2254.9	2236.9
5°	2531.6	2533.1	2528.6	2507.6	2461.1	2426.6	2423.6	2374.1	2329.1	2281.2	2245.1
7.5°	2727.3	2729.5	2715.3	2675.6	2610.3	2550.3	2546.6	2479.1	2410.8	2338.1	2284.2
10°	2900.6	2891.5	2868.3	2812.8	2735.6	2662.1	2659.1	2588.6	2509.9	2422.1	2350.1
12.5°	3016.0	3008.5	2978.5	2911.0	2826.3	2758.8	2752.8	2687.6	2611.0	2515.1	2428.8
15°	3079.8	3085.0	3044.5	2968.0	2885.6	2828.6	2823.3	2776.8	2708.6	2611.9	2512.8
17.5°	3088.0	3092.5	3053.5	2977.8	2910.2	2871.3	2869.1	2838.3	2788.8	2695.8	2592.3
20°	3040.0	3043.0	3010.8	2948.5	2904.3	2892.3	2891.5	2878.0	2841.3	2758.8	2658.4
22.5°	2970.2	2972.5	2949.3	2904.3	2889.3	2908.0	2913.3	2908.0	2881.7	2804.5	2710.1
25°	2953.0	2951.5	2927.5	2881.7	2894.5	2934.3	2941.0	2943.3	2925.2	2857.8	2776.0
27.5°	3036.3	3031.0	2985.2	2911.7	2920.0	2968.0	2977.0	2998.7	2987.5	2928.3	2851.0
30°	3277.0	3268.0	3174.2	3025.8	2985.2	3010.0	3021.3	3055.8	3058.0	3008.5	2950.8
32.5°	3683.4	3672.2	3504.2	3238.7	3095.5	3052.8	3063.3	3115.0	3142.8	3104.5	3042.2
35°	4197.1	4184.3	3963.8	3600.9	3280.0	3134.5	3142.0	3183.2	3238.7	3184.8	3102.2
37.5°	4732.4	4701.7	4489.5	4026.9	3573.1	3309.2	3309.2	3314.4	3340.7	3228.2	3172.8
40°	5264.9	5234.2	5042.2	4527.8	3952.6	3584.4	3567.2	3450.9	3430.0	3333.2	3314.4
42.5°	5759.9	5750.8	5637.6	5093.9	4398.0	3855.1	3831.2	3633.9	3638.4	3578.4	3579.2
45°	6286.3	6286.3	6194.0	5665.3	4917.0	4290.1	4266.0	3975.8	4020.8	3993.1	4059.9
47.5°	6715.9	6729.4	6716.6	6260.7	5520.6	4842.7	4799.2	4449.8	4575.8	4671.0	4865.2
50°	7154.6	7175.6	7177.9	6913.9	6250.2	5499.6	5450.1	5078.9	5360.1	5633.1	6014.8
52.5°	7791.3	7838.5	7650.2	7565.6	7144.1	6279.5	6230.7	5888.0	6357.4	6740.7	7398.4
55°	8381.4	8340.1	8205.9	8258.4	8100.9	7167.3	7130.6	6829.9	7468.8	7966.7	8820.8
57.5°	8700.8	8697.9	8832.8	9057.8	9132.8	8262.2	8231.4	7938.9	8721.8	9096.0	10156.4
60°	9075.8	9081.0	9415.5	9926.1	10235.1	9625.4	9612.0	9390.0	9938.9	10150.3	11203.9
62.5°	9128.2	9222.8	9798.7	10677.5	11267.0	11218.2	11248.2	10697.1	11027.8	10991.7	11986.0
65°	8524.6	8649.1	9691.4	10904.7	12292.8	12960.2	12987.9	12011.6	11886.4	11710.9	12265.8
67.5°	7287.3	7471.8	8604.1	10410.6	12630.9	14247.7	14286.7	13030.7	12598.7	11954.6	11592.4
70°	5303.1	5507.9	6647.7	8891.3	12028.0	14659.4	14703.6	13481.4	12625.7	11260.9	9896.1
72.5°	3203.5	3363.9	4303.6	6545.7	10151.8	13909.5	13988.2	12909.9	11527.2	9538.5	7307.5
75°	1406.7	1511.7	2080.9	3771.9	7267.8	11508.4	11606.6	11050.2	9366.0	6931.9	4319.3
77.5°	599.2	629.2	853.4	1638.5	4108.6	7863.9	7998.9	8073.9	6354.5	3771.9	1825.2
80°	373.5	385.5	482.9	741.6	1922.7	4416.7	4562.3	4750.5	3155.5	1386.5	637.4
82.5°	227.2	240.7	320.9	448.4	1001.1	2002.2	2071.9	2204.6	1224.5	599.2	330.0
85°	136.5	146.3	196.5	283.5	569.9	787.3	786.6	869.9	576.6	385.5	174.0
87.5°	65.2	72.8	105.0	147.0	287.2	295.5	276.7	313.5	350.2	252.7	87.8
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°	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4	2232.4
2.5°	2230.9	2227.9	2218.1	2210.7	2209.2	2204.6	2200.9	2203.1	2206.2	2206.9	2206.9
5°	2230.1	2221.9	2209.2	2203.9	2210.7	2219.6	2230.9	2245.9	2254.9	2261.6	2266.2
7.5°	2266.2	2250.4	2236.2	2233.1	2246.6	2270.6	2296.2	2327.7	2349.4	2364.4	2367.3
10°	2326.2	2306.6	2292.4	2295.3	2319.4	2353.8	2389.9	2430.3	2463.4	2483.6	2485.1
12.5°	2395.1	2376.4	2362.9	2375.6	2415.3	2457.3	2494.9	2530.1	2560.1	2580.3	2580.3
15°	2474.6	2461.1	2445.3	2474.6	2528.6	2566.0	2581.9	2599.1	2615.6	2630.6	2627.6
17.5°	2551.0	2538.4	2530.1	2564.6	2620.8	2638.0	2627.6	2614.9	2614.9	2623.1	2624.5
20°	2617.1	2605.8	2611.0	2644.8	2674.1	2656.0	2617.1	2576.6	2560.1	2564.6	2569.1
22.5°	2674.8	2669.5	2685.3	2701.0	2680.1	2617.1	2545.1	2490.3	2470.1	2468.6	2470.1
25°	2742.3	2741.5	2761.0	2732.6	2639.5	2523.4	2426.6	2373.4	2362.1	2371.2	2386.2
27.5°	2826.3	2834.5	2844.3	2740.1	2557.1	2381.6	2283.4	2246.6	2257.9	2279.6	2293.8
30°	2933.5	2956.0	2935.0	2721.3	2438.6	2219.6	2125.9	2115.5	2146.2	2176.9	2191.9
32.5°	3037.8	3073.0	3022.0	2672.6	2285.6	2047.9	1975.2	1972.2	2009.7	2039.7	2060.7
35°	3121.7	3191.5	3087.2	2575.8	2108.7	1889.7	1836.5	1816.2	1829.7	1865.0	1888.9
37.5°	3231.3	3347.4	3132.2	2428.1	1916.7	1759.2	1697.0	1650.5	1638.5	1652.8	1664.8
40°	3431.4	3585.2	3153.2	2221.9	1729.2	1628.7	1565.7	1497.5	1450.2	1415.8	1416.5
42.5°	3758.4	3894.9	3139.8	1971.4	1556.0	1501.3	1430.0	1351.3	1274.8	1196.9	1190.8
45°	4289.3	4355.3	3099.3	1705.9	1403.7	1367.8	1301.0	1222.3	1120.3	1031.9	1023.6
47.5°	5138.9	4992.7	3036.3	1474.3	1269.5	1254.5	1193.0	1102.3	994.3	923.1	917.1
50°	6297.4	5912.8	3005.5	1289.8	1151.0	1155.6	1105.3	1009.3	907.3	854.9	848.8
52.5°	7683.2	6984.4	3064.8	1147.3	1055.8	1071.6	1034.1	944.1	858.6	817.3	811.4
55°	9120.8	8094.2	3128.5	1043.8	965.8	996.6	983.8	909.6	832.3	794.1	788.8
57.5°	10351.4	8922.8	3001.0	959.9	885.6	933.6	944.9	887.9	818.8	784.4	778.4
60°	11125.9	9256.5	2666.6	881.2	821.9	883.4	922.3	881.9	824.1	821.2	816.6
62.5°	11493.4	9227.3	2164.9	818.8	782.1	861.6	938.8	915.6	884.1	911.1	913.4
65°	11328.5	8786.4	1612.2	777.7	753.6	869.9	988.4	979.3	901.4	928.4	932.1
67.5°	10242.6	7734.3	1193.8	741.6	722.1	893.1	1078.4	1000.3	867.6	887.1	875.1
70°	8278.7	6131.7	920.8	701.2	689.9	890.1	1118.8	987.6	830.8	835.3	803.1
72.5°	5708.8	4181.3	749.2	663.6	643.4	811.4	1090.3	956.1	800.1	765.6	722.9
75°	3104.5	2244.4	636.6	624.7	561.6	712.4	1037.8	933.6	772.3	726.6	702.7
77.5°	1221.5	931.4	552.7	571.4	491.2	629.2	979.3	890.8	734.2	674.2	662.1
80°	498.7	475.5	458.1	494.2	422.2	550.5	908.8	840.6	688.4	625.4	601.4
82.5°	282.7	295.5	356.2	389.9	342.7	506.9	875.1	800.1	633.6	560.1	531.6
85°	144.8	173.3	248.2	279.7	252.0	431.2	806.2	700.4	508.4	428.9	431.2
87.5°	69.8	96.7	156.7	175.5	163.5	312.0	602.2	507.7	395.9	313.5	303.7
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)