

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: P527452

Luminaire Tested: **GALN-SA2C-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527452  
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-SA2C-727-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA 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: 10021 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

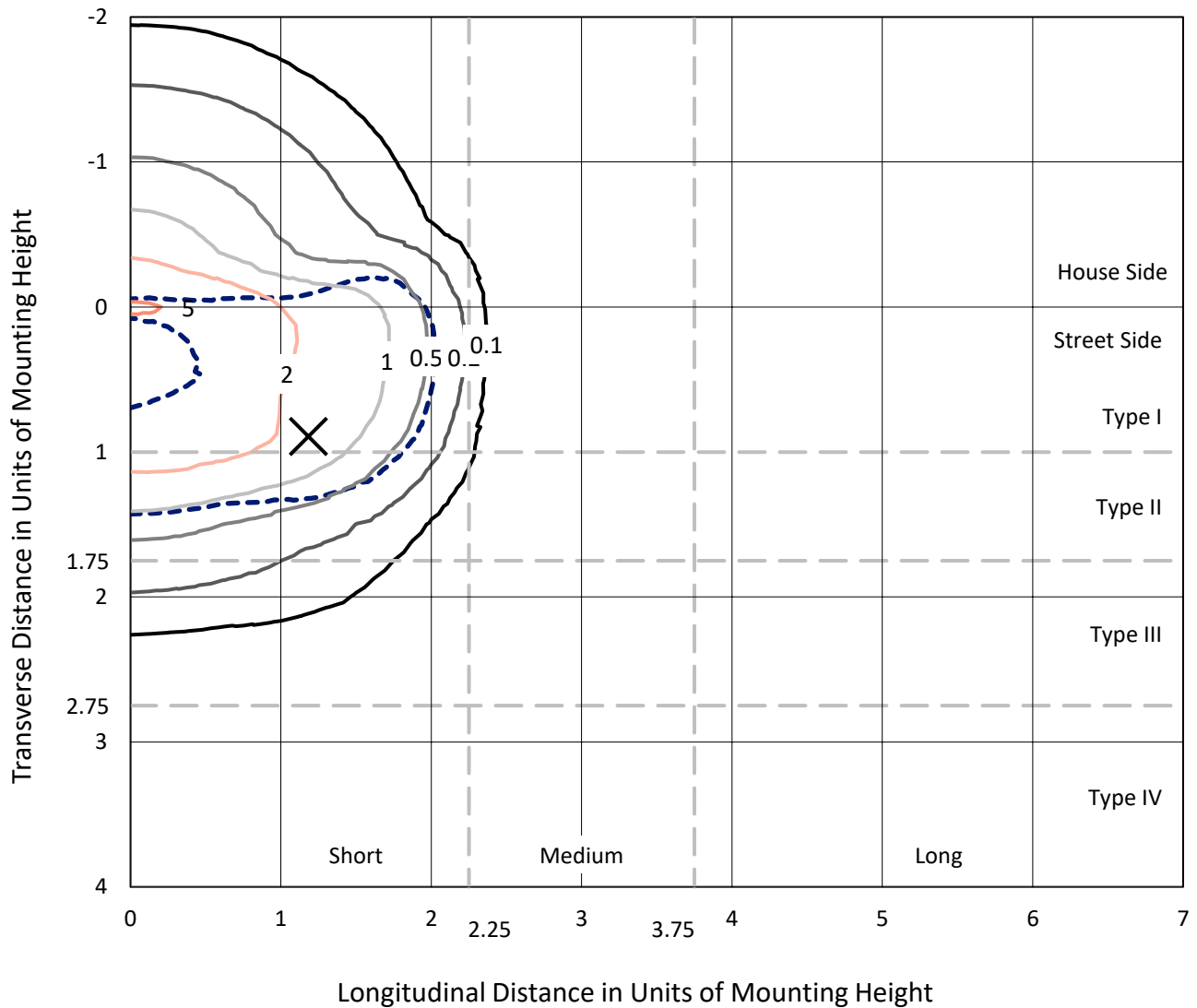
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

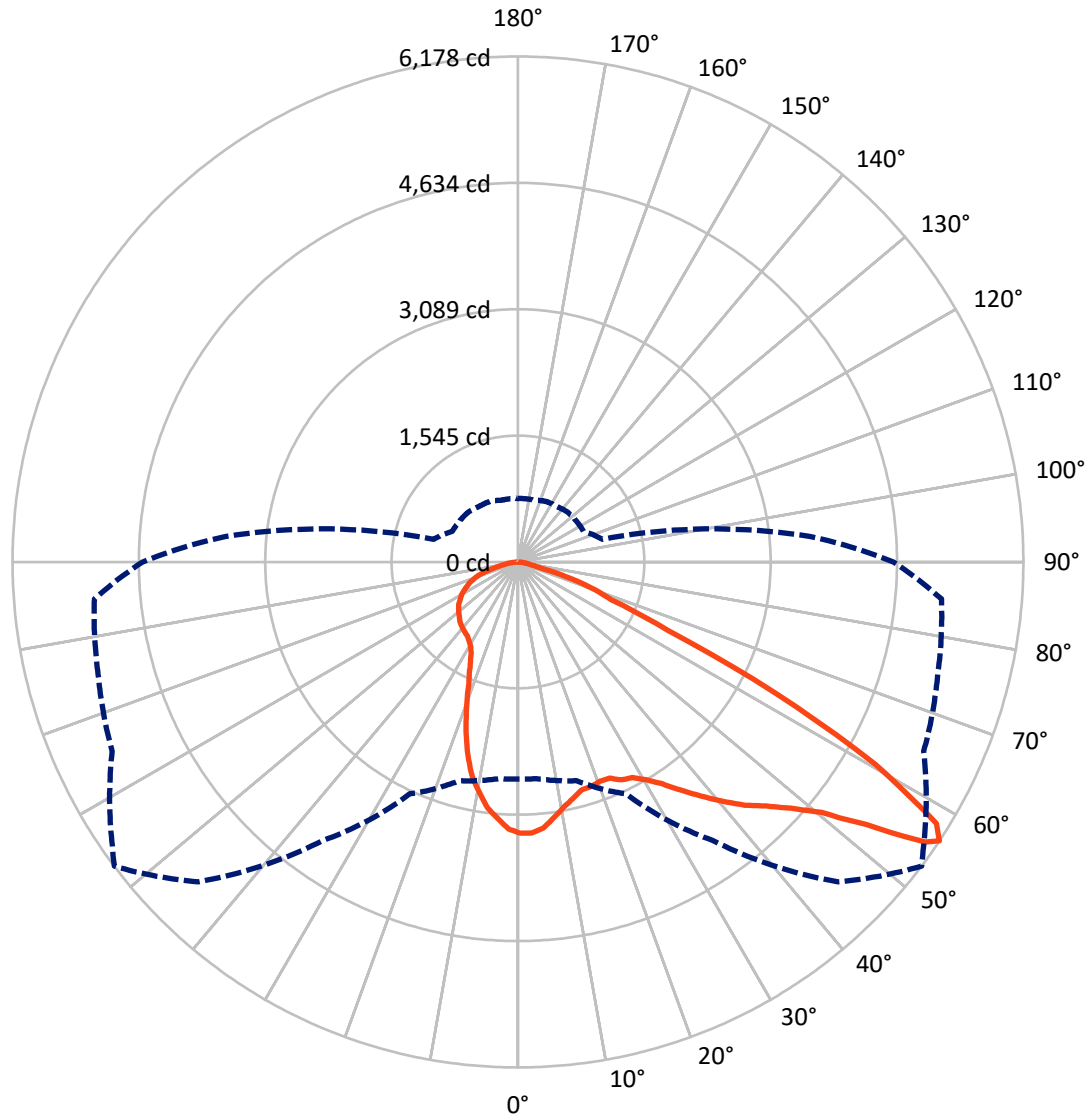
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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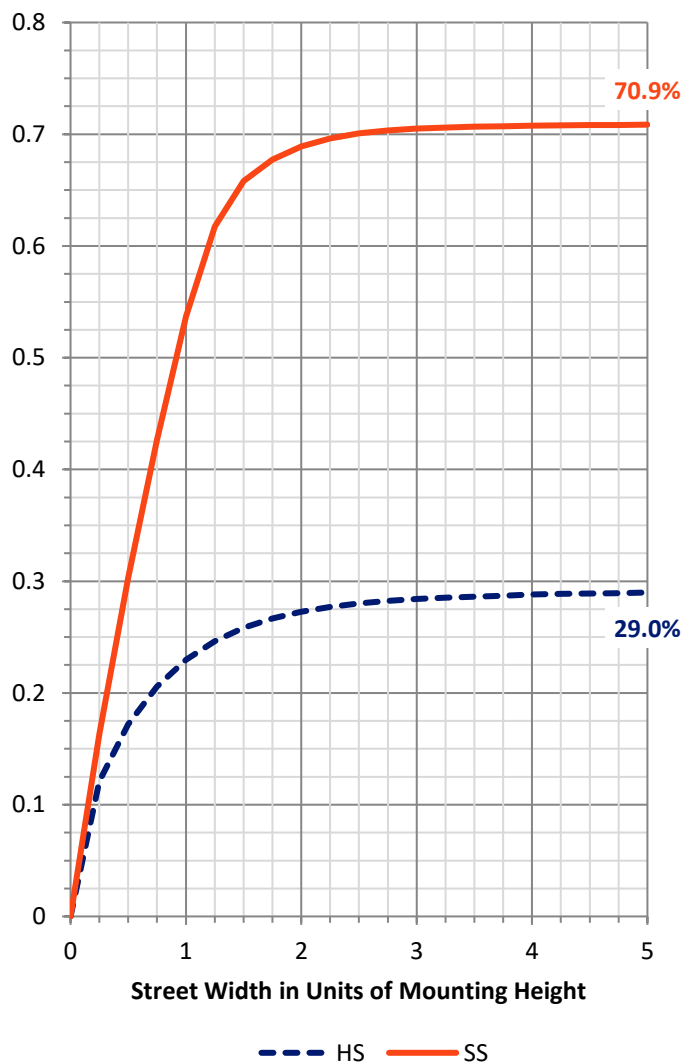
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2924.3	0.0	2924.3
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	7096.7	0.0	7096.7
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	10021.0	0.0	10021.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.5	2.9
10°-20°	733.0	7.3
20°-30°	1080.9	10.8
30°-40°	1544.4	15.4
40°-50°	2125.7	21.2
50°-60°	2512.0	25.1
60°-70°	1338.7	13.4
70°-80°	339.6	3.4
80°-90°	53.0	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°	10021.0	100.0
0°-180°	10021.0	100.0

**Coefficient of Utilization**



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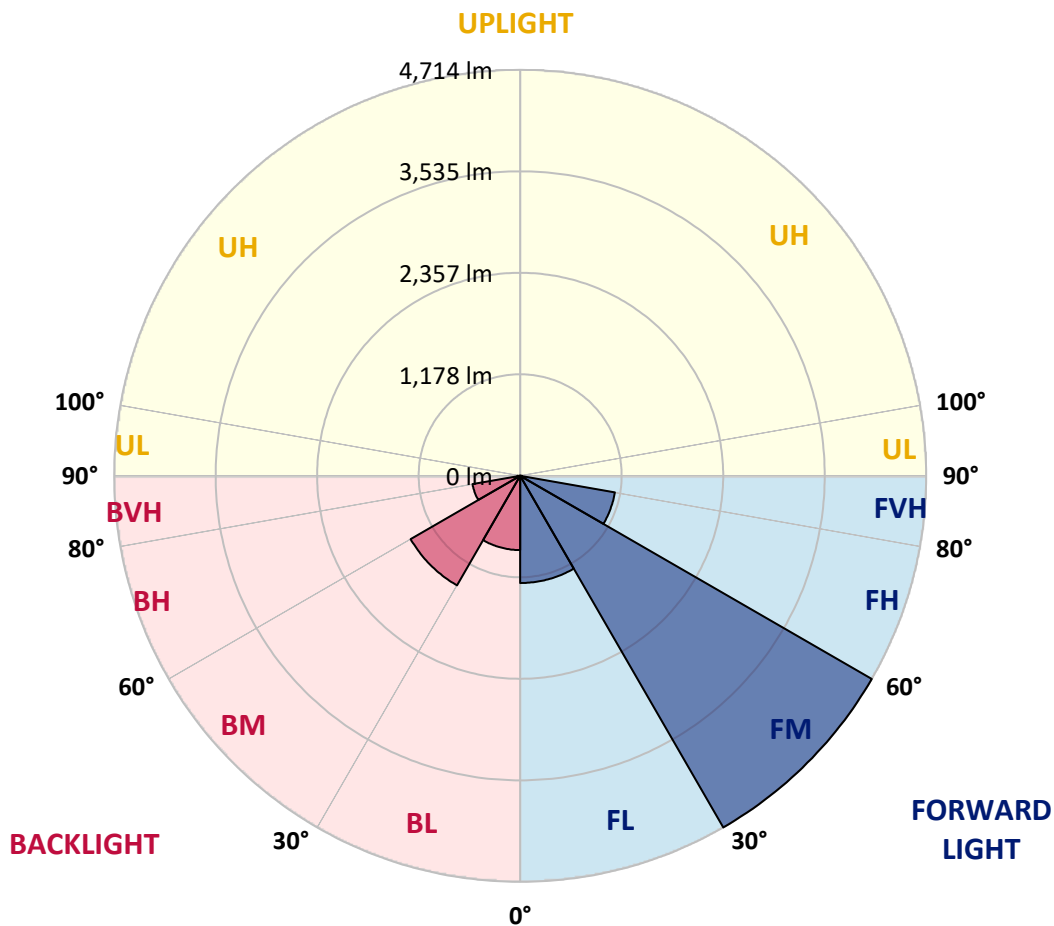
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.0	12.4			
FM (30°-60°)	4713.7	47.0			
FH (60°-80°)	1116.7	11.1			G1/1800
FVH (80°-90°)	21.3	0.2			G1/100
BL (0°-30°)	862.5	8.6	B2/1000		
BM (30°-60°)	1468.5	14.7	B2/2500		
BH (60°-80°)	561.7	5.6	B2/1000		G2/1000
BVH (80°-90°)	31.7	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3
2.5°	3274.2	3245.9	3262.6	3256.2	3308.9	3324.3	3316.6	3323.1	3352.6	3338.5	3308.9
5°	3059.5	3099.4	3107.1	3126.4	3157.2	3217.6	3265.2	3278.1	3292.2	3357.8	3351.3
7.5°	2864.1	2891.1	2877.0	2933.5	3000.4	3098.1	3155.9	3166.2	3296.1	3332.1	3359.0
10°	2740.7	2713.7	2778.0	2793.4	2869.3	2981.1	3050.5	3092.9	3211.2	3353.9	3370.6
12.5°	2626.3	2617.3	2655.9	2699.6	2784.4	2900.1	2970.8	2987.5	3170.1	3320.5	3398.9
15°	2541.5	2531.2	2569.7	2601.9	2700.9	2803.7	2893.7	2941.3	3125.1	3301.2	3374.5
17.5°	2474.6	2473.3	2495.2	2553.0	2654.6	2740.7	2886.0	2888.6	3101.9	3330.8	3395.0
20°	2470.8	2469.5	2473.3	2537.6	2630.2	2735.6	2861.6	2884.7	3101.9	3310.2	3396.3
22.5°	2502.9	2482.3	2505.5	2546.6	2613.5	2744.6	2870.6	2922.0	3176.5	3411.8	3454.2
25°	2554.3	2559.5	2572.3	2586.5	2625.0	2765.1	2950.3	2992.7	3263.9	3499.2	3533.9
27.5°	2648.2	2645.6	2650.7	2658.4	2691.9	2784.4	2982.4	3091.7	3446.5	3654.7	3620.0
30°	2785.7	2776.7	2797.3	2824.3	2793.4	2846.1	3089.1	3171.4	3616.2	3811.6	3716.4
32.5°	2910.4	2943.8	2982.4	2994.0	2956.7	2967.0	3230.5	3314.1	3757.6	4004.4	3834.7
35°	3066.0	3092.9	3144.4	3180.4	3173.9	3143.1	3423.3	3533.9	3962.0	4145.8	3959.4
37.5°	3217.6	3249.8	3334.6	3441.3	3382.2	3368.0	3629.0	3720.3	4024.9	4221.6	4050.7
40°	3461.9	3460.6	3607.2	3662.4	3715.1	3690.7	3842.4	3873.3	4058.4	4204.9	4053.2
42.5°	3748.6	3730.6	3879.7	3965.8	4033.9	4036.5	4064.8	4054.5	4073.8	4120.1	4026.2
45°	4021.1	4059.7	4210.1	4364.3	4432.5	4440.2	4252.5	4233.2	4100.8	4095.6	3974.8
47.5°	4354.0	4363.0	4486.4	4689.6	4847.7	4793.7	4495.4	4453.0	4219.1	4258.9	4060.9
50°	4373.3	4440.2	4550.7	4789.8	5275.8	5261.6	4810.4	4730.7	4409.3	4490.3	4301.3
52.5°	3969.7	3954.2	4085.4	4476.2	5243.6	5727.0	5332.3	5142.1	4818.1	4756.4	4690.8
55°	3024.8	3060.8	3176.5	3571.2	4553.3	5733.4	6043.2	5887.7	5255.2	5149.8	5073.9
56°	2653.3	2658.4	2767.7	3127.7	4154.8	5529.0	6178.2	6052.2	5472.4	5311.7	5196.0
57.5°	2199.5	2169.9	2226.5	2423.2	3506.9	5097.1	6030.3	6153.8	5727.0	5486.6	5325.9
60°	1731.6	1725.2	1702.0	1738.0	2216.2	3839.8	5019.9	5297.6	5701.3	5322.0	5100.9
62.5°	1414.1	1381.9	1428.2	1479.6	1540.0	2382.1	3527.5	3690.7	4526.3	4248.6	3832.1
65°	1096.5	1081.1	1139.0	1306.1	1342.1	1513.1	2009.3	2135.2	2672.6	2625.0	2311.4
67.5°	754.6	757.2	807.3	1061.8	1244.4	1229.0	1230.2	1295.8	1394.8	1036.1	902.4
70°	478.2	476.9	503.9	683.9	1001.4	1011.7	960.3	941.0	892.1	539.9	572.1
72.5°	307.2	298.2	312.4	377.9	518.1	599.0	617.0	628.6	516.8	424.2	460.2
75°	173.5	164.5	159.4	176.1	204.4	236.5	259.7	267.4	299.5	321.4	340.7
77.5°	52.7	47.6	57.8	77.1	101.6	136.3	165.8	171.0	201.8	227.5	246.8
80°	23.1	25.7	36.0	51.4	72.0	96.4	117.0	124.7	145.3	164.5	169.7
82.5°	14.1	15.4	24.4	34.7	50.1	68.1	83.6	86.1	106.7	122.1	126.0
85°	5.1	6.4	12.9	20.6	32.1	43.7	43.7	47.6	43.7	43.7	47.6
87.5°	0.0	0.0	1.3	2.6	2.6	3.9	5.1	5.1	6.4	7.7	9.0
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°	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3	3315.3
2.5°	3324.3	3317.9	3307.6	3270.3	3266.5	3254.9	3190.6	3180.4	3190.6	3159.8	3162.4
5°	3317.9	3337.2	3260.1	3222.8	3153.4	3103.2	3045.4	3015.8	2963.1	2929.7	2967.0
7.5°	3346.2	3338.5	3242.1	3161.1	3057.0	2929.7	2828.1	2770.3	2677.7	2652.0	2671.3
10°	3335.9	3294.8	3181.6	3075.0	2878.3	2766.4	2601.9	2442.5	2355.1	2310.1	2303.6
12.5°	3321.8	3310.2	3121.2	2937.4	2730.4	2495.2	2263.8	2113.4	1970.7	1909.0	1918.0
15°	3338.5	3240.8	3008.1	2775.4	2500.3	2191.8	1942.4	1748.3	1649.3	1609.5	1609.5
17.5°	3330.8	3207.4	2954.1	2594.2	2245.8	1880.7	1606.9	1489.9	1448.8	1448.8	1460.3
20°	3334.6	3229.2	2844.8	2412.9	1945.0	1583.8	1384.5	1342.1	1360.1	1366.5	1372.9
22.5°	3356.5	3157.2	2738.1	2213.7	1666.0	1354.9	1257.2	1258.5	1290.7	1325.4	1318.9
25°	3383.5	3128.9	2608.3	2015.7	1452.6	1243.1	1212.2	1208.4	1232.8	1250.8	1253.4
27.5°	3360.3	3080.1	2475.9	1768.9	1277.8	1168.5	1162.1	1164.7	1172.4	1208.4	1196.8
30°	3436.2	3094.2	2310.1	1561.9	1181.4	1144.1	1136.4	1132.5	1144.1	1154.4	1145.4
32.5°	3530.0	3044.1	2186.7	1362.6	1133.8	1126.1	1110.7	1105.5	1112.0	1101.7	1106.8
35°	3571.2	3035.1	2026.0	1220.0	1096.5	1090.1	1081.1	1079.8	1081.1	1072.1	1064.4
37.5°	3594.3	3077.5	1842.1	1154.4	1073.4	1079.8	1059.3	1056.7	1033.6	1038.7	1042.6
40°	3634.1	3012.0	1693.0	1091.4	1059.3	1046.4	1028.4	1024.6	1009.1	1000.1	1009.1
42.5°	3576.3	2992.7	1546.5	1064.4	1038.7	1024.6	1011.7	989.8	984.7	977.0	971.8
45°	3530.0	2882.1	1415.4	1031.0	1014.3	1006.6	982.1	959.0	939.7	947.4	935.9
47.5°	3564.7	2843.6	1285.5	1002.7	980.8	971.8	947.4	929.4	910.1	901.1	898.6
50°	3703.6	2915.5	1176.2	982.1	952.6	947.4	915.3	894.7	876.7	870.3	872.9
52.5°	4035.2	3112.2	1101.7	939.7	925.6	902.4	884.4	858.7	847.2	826.6	839.4
55°	4455.6	3432.3	1082.4	899.9	892.1	871.6	847.2	827.9	806.0	789.3	785.4
56°	4590.6	3585.3	1067.0	884.4	871.6	860.0	827.9	816.3	781.6	777.7	775.2
57.5°	4699.8	3720.3	1069.5	854.9	842.0	831.7	812.4	784.2	761.0	746.9	753.3
60°	4453.0	3482.5	1020.7	809.9	807.3	788.0	761.0	748.2	719.9	703.2	699.3
62.5°	3310.2	2364.1	827.9	752.0	750.7	730.2	699.3	685.2	680.0	656.9	656.9
65°	1906.4	1482.2	716.0	704.5	694.2	673.6	642.8	631.2	618.3	610.6	604.2
67.5°	813.7	768.7	650.5	649.2	637.6	611.9	581.1	563.1	546.3	530.9	538.6
70°	590.1	599.0	587.5	581.1	566.9	534.8	507.8	485.9	460.2	449.9	457.6
72.5°	467.9	487.2	503.9	505.2	488.5	451.2	421.6	392.1	363.8	349.7	356.1
75°	354.8	367.7	384.4	388.2	363.8	338.1	309.8	279.0	257.1	240.4	243.0
77.5°	255.8	253.2	268.7	266.1	254.5	236.5	210.8	182.5	158.1	142.7	144.0
80°	174.8	178.7	187.7	186.4	172.3	160.7	141.4	118.3	100.3	87.4	84.8
82.5°	122.1	128.6	136.3	129.8	118.3	106.7	92.6	75.8	61.7	51.4	48.8
85°	43.7	50.1	57.8	61.7	65.6	63.0	52.7	42.4	30.9	25.7	24.4
87.5°	9.0	10.3	11.6	11.6	11.6	10.3	9.0	9.0	7.7	3.9	3.9
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)