

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: P527662

Luminaire Tested: **GALN-SA2D-722-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-722-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9675 lumens  
Efficiency: N/A  
Efficacy: 77.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

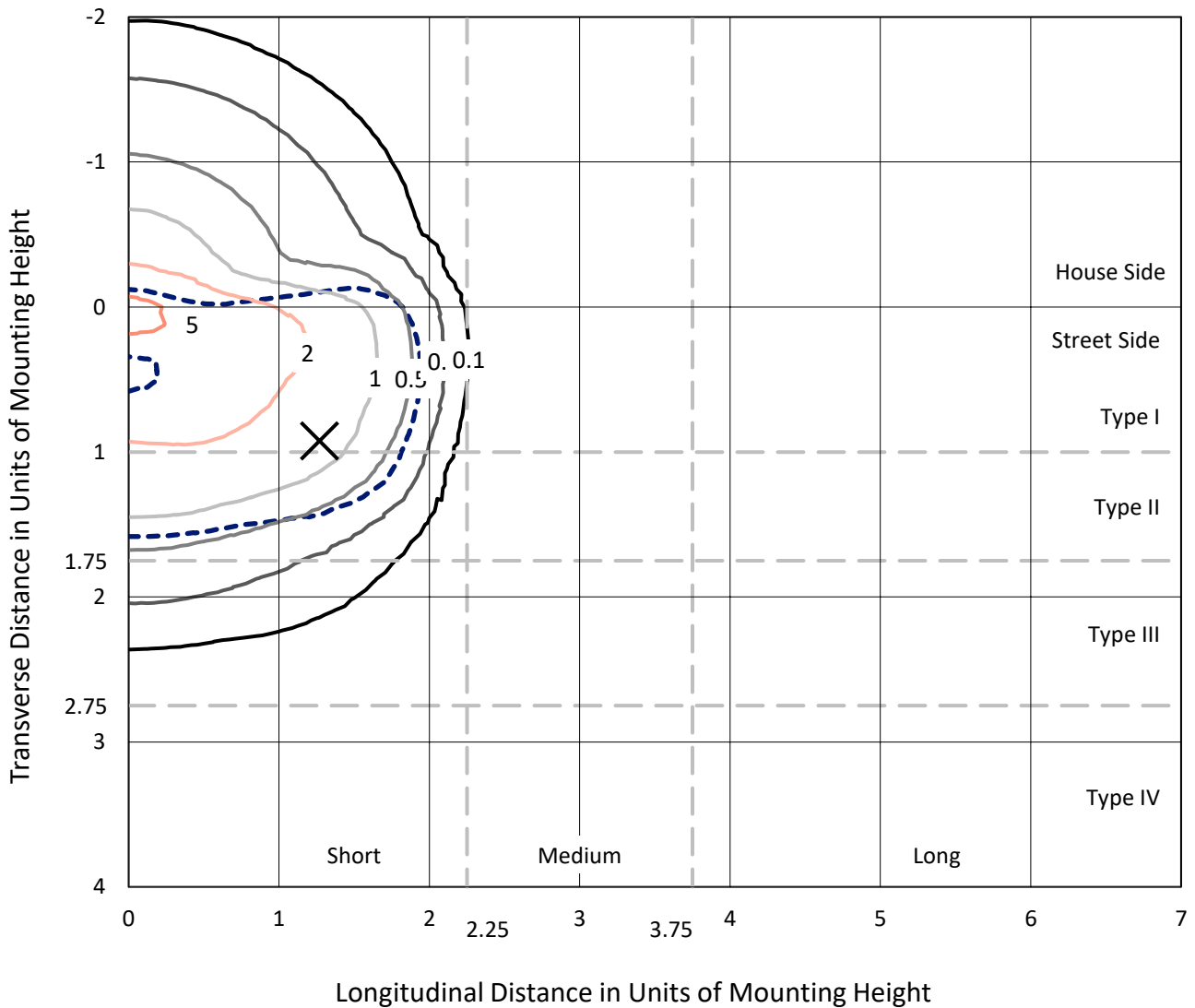
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

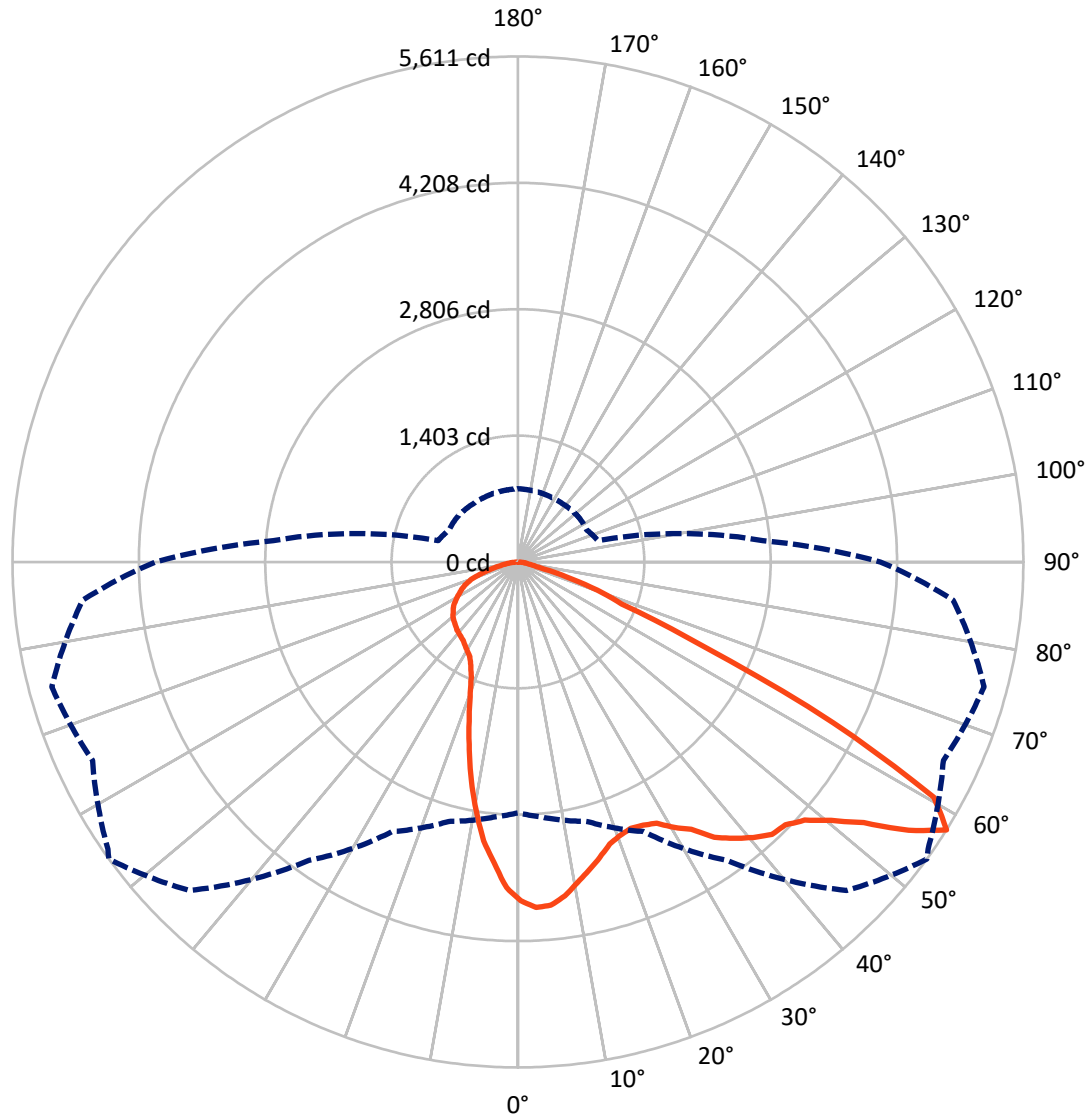
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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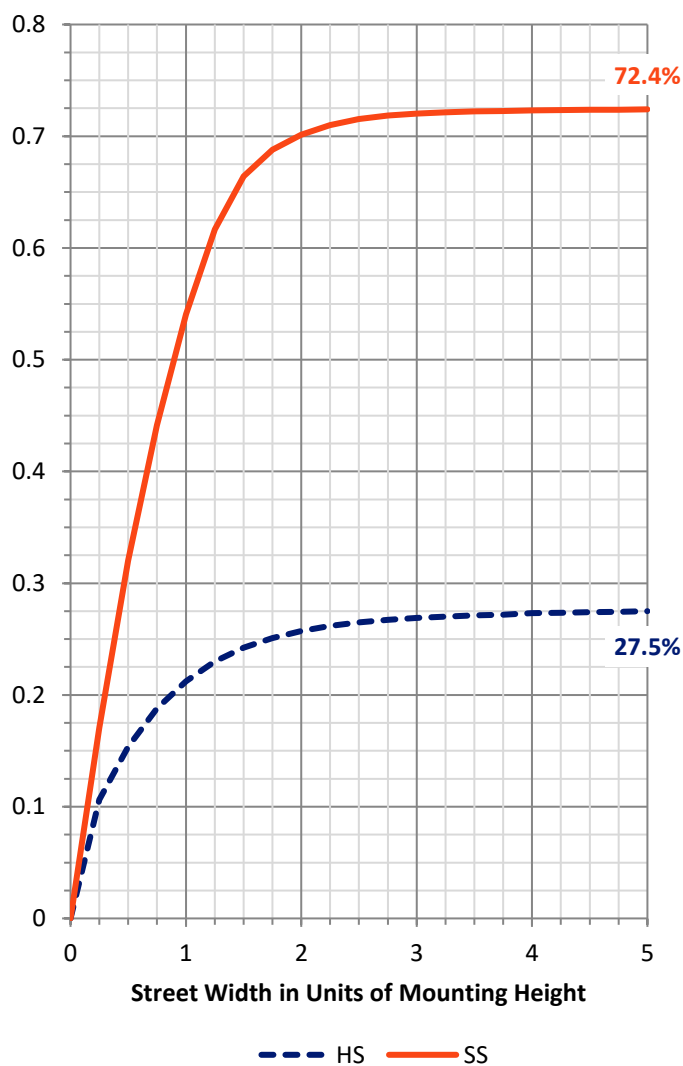
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2676.6	0.0	2676.6
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	6998.4	0.0	6998.4
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	9675.0	0.0	9675.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.3	3.4
10°-20°	750.9	7.8
20°-30°	1055.0	10.9
30°-40°	1474.9	15.2
40°-50°	1996.8	20.6
50°-60°	2432.2	25.1
60°-70°	1266.8	13.1
70°-80°	324.6	3.4
80°-90°	49.5	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°	9675.0	100.0
0°-180°	9675.0	100.0

**Coefficient of Utilization**



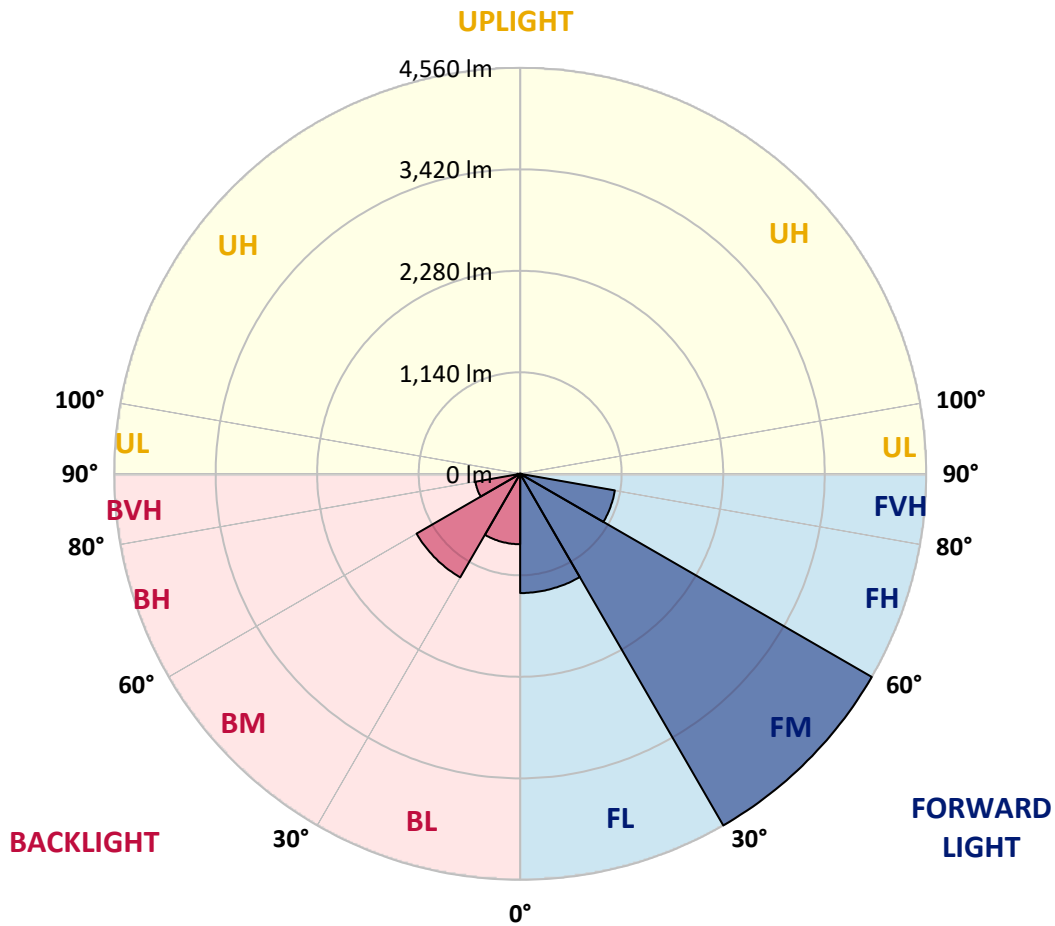
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 CATALOG NUMBER: GALN-SA2D-722-U-SL3-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.2	13.8			
FM (30°-60°)	4560.5	47.1			
FH (60°-80°)	1080.0	11.2			G1/1800
FVH (80°-90°)	18.7	0.2			G1/100
BL (0°-30°)	791.1	8.2	B2/1000		
BM (30°-60°)	1343.4	13.9	B2/2500		
BH (60°-80°)	511.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.8	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°	54°	55°	65°	75°	85°
0°	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6
2.5°	3867.5	3852.6	3855.1	3875.0	3850.1	3840.2	3840.2	3791.7	3795.4	3761.8	3753.1
5°	3778.0	3743.2	3766.8	3796.6	3801.6	3811.5	3827.7	3815.3	3780.5	3744.4	3685.9
7.5°	3544.2	3575.3	3584.0	3605.1	3649.9	3690.9	3741.9	3707.1	3705.8	3669.8	3635.0
10°	3339.0	3320.3	3367.6	3398.7	3473.3	3541.7	3620.0	3616.3	3635.0	3593.9	3534.2
12.5°	3135.0	3120.1	3142.5	3213.4	3317.9	3417.3	3510.6	3475.8	3575.3	3567.8	3439.7
15°	2918.7	2929.9	2962.2	3028.1	3164.9	3284.3	3402.4	3403.7	3492.0	3521.8	3350.2
17.5°	2766.9	2754.5	2795.5	2893.8	3015.7	3158.7	3293.0	3320.3	3455.9	3473.3	3322.8
20°	2653.8	2671.2	2724.7	2774.4	2914.9	3087.8	3239.5	3249.5	3448.4	3495.7	3279.3
22.5°	2626.4	2616.5	2633.9	2714.7	2830.4	3018.1	3210.9	3248.2	3447.2	3488.2	3197.2
25°	2597.8	2630.2	2628.9	2709.7	2794.3	2962.2	3234.5	3275.6	3513.1	3526.8	3208.4
27.5°	2662.5	2658.8	2693.6	2699.8	2804.3	2977.1	3284.3	3315.4	3622.5	3611.3	3217.1
30°	2727.2	2708.5	2729.6	2803.0	2851.5	3062.9	3421.1	3418.6	3764.3	3756.8	3244.5
32.5°	2806.7	2798.0	2811.7	2876.4	2958.5	3177.3	3536.7	3610.1	3908.5	3955.8	3339.0
35°	2821.7	2857.7	2890.1	2977.1	3094.0	3362.6	3754.3	3815.3	4075.2	4223.2	3519.3
37.5°	2916.2	2929.9	3005.7	3159.9	3266.9	3610.1	3892.4	3930.9	4226.9	4394.8	3709.6
40°	3016.9	3033.1	3147.5	3309.1	3455.9	3771.8	4021.7	4034.1	4275.4	4526.6	3833.9
42.5°	3153.7	3168.6	3281.8	3484.5	3681.0	3909.8	4136.1	4149.8	4271.7	4678.3	4031.7
45°	3295.5	3331.5	3464.6	3694.7	3871.2	4071.5	4162.2	4218.2	4306.5	4813.9	4192.1
47.5°	3494.4	3528.0	3637.4	3862.5	4069.0	4213.2	4282.9	4337.6	4389.8	4932.0	4295.3
50°	3705.8	3712.1	3845.1	4049.1	4200.8	4373.6	4507.9	4526.6	4499.2	5068.8	4470.6
52.5°	3861.3	3881.2	3984.4	4183.4	4409.7	4622.4	4806.4	4826.3	4772.8	5119.8	4530.3
55°	3603.9	3592.7	3760.6	4025.4	4550.2	4992.9	5260.3	5275.2	4971.8	5277.7	4725.6
57.5°	2785.6	2839.1	2982.1	3301.7	4042.9	5157.1	5611.0	5557.5	5210.6	5357.3	4849.9
60°	2024.5	2012.1	2107.9	2321.7	3046.8	4444.5	5305.1	5359.8	5015.3	4828.8	3999.3
62.5°	1649.0	1631.6	1639.0	1646.5	1966.1	2949.8	3927.2	3926.0	3862.5	3470.8	2697.3
65°	1318.2	1359.2	1363.0	1418.9	1460.0	1762.1	2275.7	2397.6	2088.0	1712.4	1242.3
67.5°	993.6	978.7	1028.4	1227.4	1304.5	1272.2	1242.3	1256.0	892.9	644.2	606.9
70°	585.7	579.5	639.2	855.6	1074.4	1011.0	936.4	937.7	613.1	450.2	501.2
72.5°	320.8	319.6	332.0	434.0	610.6	634.2	562.1	579.5	365.6	364.4	391.7
75°	179.1	175.3	171.6	191.5	220.1	232.5	237.5	240.0	251.2	281.0	292.2
77.5°	65.9	63.4	63.4	73.4	93.3	116.9	148.0	150.5	177.8	203.9	215.1
80°	22.4	24.9	33.6	46.0	62.2	83.3	100.7	103.2	125.6	143.0	146.7
82.5°	13.7	14.9	22.4	32.3	44.8	58.4	74.6	75.9	93.3	104.5	109.4
85°	6.2	7.5	12.4	19.9	28.6	38.6	39.8	39.8	38.6	39.8	37.3
87.5°	0.0	0.0	2.5	2.5	2.5	3.7	5.0	3.7	6.2	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527662

CATALOG NUMBER: GALN-SA2D-722-U-SL3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6	3760.6
2.5°	3727.0	3713.3	3671.0	3633.7	3622.5	3572.8	3499.4	3508.1	3454.6	3479.5	3453.4
5°	3676.0	3630.0	3521.8	3475.8	3355.2	3300.4	3263.1	3169.9	3126.3	3117.6	3080.3
7.5°	3545.4	3516.8	3381.3	3256.9	3128.8	3019.4	2878.9	2783.1	2714.7	2696.1	2641.3
10°	3442.2	3378.8	3191.0	3002.0	2819.2	2628.9	2446.1	2303.1	2233.5	2152.6	2125.3
12.5°	3340.2	3244.5	2990.8	2748.3	2512.0	2272.0	2050.7	1876.6	1724.8	1688.8	1676.3
15°	3276.8	3110.2	2811.7	2519.5	2183.7	1870.3	1649.0	1534.6	1441.3	1402.7	1430.1
17.5°	3193.5	2999.5	2640.1	2250.9	1881.5	1593.0	1407.7	1336.8	1303.3	1307.0	1295.8
20°	3089.0	2895.0	2415.0	2007.1	1611.7	1381.6	1275.9	1249.8	1254.8	1263.5	1259.7
22.5°	3014.4	2768.2	2252.1	1758.4	1392.8	1264.7	1221.2	1202.5	1218.7	1226.2	1219.9
25°	2957.2	2660.0	2054.4	1538.3	1266.0	1198.8	1178.9	1177.7	1202.5	1212.5	1206.3
27.5°	2905.0	2559.3	1857.9	1370.4	1181.4	1147.8	1141.6	1156.5	1172.7	1182.6	1191.3
30°	2873.9	2482.2	1673.8	1229.9	1139.1	1122.9	1111.8	1125.4	1134.1	1144.1	1139.1
32.5°	2903.7	2427.5	1496.0	1150.3	1104.3	1088.1	1103.0	1094.3	1109.3	1118.0	1104.3
35°	2997.0	2379.0	1369.2	1108.0	1064.5	1070.7	1073.2	1069.5	1075.7	1068.2	1084.4
37.5°	3089.0	2361.5	1252.3	1072.0	1045.8	1045.8	1043.4	1035.9	1048.3	1045.8	1053.3
40°	3205.9	2372.7	1152.8	1033.4	1028.4	1025.9	1016.0	1014.8	1009.8	1011.0	1013.5
42.5°	3307.9	2397.6	1095.6	1008.5	1012.3	1017.2	998.6	983.7	989.9	977.4	977.4
45°	3416.1	2420.0	1044.6	991.1	987.4	986.2	971.2	962.5	957.6	958.8	970.0
47.5°	3586.5	2452.3	1006.0	967.5	970.0	951.3	947.6	936.4	941.4	948.8	950.1
50°	3707.1	2520.7	976.2	940.1	948.8	936.4	914.0	909.1	909.1	921.5	919.0
52.5°	3791.7	2616.5	947.6	910.3	914.0	904.1	896.6	885.4	878.0	895.4	904.1
55°	4050.3	2775.7	940.1	885.4	884.2	874.2	860.6	849.4	845.6	848.1	865.5
57.5°	4025.4	2725.9	916.5	841.9	839.4	825.7	812.1	808.3	807.1	809.6	814.5
60°	3268.1	2013.3	818.3	792.2	788.4	785.9	772.3	757.3	749.9	757.3	751.1
62.5°	2162.6	1348.0	721.3	732.5	735.0	728.7	706.3	691.4	693.9	702.6	688.9
65°	1062.0	792.2	654.1	684.0	686.5	669.0	647.9	630.5	621.8	629.2	623.0
67.5°	606.9	605.6	599.4	630.5	629.2	611.8	578.3	563.3	548.4	550.9	547.2
70°	514.8	524.8	537.2	555.9	554.6	534.7	494.9	483.7	462.6	460.1	453.9
72.5°	405.4	422.8	450.2	463.9	452.7	427.8	401.7	383.0	364.4	353.2	356.9
75°	300.9	325.8	340.7	349.4	332.0	318.4	297.2	274.8	252.4	242.5	238.8
77.5°	218.9	226.3	240.0	246.2	235.0	221.4	208.9	186.5	165.4	151.7	148.0
80°	153.0	157.9	167.9	167.9	167.9	161.7	145.5	123.1	109.4	97.0	94.5
82.5°	106.9	111.9	121.9	116.9	115.7	108.2	98.2	80.8	65.9	57.2	54.7
85°	37.3	41.0	49.7	59.7	63.4	62.2	56.0	44.8	34.8	28.6	26.1
87.5°	8.7	8.7	9.9	8.7	8.7	9.9	8.7	8.7	8.7	6.2	5.0
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)