

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: P382885

Luminaire Tested: **GLEON-SA2C-735-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13207.5 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

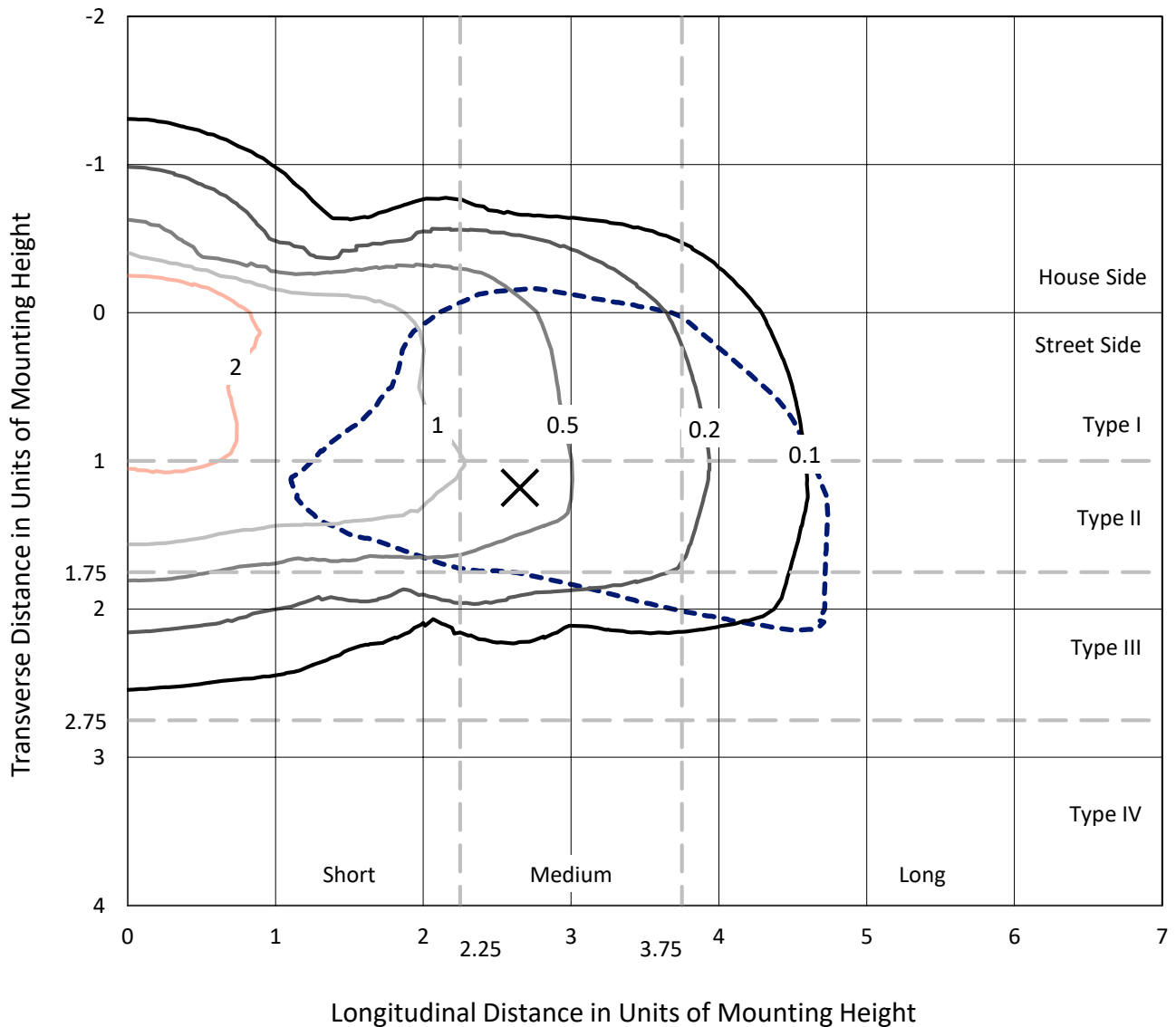
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

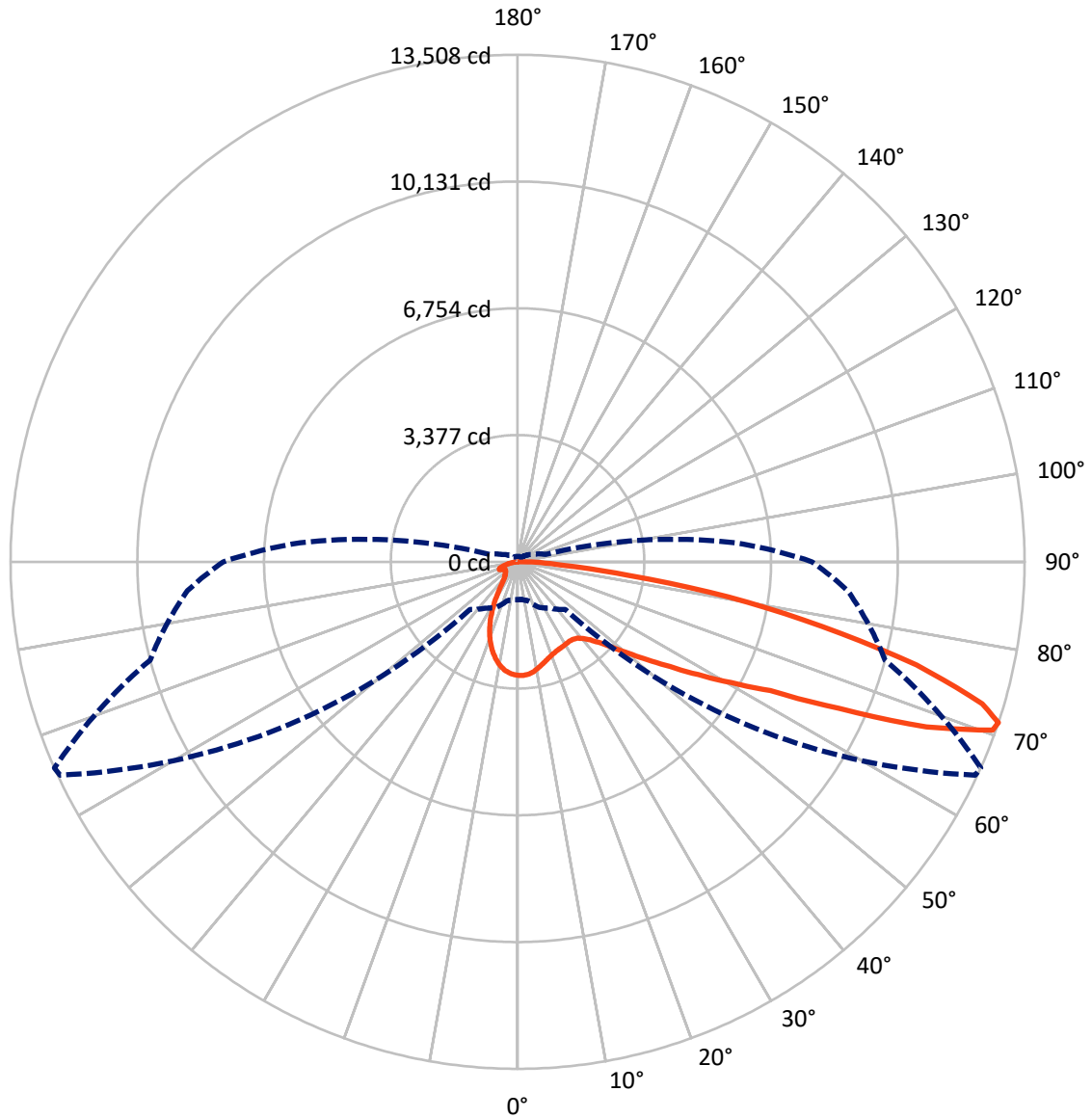
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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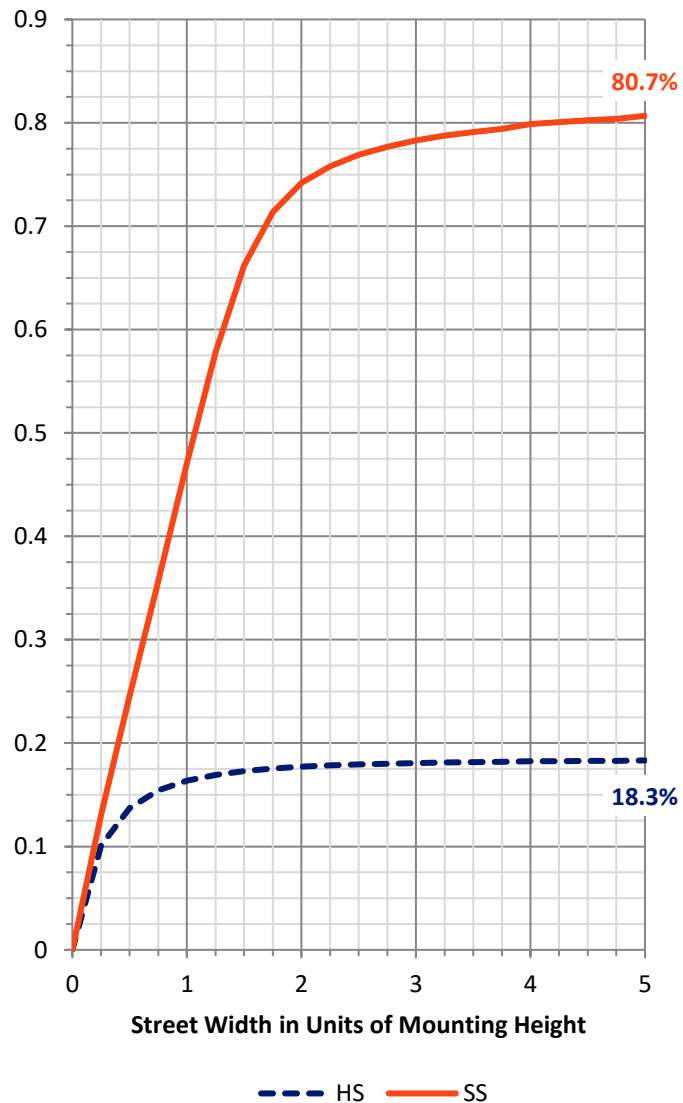
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.7	0.0	2447.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	10759.8	0.0	10759.8
	% Fixture	81.5	0.0	81.5
Total	Lumens	13207.5	0.0	13207.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.3	2.0
10°-20°	638.8	4.8
20°-30°	858.0	6.5
30°-40°	1128.7	8.5
40°-50°	1642.0	12.4
50°-60°	2564.9	19.4
60°-70°	3213.0	24.3
70°-80°	2450.8	18.6
80°-90°	445.0	3.4
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°	13207.5	100.0
0°-180°	13207.5	100.0

Coefficient of Utilization



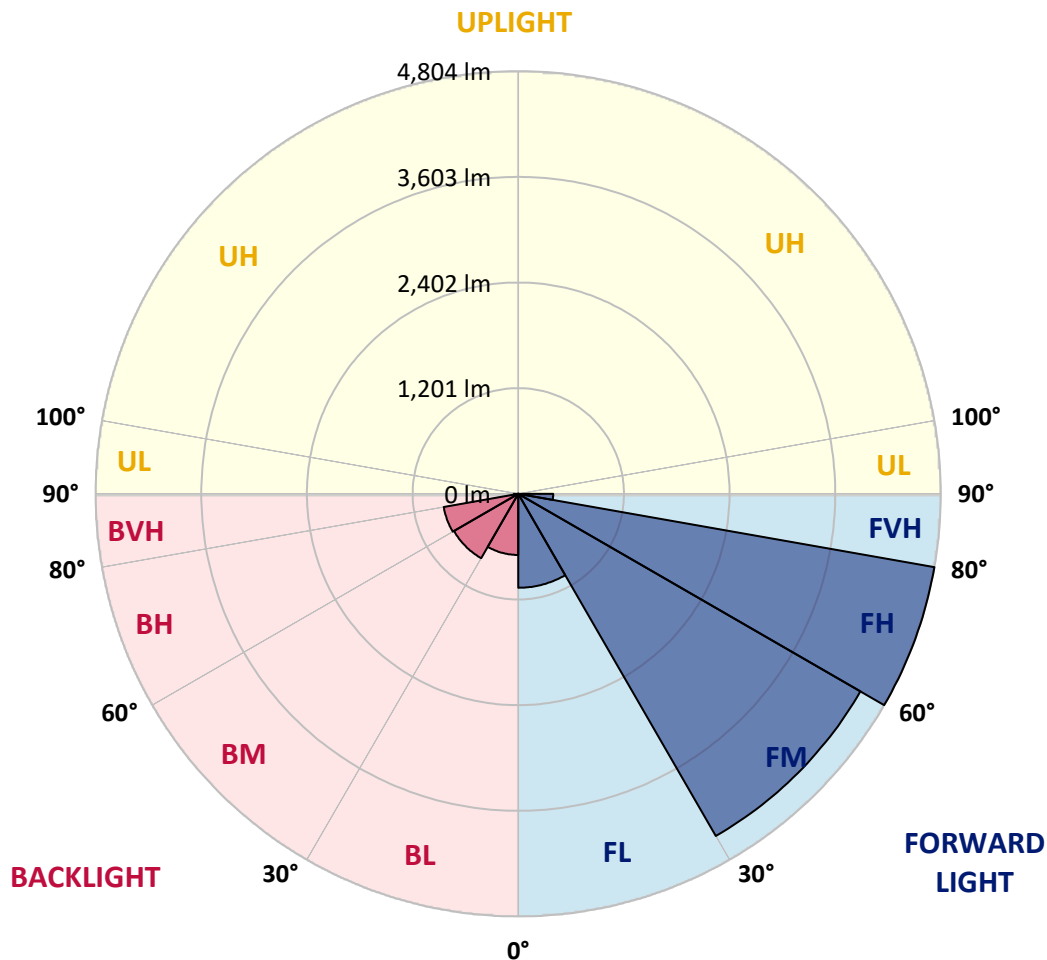
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.0	8.1			
FM (30°-60°)	4491.2	34.0			
FH (60°-80°)	4803.7	36.4			G2/5000
FVH (80°-90°)	396.9	3.0			G3/500
BL (0°-30°)	695.1	5.3	B2/1000		
BM (30°-60°)	844.4	6.4	B1/1000		
BH (60°-80°)	860.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	48.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6
2.5°	2969.5	2964.9	2978.6	2992.8	2998.2	3007.3	3021.0	3028.7	3028.3	3029.7	3025.1
5°	2772.5	2766.6	2793.9	2816.3	2859.1	2907.5	2966.3	3008.2	3009.2	3032.8	3039.3
7.5°	2586.0	2581.9	2613.4	2649.4	2699.1	2772.9	2868.2	2958.5	2964.0	3028.3	3050.6
10°	2436.5	2435.5	2466.1	2505.3	2563.2	2645.7	2755.1	2887.4	2895.6	3006.4	3052.5
12.5°	2319.6	2321.5	2348.0	2392.7	2453.8	2540.0	2658.5	2807.6	2820.8	2971.7	3042.0
15°	2233.5	2240.8	2262.3	2307.4	2367.5	2455.1	2576.8	2733.7	2753.8	2933.0	3036.1
17.5°	2184.3	2192.5	2207.5	2244.9	2301.5	2385.8	2501.2	2673.1	2691.3	2903.4	3036.6
20°	2169.7	2176.5	2185.1	2208.0	2255.8	2332.4	2441.4	2618.4	2638.0	2879.7	3041.0
22.5°	2198.4	2203.4	2204.3	2202.5	2231.7	2294.1	2398.1	2578.2	2599.2	2864.1	3044.3
25°	2259.9	2266.8	2261.8	2244.9	2235.3	2273.6	2375.8	2551.8	2572.7	2852.8	3037.9
27.5°	2352.5	2353.5	2349.4	2327.5	2282.3	2275.9	2368.9	2536.3	2556.4	2839.5	3024.6
30°	2478.4	2484.3	2477.0	2447.4	2373.5	2312.4	2377.1	2521.2	2539.5	2822.7	3003.2
32.5°	2625.7	2640.3	2639.8	2608.8	2503.0	2394.0	2410.8	2512.1	2526.3	2804.9	2977.2
35°	2778.4	2798.5	2835.9	2822.7	2691.8	2523.1	2475.7	2526.7	2536.3	2802.6	2959.0
37.5°	2937.1	2957.2	3034.2	3069.8	2916.6	2707.7	2577.8	2578.2	2582.8	2830.4	2957.7
40°	3103.1	3124.5	3240.4	3332.9	3208.0	2941.6	2742.4	2685.8	2680.8	2898.8	2984.5
42.5°	3335.7	3354.8	3493.9	3612.0	3531.3	3241.2	2970.0	2851.8	2841.3	3032.8	3070.8
45°	3629.8	3646.2	3793.9	3920.2	3878.8	3583.3	3255.9	3080.3	3078.5	3256.3	3245.3
47.5°	3979.6	3992.3	4125.0	4247.2	4262.3	3976.8	3615.1	3432.8	3403.1	3562.7	3515.8
50°	4343.9	4358.1	4448.3	4579.7	4691.4	4503.5	4077.6	3864.6	3824.9	3967.2	3898.8
52.5°	4585.1	4603.8	4682.2	4848.7	5173.8	5080.8	4624.3	4388.1	4327.9	4457.5	4405.0
55°	4477.5	4519.4	4639.4	4906.1	5559.6	5962.6	5298.7	4998.7	4930.8	5038.4	5007.3
57.5°	3988.2	4045.6	4209.4	4621.1	5613.9	6739.7	6318.4	5717.8	5670.0	5638.9	5653.1
60°	3093.9	3149.2	3352.1	3888.7	5235.9	7307.0	7852.9	6604.3	6535.0	6241.7	6254.5
62.5°	2189.7	2161.9	2301.0	2693.6	4254.5	7373.6	9598.9	7789.9	7561.9	6878.4	6822.3
65°	1669.9	1663.5	1726.0	1850.9	2576.8	6576.9	10639.0	9782.6	9426.5	7627.1	7494.9
67.5°	1372.1	1360.7	1422.3	1604.2	1659.4	4243.1	10661.8	12094.6	11744.8	8559.2	8272.8
70°	1128.2	1115.3	1172.8	1407.7	1533.5	2151.9	8973.2	13448.5	13429.7	9739.3	8860.1
71°	1011.4	1002.3	1071.2	1332.0	1506.6	1793.4	7747.5	13452.1	13508.2	10138.8	8825.5
72.5°	823.6	826.7	899.7	1185.6	1486.6	1583.7	5694.1	12825.1	12943.7	10519.5	8510.3
75°	547.2	550.0	645.7	912.0	1441.4	1549.5	3129.5	10761.7	10979.6	10291.6	7765.8
77.5°	367.5	366.7	431.9	625.6	1255.8	1549.5	1835.0	8048.9	8288.4	8188.9	5986.9
80°	253.1	251.2	297.3	431.9	950.7	1568.2	1418.7	5640.8	5713.3	4422.3	2433.2
82.5°	155.0	156.4	194.2	305.1	647.1	1411.3	1339.3	3075.8	2996.9	1240.4	607.8
85°	89.0	88.5	124.0	206.5	415.4	1191.1	1306.0	1323.8	1214.4	373.5	219.8
87.5°	32.0	34.2	66.6	114.5	238.0	829.4	1108.1	688.6	620.6	168.7	99.4
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°	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6	3025.6
2.5°	3021.9	3024.6	3021.5	3003.2	2987.8	2962.7	2948.5	2928.9	2923.0	2920.2	2927.6
5°	3033.3	3034.2	3007.3	2959.4	2905.7	2842.2	2796.7	2740.6	2714.2	2702.7	2710.1
7.5°	3043.8	3039.7	2980.9	2889.2	2789.8	2679.5	2581.4	2491.6	2439.2	2417.7	2419.5
10°	3045.2	3027.9	2933.4	2791.7	2637.5	2475.7	2325.1	2186.5	2099.0	2042.0	2059.3
12.5°	3031.1	3001.9	2863.7	2665.3	2451.5	2230.8	2027.4	1819.4	1694.5	1636.6	1638.4
15°	3020.1	2967.2	2778.0	2516.7	2229.4	1937.1	1659.4	1415.0	1281.8	1222.6	1194.7
17.5°	3010.9	2929.8	2678.6	2349.4	1967.2	1596.5	1262.7	1044.7	971.7	954.4	947.1
20°	2998.2	2890.1	2567.7	2155.5	1668.5	1215.2	922.0	814.5	814.9	834.9	837.6
22.5°	2980.4	2845.0	2449.7	1938.0	1347.9	885.1	722.8	691.8	723.3	761.5	768.3
25°	2954.0	2791.7	2318.3	1697.7	1027.9	680.4	617.4	616.0	654.3	694.5	700.4
27.5°	2916.6	2721.9	2172.4	1439.6	757.4	578.2	553.2	562.7	591.0	620.1	622.5
30°	2866.5	2640.8	2011.4	1167.3	593.7	514.9	512.1	520.7	538.1	558.6	560.4
32.5°	2811.2	2558.2	1839.5	903.8	508.4	480.6	483.4	487.5	495.7	503.9	505.7
35°	2761.1	2473.8	1663.5	686.7	467.8	458.3	456.5	455.5	456.5	453.8	454.2
37.5°	2728.7	2404.0	1480.2	546.7	444.6	438.7	433.2	426.4	418.6	414.1	415.0
40°	2716.9	2352.1	1294.6	472.4	425.4	421.3	410.8	396.3	387.2	384.4	384.4
42.5°	2748.8	2325.1	1115.3	435.0	409.5	402.6	385.3	368.4	361.6	361.2	360.7
45°	2846.3	2336.1	944.9	414.5	394.9	381.7	358.8	344.8	340.2	341.1	340.7
47.5°	3021.5	2405.0	798.9	400.8	380.4	363.0	337.4	326.0	320.5	320.5	321.0
50°	3319.3	2565.9	682.6	389.4	368.0	345.6	321.9	307.8	300.5	300.1	300.1
52.5°	3752.9	2854.1	610.2	379.9	354.4	330.1	306.5	288.7	280.0	278.2	277.2
55°	4296.5	3267.2	590.0	373.5	336.1	313.3	287.8	270.0	260.4	256.3	255.8
57.5°	4904.3	3769.8	629.7	365.7	317.4	293.3	267.3	250.3	240.3	235.3	234.8
60°	5519.4	4318.4	791.6	354.7	301.9	271.4	246.2	230.7	220.7	215.2	214.3
62.5°	6135.5	4896.6	1122.2	353.9	290.9	250.3	224.8	211.6	202.1	196.1	194.7
65°	6830.5	5529.5	1497.9	378.0	287.3	231.2	202.9	192.5	184.3	178.8	178.3
67.5°	7628.4	6244.1	1462.0	427.8	299.6	213.9	182.4	174.2	168.2	163.7	163.2
70°	8002.8	6132.3	908.8	462.9	316.9	197.0	162.8	156.9	152.3	149.1	147.7
71°	7846.0	5822.7	762.0	458.7	315.1	189.7	155.0	150.4	145.9	143.2	141.8
72.5°	7418.3	5310.2	635.7	426.8	294.6	176.4	145.0	140.5	136.4	133.1	132.3
75°	6656.7	4742.4	508.9	341.1	234.8	149.1	127.2	122.2	119.1	117.2	115.3
77.5°	4893.3	3384.5	393.5	269.5	172.8	121.8	108.5	104.9	101.7	98.9	97.6
80°	1874.6	1311.0	264.9	201.1	126.8	96.2	87.6	85.7	82.5	80.7	80.7
82.5°	504.8	391.7	141.3	121.8	84.8	70.2	67.1	66.1	63.3	59.7	60.2
85°	204.3	172.8	79.4	67.1	52.0	41.5	45.2	45.6	42.4	37.8	38.3
87.5°	89.8	73.4	44.2	29.6	22.8	15.9	20.5	20.5	18.7	15.5	14.2
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)