

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: P527610

Luminaire Tested: **GALN-SA2C-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527610
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-SA2C-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 8792 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

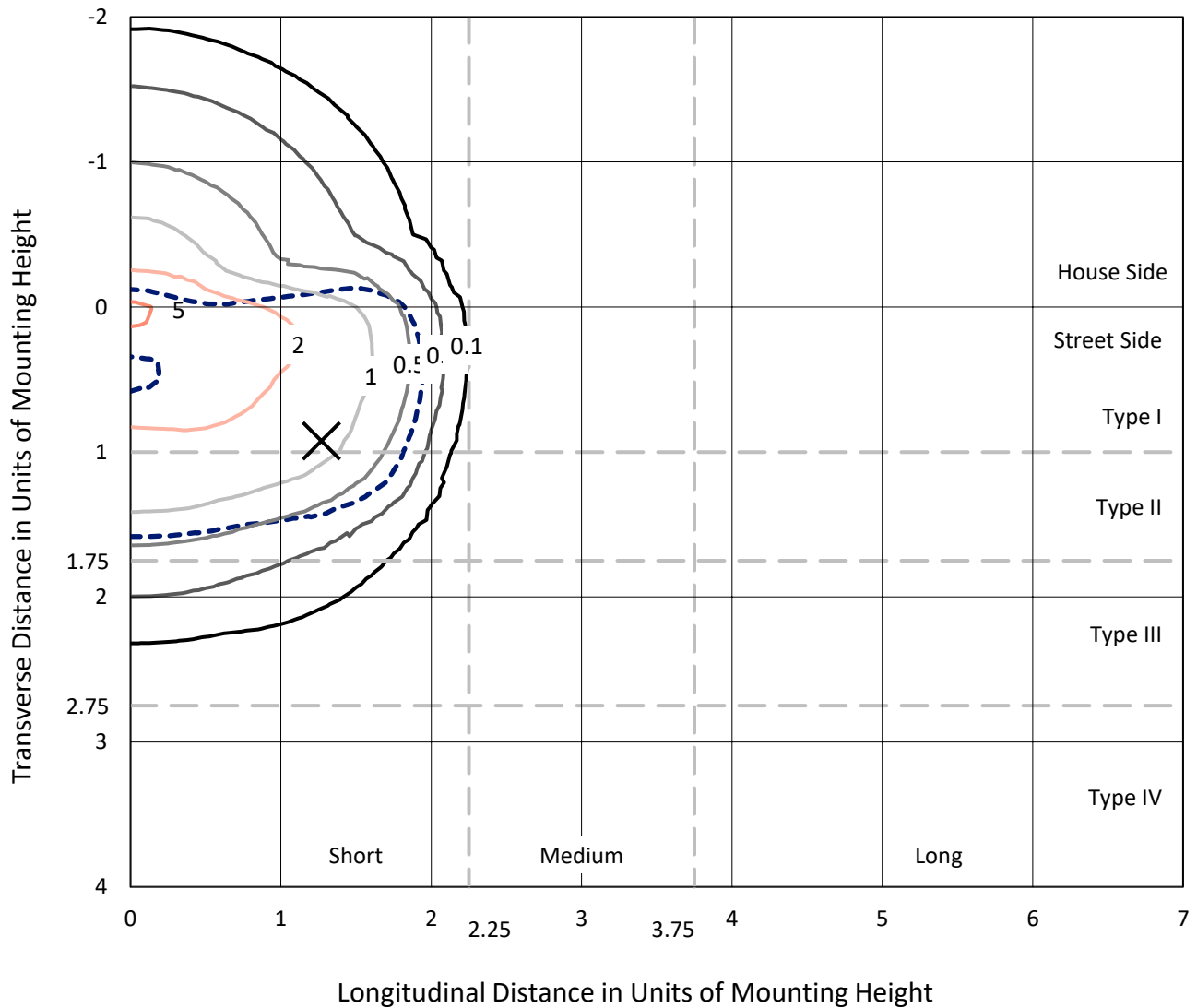
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

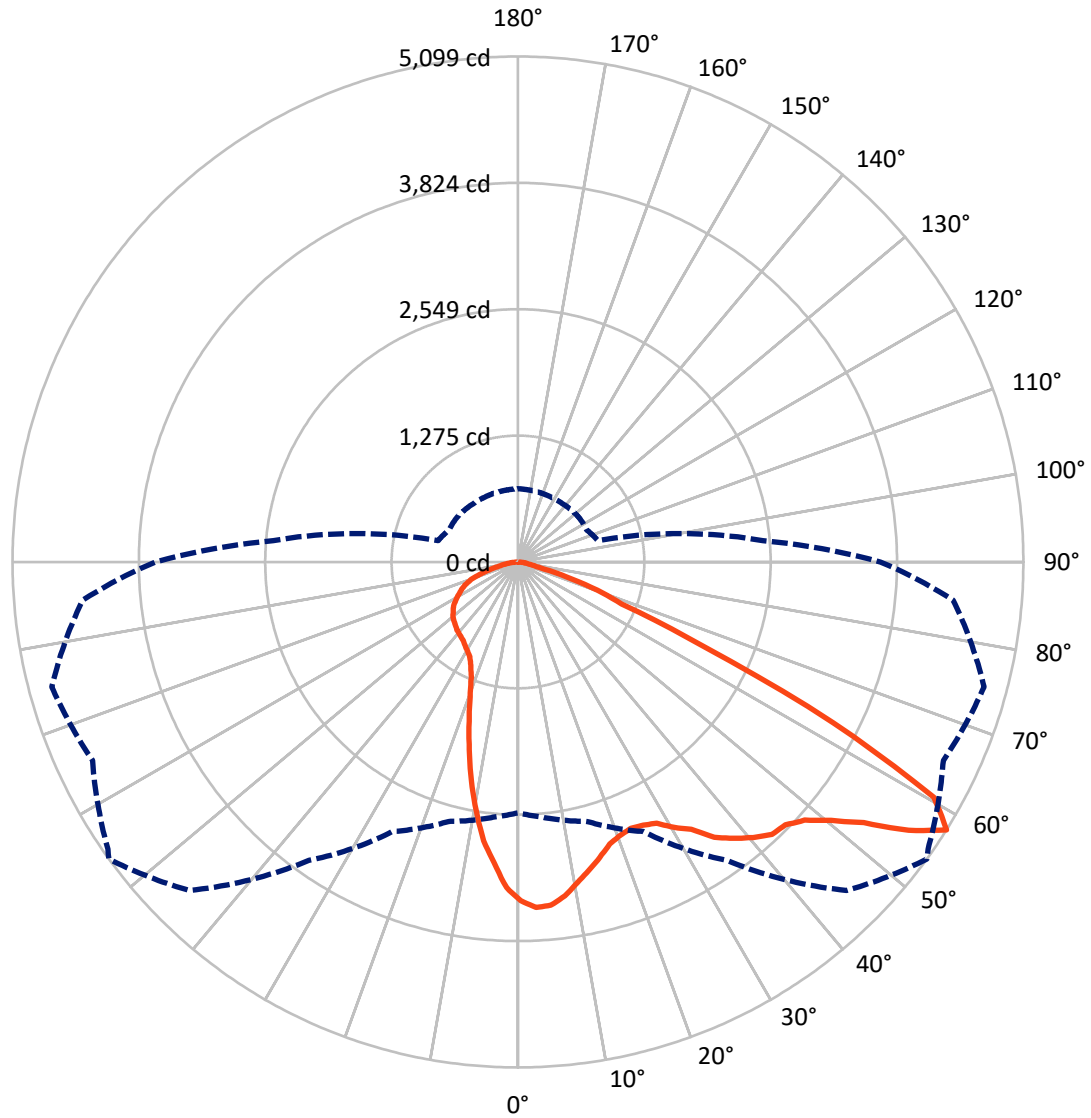
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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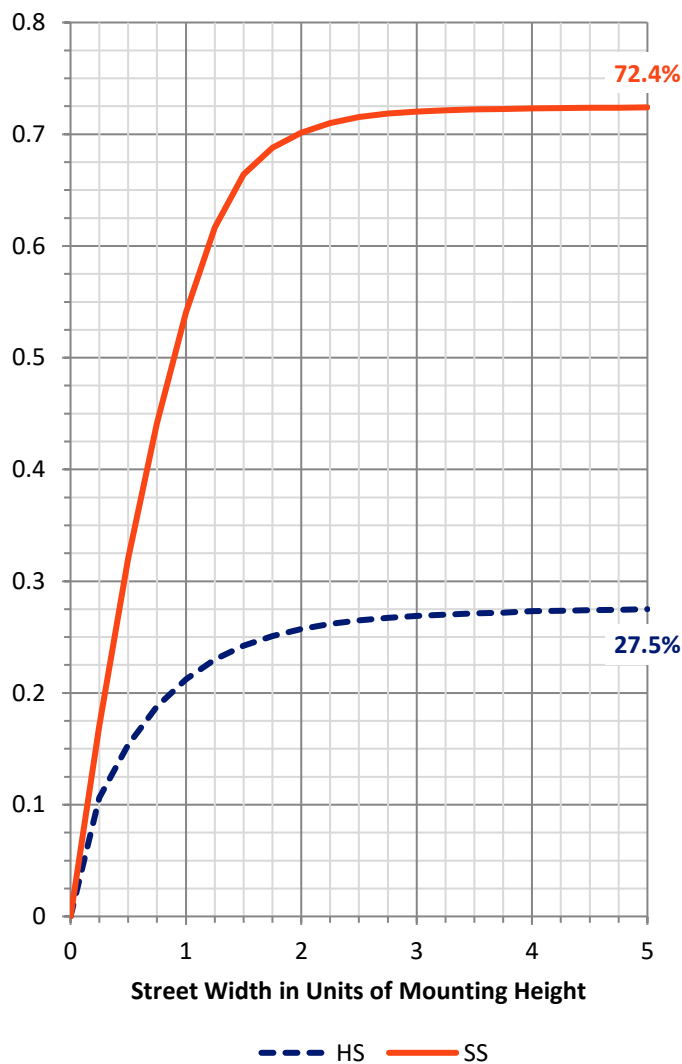
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2432.3	0.0	2432.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	6359.6	0.0	6359.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	8792.0	0.0	8792.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.7	3.4
10°-20°	682.4	7.8
20°-30°	958.7	10.9
30°-40°	1340.3	15.2
40°-50°	1814.5	20.6
50°-60°	2210.2	25.1
60°-70°	1151.2	13.1
70°-80°	295.0	3.4
80°-90°	45.0	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°	8792.0	100.0
0°-180°	8792.0	100.0

Coefficient of Utilization



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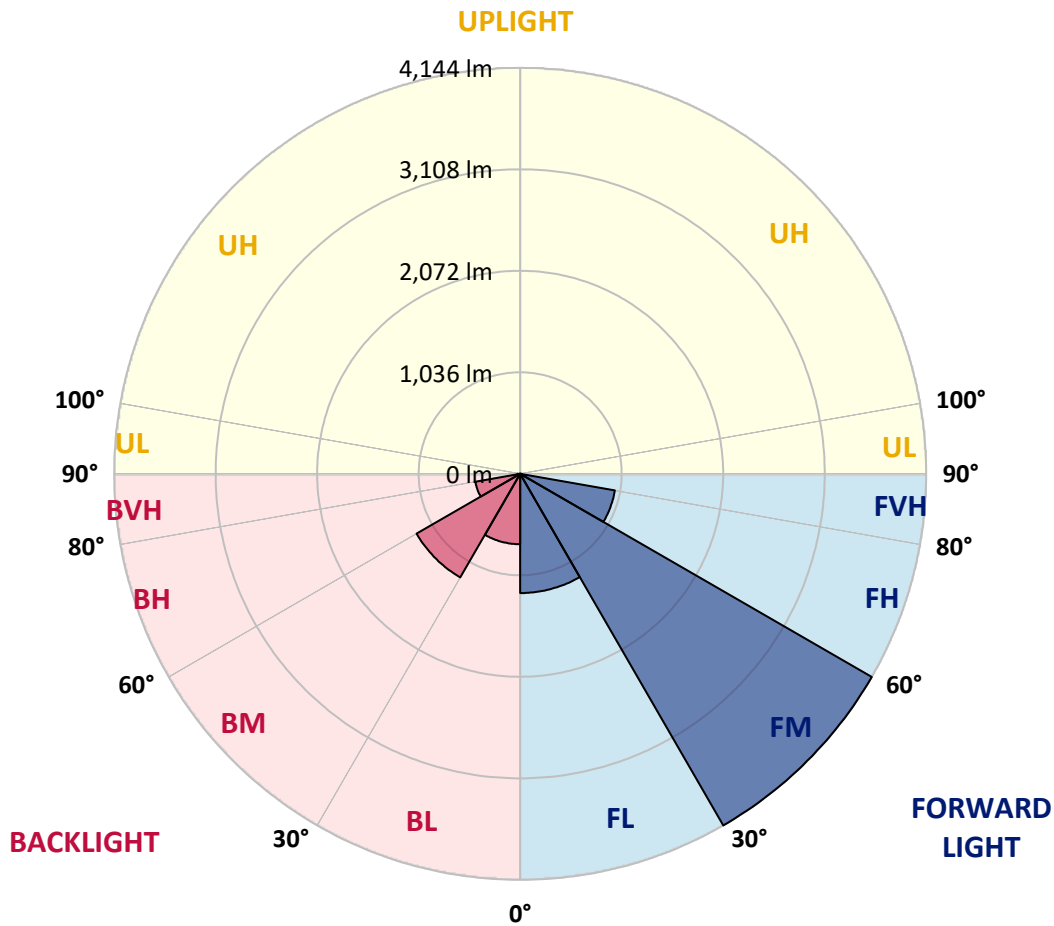
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.9	13.8			
FM (30°-60°)	4144.3	47.1			
FH (60°-80°)	981.4	11.2			G1/1800
FVH (80°-90°)	17.0	0.2			G1/100
BL (0°-30°)	718.9	8.2	B2/1000		
BM (30°-60°)	1220.8	13.9	B2/2500		
BH (60°-80°)	464.7	5.3	B1/500		G1/500
BVH (80°-90°)	28.0	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°	54°	55°	65°	75°	85°
0°	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3
2.5°	3514.5	3501.0	3503.2	3521.3	3498.7	3489.7	3489.7	3445.6	3449.0	3418.5	3410.6
5°	3433.2	3401.5	3423.0	3450.1	3454.6	3463.7	3478.4	3467.1	3435.4	3402.7	3349.5
7.5°	3220.7	3249.0	3256.9	3276.1	3316.8	3354.1	3400.4	3368.8	3367.6	3334.9	3303.2
10°	3034.3	3017.3	3060.2	3088.5	3156.3	3218.5	3289.7	3286.3	3303.2	3265.9	3211.7
12.5°	2848.9	2835.4	2855.7	2920.1	3015.0	3105.4	3190.2	3158.6	3249.0	3242.2	3125.8
15°	2652.3	2662.5	2691.8	2751.7	2876.0	2984.5	3091.9	3093.0	3173.3	3200.4	3044.4
17.5°	2514.4	2503.1	2540.4	2629.7	2740.4	2870.4	2992.4	3017.3	3140.5	3156.3	3019.6
20°	2411.6	2427.4	2476.0	2521.2	2648.9	2806.0	2943.8	2952.9	3133.7	3176.6	2980.0
22.5°	2386.7	2377.7	2393.5	2467.0	2572.1	2742.7	2917.9	2951.8	3132.6	3169.9	2905.4
25°	2360.7	2390.1	2389.0	2462.4	2539.3	2691.8	2939.3	2976.6	3192.5	3204.9	2915.6
27.5°	2419.5	2416.1	2447.7	2453.4	2548.3	2705.4	2984.5	3012.8	3291.9	3281.7	2923.5
30°	2478.3	2461.3	2480.5	2547.2	2591.3	2783.4	3108.8	3106.6	3420.7	3414.0	2948.4
32.5°	2550.6	2542.7	2555.1	2613.9	2688.5	2887.3	3213.9	3280.6	3551.8	3594.8	3034.3
35°	2564.1	2596.9	2626.3	2705.4	2811.6	3055.7	3411.7	3467.1	3703.3	3837.7	3198.1
37.5°	2650.0	2662.5	2731.4	2871.5	2968.7	3280.6	3537.1	3572.2	3841.1	3993.7	3371.0
40°	2741.6	2756.3	2860.2	3007.1	3140.5	3427.5	3654.7	3666.0	3885.2	4113.5	3484.0
42.5°	2865.9	2879.4	2982.3	3166.5	3345.0	3553.0	3758.6	3771.1	3881.8	4251.3	3663.7
45°	2994.7	3027.5	3148.4	3357.5	3517.9	3699.9	3782.4	3833.2	3913.5	4374.5	3809.5
47.5°	3175.5	3206.0	3305.5	3510.0	3697.6	3828.7	3892.0	3941.7	3989.2	4481.9	3903.3
50°	3367.6	3373.3	3494.2	3679.5	3817.4	3974.5	4096.5	4113.5	4088.6	4606.2	4062.6
52.5°	3508.9	3527.0	3620.8	3801.6	4007.2	4200.5	4367.7	4385.8	4337.2	4652.5	4116.9
55°	3275.0	3264.8	3417.3	3658.1	4134.9	4537.3	4780.2	4793.8	4518.0	4796.0	4294.3
57.5°	2531.4	2580.0	2709.9	3000.4	3673.9	4686.4	5098.9	5050.3	4735.0	4868.4	4407.3
60°	1839.8	1828.5	1915.5	2109.9	2768.7	4038.9	4820.9	4870.6	4557.6	4388.1	3634.3
62.5°	1498.5	1482.7	1489.4	1496.2	1786.7	2680.5	3568.8	3567.6	3510.0	3154.0	2451.1
65°	1197.9	1235.2	1238.6	1289.4	1326.7	1601.3	2068.0	2178.8	1897.4	1556.1	1128.9
67.5°	902.9	889.4	934.6	1115.4	1185.4	1156.1	1128.9	1141.4	811.4	585.4	551.5
70°	532.3	526.6	580.9	777.5	976.4	918.8	850.9	852.1	557.1	409.1	455.4
72.5°	291.6	290.4	301.7	394.4	554.9	576.3	510.8	526.6	332.2	331.1	356.0
75°	162.7	159.3	156.0	174.0	200.0	211.3	215.8	218.1	228.3	255.4	265.6
77.5°	59.9	57.6	57.6	66.7	84.8	106.2	134.5	136.7	161.6	185.3	195.5
80°	20.3	22.6	30.5	41.8	56.5	75.7	91.5	93.8	114.1	130.0	133.3
82.5°	12.4	13.6	20.3	29.4	40.7	53.1	67.8	68.9	84.8	94.9	99.4
85°	5.7	6.8	11.3	18.1	26.0	35.0	36.2	36.2	35.0	36.2	33.9
87.5°	0.0	0.0	2.3	2.3	2.3	3.4	4.5	3.4	5.7	6.8	6.8
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°	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3	3417.3
2.5°	3386.8	3374.4	3336.0	3302.1	3291.9	3246.7	3180.0	3187.9	3139.4	3162.0	3138.2
5°	3340.5	3298.7	3200.4	3158.6	3048.9	2999.2	2965.3	2880.6	2841.0	2833.1	2799.2
7.5°	3221.8	3195.9	3072.7	2959.7	2843.3	2743.8	2616.1	2529.1	2467.0	2450.0	2400.3
10°	3128.1	3070.4	2899.8	2728.0	2561.9	2389.0	2222.9	2092.9	2029.6	1956.2	1931.3
12.5°	3035.4	2948.4	2717.8	2497.5	2282.8	2064.6	1863.5	1705.3	1567.4	1534.6	1523.3
15°	2977.8	2826.3	2555.1	2289.5	1984.4	1699.6	1498.5	1394.5	1309.8	1274.7	1299.6
17.5°	2902.0	2725.7	2399.2	2045.4	1709.8	1447.6	1279.2	1214.8	1184.3	1187.7	1177.5
20°	2807.1	2630.8	2194.6	1823.9	1464.6	1255.5	1159.5	1135.7	1140.2	1148.2	1144.8
22.5°	2739.3	2515.5	2046.6	1597.9	1265.7	1149.3	1109.7	1092.8	1107.5	1114.3	1108.6
25°	2687.3	2417.2	1866.9	1397.9	1150.4	1089.4	1071.3	1070.2	1092.8	1101.8	1096.2
27.5°	2639.9	2325.7	1688.3	1245.3	1073.6	1043.1	1037.4	1051.0	1065.7	1074.7	1082.6
30°	2611.6	2255.6	1521.1	1117.6	1035.1	1020.5	1010.3	1022.7	1030.6	1039.7	1035.1
32.5°	2638.7	2205.9	1359.5	1045.3	1003.5	988.8	1002.4	994.5	1008.0	1015.9	1003.5
35°	2723.5	2161.8	1244.2	1006.9	967.3	973.0	975.3	971.9	977.5	970.7	985.4
37.5°	2807.1	2146.0	1138.0	974.1	950.4	950.4	948.1	941.4	952.7	950.4	957.2
40°	2913.3	2156.2	1047.6	939.1	934.6	932.3	923.3	922.1	917.6	918.8	921.0
42.5°	3006.0	2178.8	995.6	916.5	919.9	924.4	907.5	893.9	899.5	888.2	888.2
45°	3104.3	2199.1	949.3	900.7	897.3	896.2	882.6	874.7	870.2	871.3	881.5
47.5°	3259.1	2228.5	914.2	879.2	881.5	864.5	861.1	850.9	855.5	862.2	863.4
50°	3368.8	2290.7	887.1	854.3	862.2	850.9	830.6	826.1	826.1	837.4	835.1
52.5°	3445.6	2377.7	861.1	827.2	830.6	821.6	814.8	804.6	797.8	813.7	821.6
55°	3680.7	2522.3	854.3	804.6	803.5	794.4	782.0	771.8	768.5	770.7	786.5
57.5°	3658.1	2477.1	832.9	765.1	762.8	750.4	737.9	734.5	733.4	735.7	740.2
60°	2969.8	1829.6	743.6	719.9	716.5	714.2	701.8	688.2	681.4	688.2	682.6
62.5°	1965.2	1225.0	655.4	665.6	667.9	662.2	641.9	628.3	630.6	638.5	626.1
65°	965.1	719.9	594.4	621.5	623.8	608.0	588.8	572.9	565.0	571.8	566.2
67.5°	551.5	550.3	544.7	572.9	571.8	556.0	525.5	511.9	498.4	500.6	497.2
70°	467.9	476.9	488.2	505.1	504.0	485.9	449.8	439.6	420.4	418.1	412.5
72.5°	368.4	384.2	409.1	421.5	411.3	388.7	365.0	348.1	331.1	320.9	324.3
75°	273.5	296.1	309.6	317.6	301.7	289.3	270.1	249.7	229.4	220.4	217.0
77.5°	198.9	205.7	218.1	223.8	213.6	201.2	189.9	169.5	150.3	137.9	134.5
80°	139.0	143.5	152.6	152.6	152.6	146.9	132.2	111.9	99.4	88.1	85.9
82.5°	97.2	101.7	110.7	106.2	105.1	98.3	89.3	73.5	59.9	52.0	49.7
85°	33.9	37.3	45.2	54.2	57.6	56.5	50.9	40.7	31.6	26.0	23.7
87.5°	7.9	7.9	9.0	7.9	7.9	9.0	7.9	7.9	7.9	5.7	4.5
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)