

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: P527244

Luminaire Tested: **GALN-SA2B-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8833 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

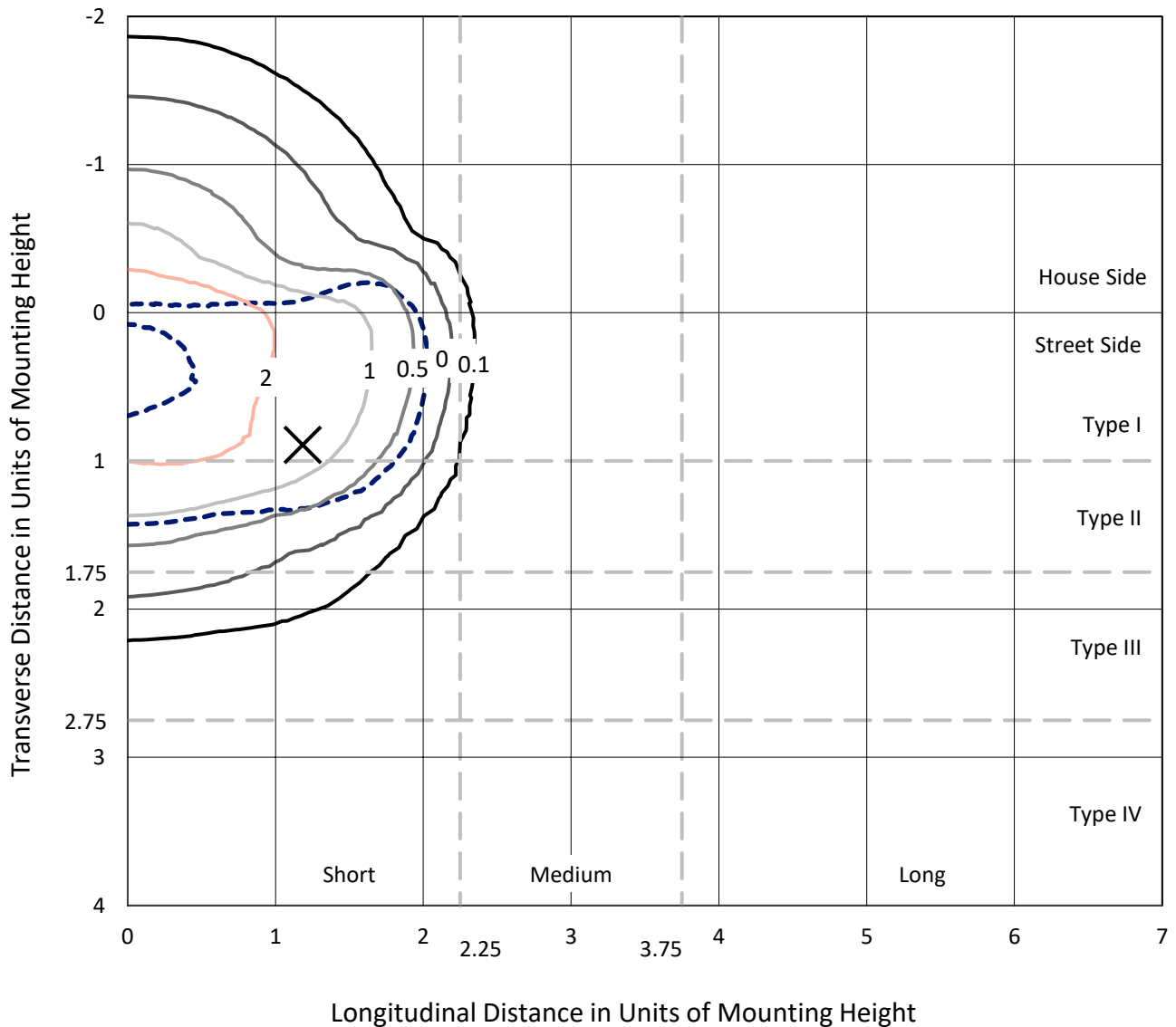
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

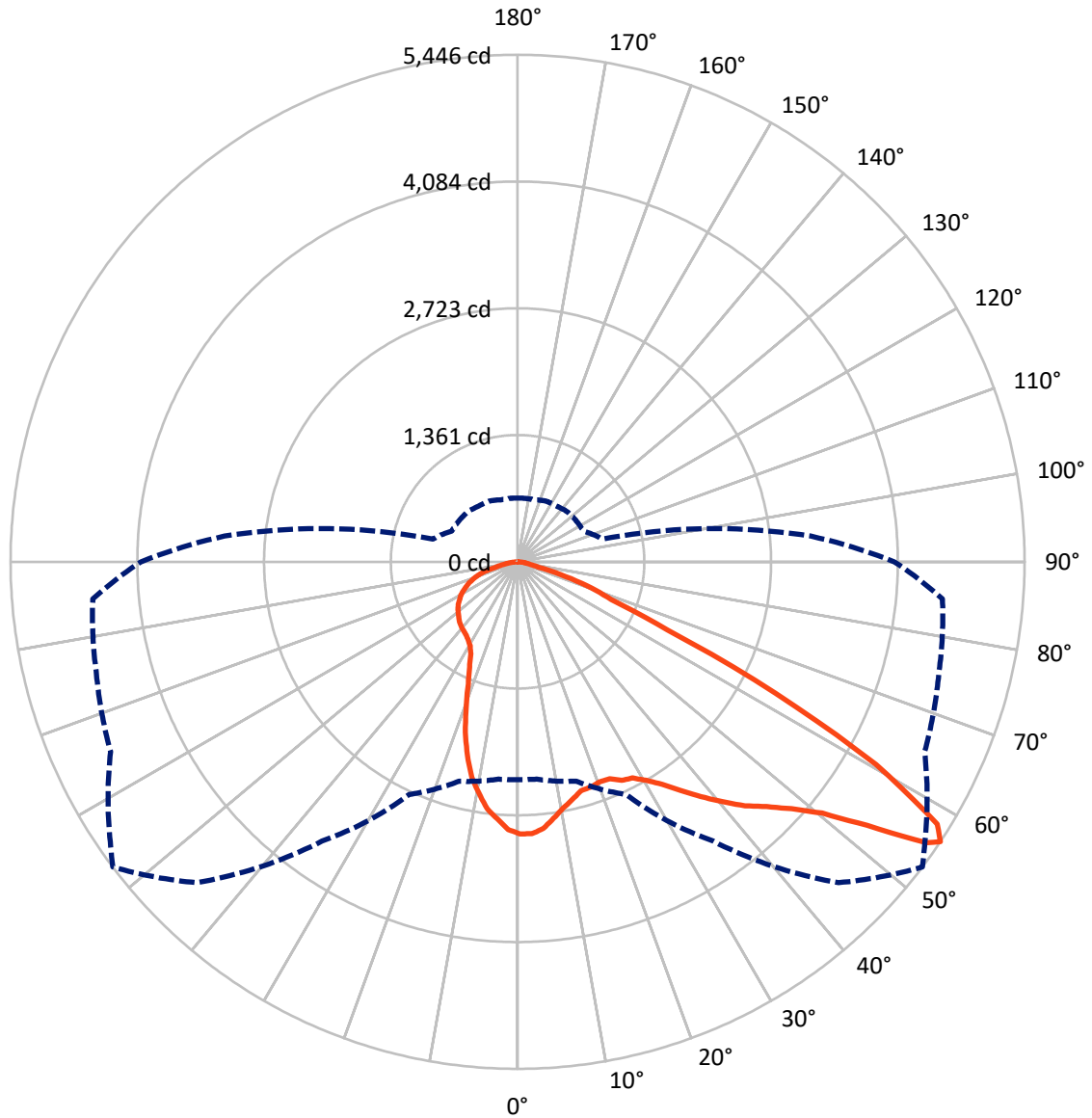
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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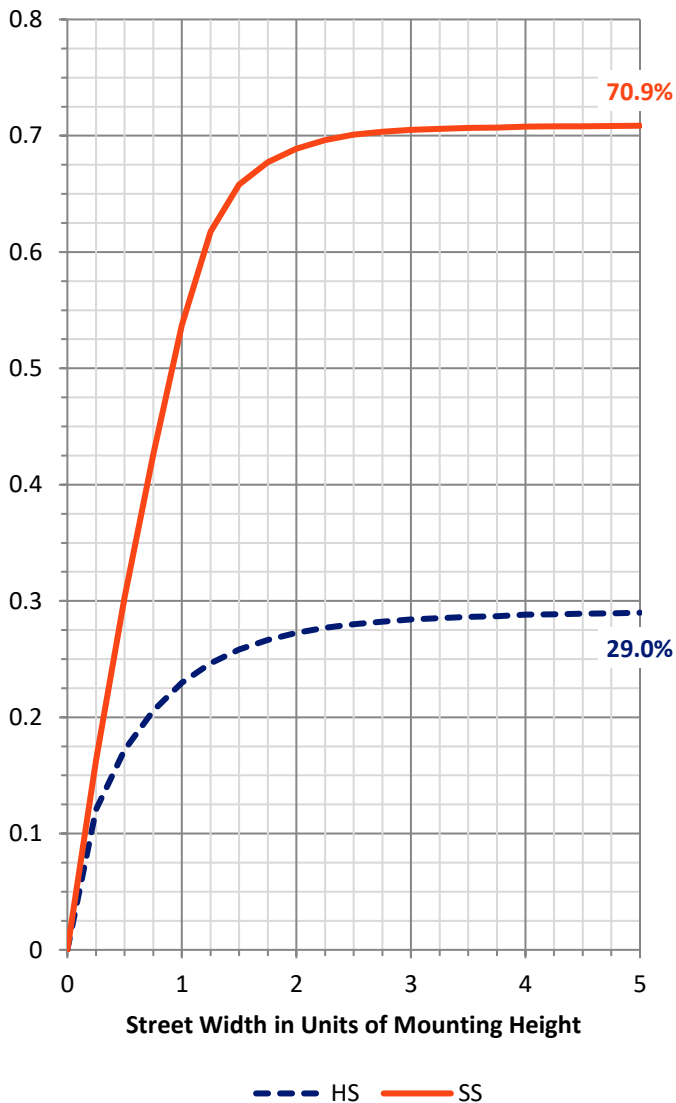
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2577.7	0.0	2577.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	6255.3	0.0	6255.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	8833.0	0.0	8833.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.7	2.9
10°-20°	646.1	7.3
20°-30°	952.8	10.8
30°-40°	1361.4	15.4
40°-50°	1873.7	21.2
50°-60°	2214.2	25.1
60°-70°	1180.0	13.4
70°-80°	299.4	3.4
80°-90°	46.7	0.5
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°	8833.0	100.0
0°-180°	8833.0	100.0

Coefficient of Utilization



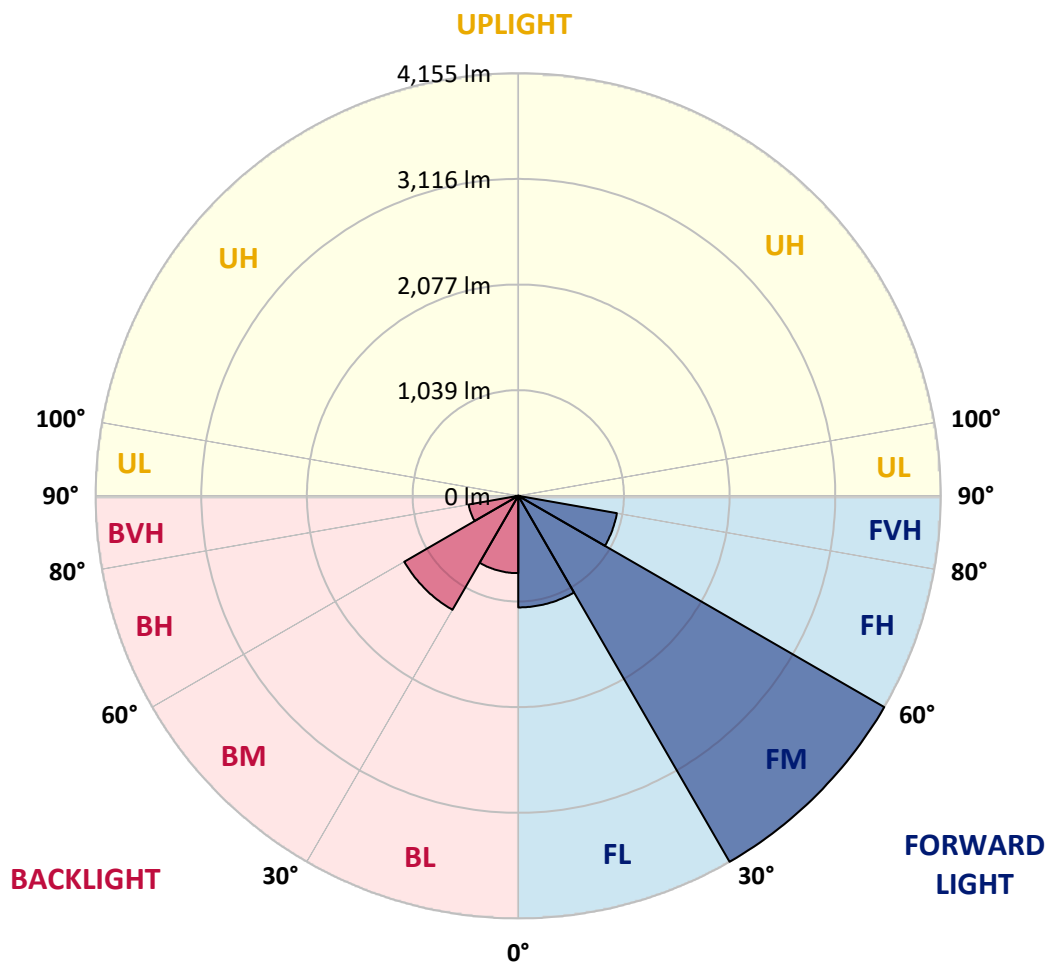
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1097.4	12.4			
FM (30°-60°)	4154.9	47.0			
FH (60°-80°)	984.3	11.1			G1/1800
FVH (80°-90°)	18.8	0.2			G1/100
BL (0°-30°)	760.3	8.6	B2/1000		
BM (30°-60°)	1294.4	14.7	B2/2500		
BH (60°-80°)	495.1	5.6	B1/500		G1/500
BVH (80°-90°)	27.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3
2.5°	2886.0	2861.1	2875.8	2870.2	2916.6	2930.2	2923.4	2929.1	2955.2	2942.7	2916.6
5°	2696.8	2731.9	2738.7	2755.7	2782.9	2836.2	2878.1	2889.4	2901.9	2959.7	2954.0
7.5°	2524.6	2548.4	2535.9	2585.8	2644.7	2730.8	2781.8	2790.9	2905.3	2937.0	2960.8
10°	2415.8	2392.0	2448.7	2462.3	2529.1	2627.7	2688.9	2726.3	2830.5	2956.3	2971.0
12.5°	2315.0	2307.0	2341.0	2379.5	2454.3	2556.3	2618.6	2633.4	2794.3	2926.8	2996.0
15°	2240.2	2231.1	2265.1	2293.4	2380.7	2471.3	2550.6	2592.6	2754.6	2909.8	2974.4
17.5°	2181.2	2180.1	2199.4	2250.4	2339.9	2415.8	2543.8	2546.1	2734.2	2935.9	2992.6
20°	2177.8	2176.7	2180.1	2236.8	2318.4	2411.3	2522.3	2542.7	2734.2	2917.8	2993.7
22.5°	2206.2	2188.0	2208.4	2244.7	2303.6	2419.2	2530.2	2575.6	2799.9	3007.3	3044.7
25°	2251.5	2256.0	2267.4	2279.8	2313.8	2437.3	2600.5	2637.9	2877.0	3084.3	3114.9
27.5°	2334.2	2332.0	2336.5	2343.3	2372.7	2454.3	2628.8	2725.1	3037.9	3221.4	3190.9
30°	2455.5	2447.5	2465.7	2489.5	2462.3	2508.7	2722.9	2795.4	3187.5	3359.7	3275.8
32.5°	2565.4	2594.8	2628.8	2639.0	2606.2	2615.2	2847.5	2921.2	3312.1	3529.7	3380.1
35°	2702.5	2726.3	2771.6	2803.3	2797.7	2770.5	3017.5	3114.9	3492.3	3654.3	3490.0
37.5°	2836.2	2864.5	2939.3	3033.3	2981.2	2968.8	3198.8	3279.2	3547.8	3721.2	3570.4
40°	3051.5	3050.3	3179.5	3228.2	3274.7	3253.2	3386.9	3414.1	3577.2	3706.4	3572.7
42.5°	3304.2	3288.3	3419.7	3495.7	3555.7	3558.0	3582.9	3573.8	3590.8	3631.6	3548.9
45°	3544.4	3578.4	3711.0	3846.9	3907.0	3913.8	3748.3	3731.3	3614.6	3610.1	3503.6
47.5°	3837.9	3845.8	3954.6	4133.6	4273.0	4225.4	3962.5	3925.1	3718.9	3754.0	3579.5
50°	3854.9	3913.8	4011.2	4222.0	4650.3	4637.8	4240.1	4169.9	3886.6	3958.0	3791.4
52.5°	3499.1	3485.5	3601.0	3945.5	4622.0	5048.0	4700.2	4532.5	4246.9	4192.5	4134.7
55°	2666.2	2697.9	2799.9	3147.8	4013.5	5053.7	5326.8	5189.7	4632.2	4539.3	4472.4
56°	2338.8	2343.3	2439.6	2756.9	3662.2	4873.5	5445.8	5334.7	4823.7	4682.0	4580.1
57.5°	1938.8	1912.7	1962.6	2135.9	3091.1	4492.8	5315.4	5424.2	5048.0	4836.1	4694.5
60°	1526.3	1520.6	1500.2	1532.0	1953.5	3384.6	4424.8	4669.6	5025.4	4691.1	4496.2
62.5°	1246.4	1218.1	1258.9	1304.2	1357.5	2099.7	3109.3	3253.2	3989.7	3744.9	3377.8
65°	966.5	953.0	1003.9	1151.2	1183.0	1333.7	1771.1	1882.1	2355.7	2313.8	2037.3
67.5°	665.1	667.4	711.6	936.0	1096.9	1083.3	1084.4	1142.2	1229.4	913.3	795.4
70°	421.5	420.4	444.2	602.8	882.7	891.8	846.4	829.4	786.4	475.9	504.2
72.5°	270.8	262.9	275.3	333.1	456.6	528.0	543.9	554.1	455.5	373.9	405.7
75°	153.0	145.0	140.5	155.2	180.2	208.5	228.9	235.7	264.0	283.3	300.3
77.5°	46.5	41.9	51.0	68.0	89.5	120.1	146.2	150.7	177.9	200.6	217.6
80°	20.4	22.7	31.7	45.3	63.5	85.0	103.1	109.9	128.0	145.0	149.6
82.5°	12.5	13.6	21.5	30.6	44.2	60.1	73.7	75.9	94.0	107.6	111.0
85°	4.5	5.7	11.3	18.1	28.3	38.5	38.5	41.9	38.5	38.5	41.9
87.5°	0.0	0.0	1.1	2.3	2.3	3.4	4.5	4.5	5.7	6.8	7.9
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°	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3	2922.3
2.5°	2930.2	2924.6	2915.5	2882.6	2879.2	2869.0	2812.4	2803.3	2812.4	2785.2	2787.5
5°	2924.6	2941.6	2873.6	2840.7	2779.5	2735.3	2684.4	2658.3	2611.8	2582.4	2615.2
7.5°	2949.5	2942.7	2857.7	2786.3	2694.5	2582.4	2492.9	2441.9	2360.3	2337.6	2354.6
10°	2940.4	2904.2	2804.5	2710.4	2537.0	2438.5	2293.4	2152.9	2075.9	2036.2	2030.5
12.5°	2928.0	2917.8	2751.2	2589.2	2406.7	2199.4	1995.4	1862.8	1737.1	1682.7	1690.6
15°	2942.7	2856.6	2651.5	2446.4	2203.9	1932.0	1712.1	1541.0	1453.8	1418.7	1418.7
17.5°	2935.9	2827.1	2603.9	2286.6	1979.6	1657.7	1416.4	1313.3	1277.0	1277.0	1287.2
20°	2939.3	2846.4	2507.6	2126.9	1714.4	1396.0	1220.4	1183.0	1198.8	1204.5	1210.2
22.5°	2958.6	2782.9	2413.5	1951.2	1468.5	1194.3	1108.2	1109.3	1137.6	1168.2	1162.6
25°	2982.4	2758.0	2299.1	1776.7	1280.4	1095.7	1068.5	1065.1	1086.7	1102.5	1104.8
27.5°	2962.0	2714.9	2182.4	1559.2	1126.3	1030.0	1024.3	1026.6	1033.4	1065.1	1054.9
30°	3028.8	2727.4	2036.2	1376.7	1041.3	1008.5	1001.7	998.3	1008.5	1017.5	1009.6
32.5°	3111.5	2683.2	1927.4	1201.1	999.4	992.6	979.0	974.5	980.1	971.1	975.6
35°	3147.8	2675.3	1785.8	1075.3	966.5	960.9	953.0	951.8	953.0	945.0	938.2
37.5°	3168.2	2712.7	1623.8	1017.5	946.2	951.8	933.7	931.4	911.0	915.6	919.0
40°	3203.3	2654.9	1492.3	962.0	933.7	922.4	906.5	903.1	889.5	881.6	889.5
42.5°	3152.3	2637.9	1363.1	938.2	915.6	903.1	891.8	872.5	868.0	861.2	856.6
45°	3111.5	2540.4	1247.6	908.8	894.0	887.2	865.7	845.3	828.3	835.1	824.9
47.5°	3142.1	2506.5	1133.1	883.8	864.6	856.6	835.1	819.2	802.2	794.3	792.0
50°	3264.5	2569.9	1036.8	865.7	839.6	835.1	806.8	788.6	772.8	767.1	769.4
52.5°	3556.8	2743.3	971.1	828.3	815.8	795.4	779.6	756.9	746.7	728.6	739.9
55°	3927.4	3025.4	954.1	793.2	786.4	768.3	746.7	729.7	710.5	695.7	692.3
56°	4046.4	3160.3	940.5	779.6	768.3	758.1	729.7	719.5	688.9	685.5	683.3
57.5°	4142.7	3279.2	942.8	753.5	742.2	733.1	716.1	691.2	670.8	658.3	664.0
60°	3925.1	3069.6	899.7	713.9	711.6	694.6	670.8	659.5	634.5	619.8	616.4
62.5°	2917.8	2083.8	729.7	662.9	661.7	643.6	616.4	604.0	599.4	579.0	579.0
65°	1680.4	1306.5	631.1	620.9	611.9	593.8	566.6	556.4	545.0	538.2	532.6
67.5°	717.3	677.6	573.4	572.2	562.0	539.4	512.2	496.3	481.6	468.0	474.8
70°	520.1	528.0	517.8	512.2	499.7	471.4	447.6	428.3	405.7	396.6	403.4
72.5°	412.5	429.5	444.2	445.3	430.6	397.7	371.7	345.6	320.7	308.2	313.9
75°	312.7	324.1	338.8	342.2	320.7	298.0	273.1	245.9	226.6	211.9	214.2
77.5°	225.5	223.2	236.8	234.6	224.4	208.5	185.8	160.9	139.4	125.8	126.9
80°	154.1	157.5	165.4	164.3	151.8	141.6	124.6	104.2	88.4	77.1	74.8
82.5°	107.6	113.3	120.1	114.4	104.2	94.0	81.6	66.9	54.4	45.3	43.1
85°	38.5	44.2	51.0	54.4	57.8	55.5	46.5	37.4	27.2	22.7	21.5
87.5°	7.9	9.1	10.2	10.2	10.2	9.1	7.9	7.9	6.8	3.4	3.4
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)