

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P636985

Luminaire Tested: GWS-SA4B-830-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-830-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9793.2 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

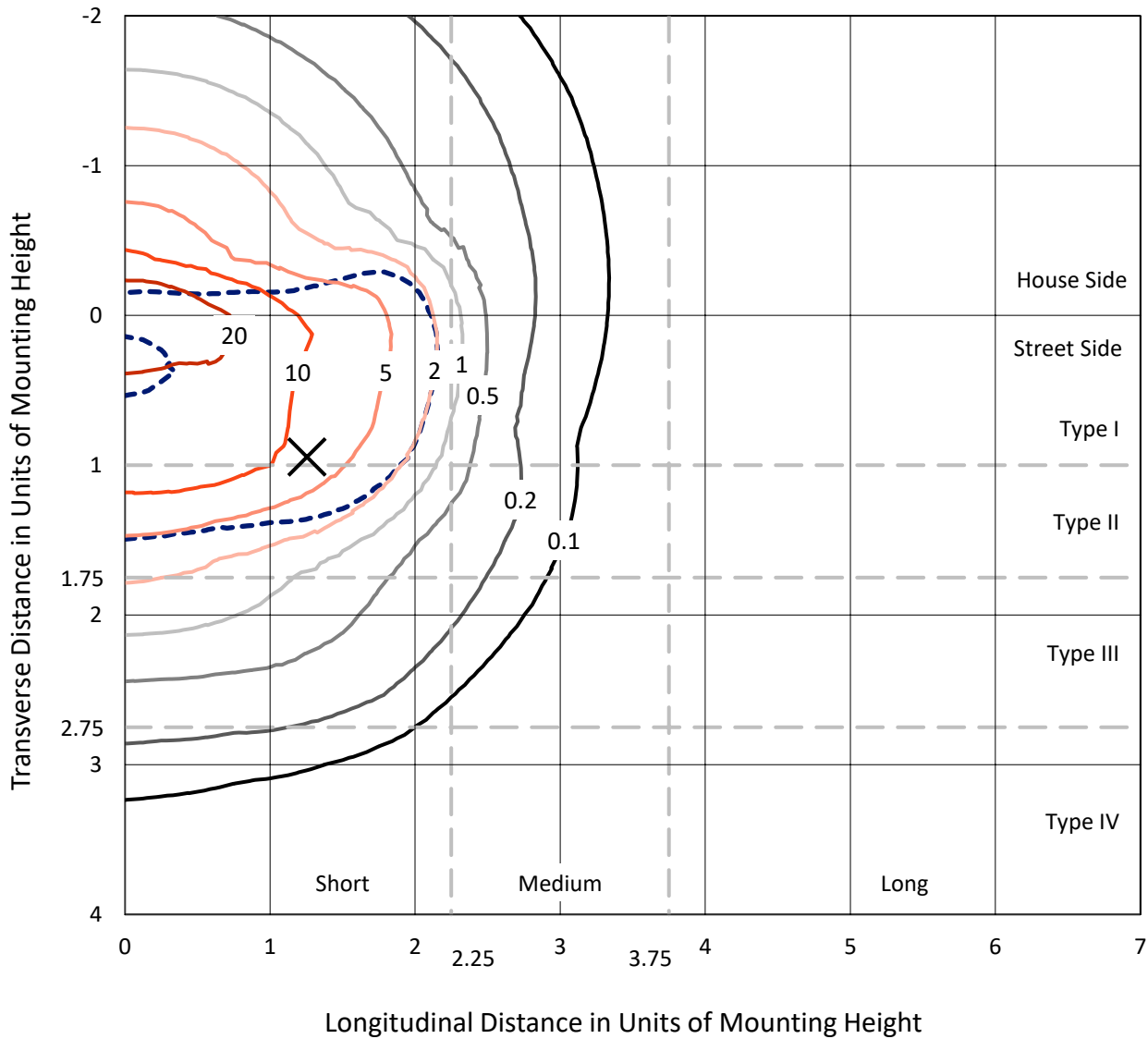
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

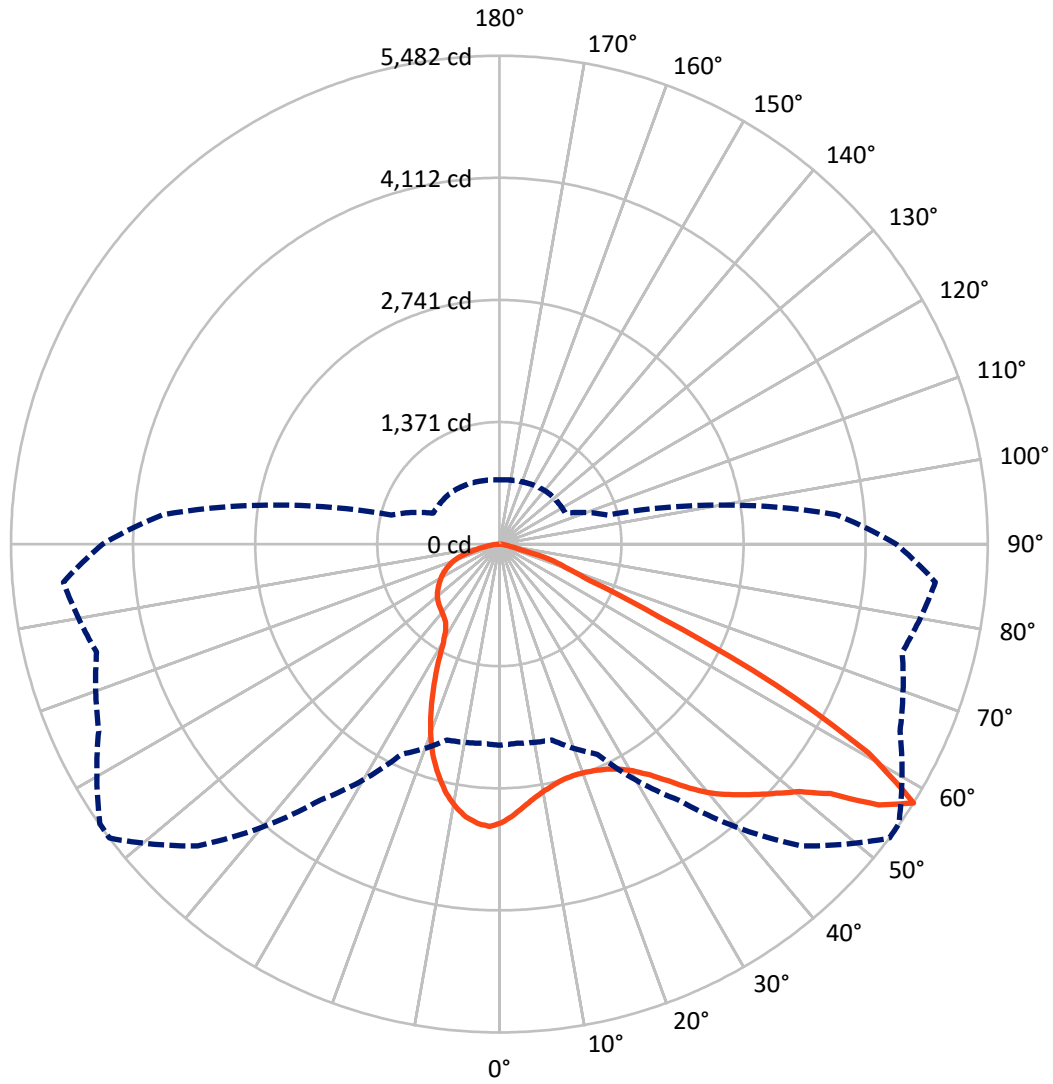
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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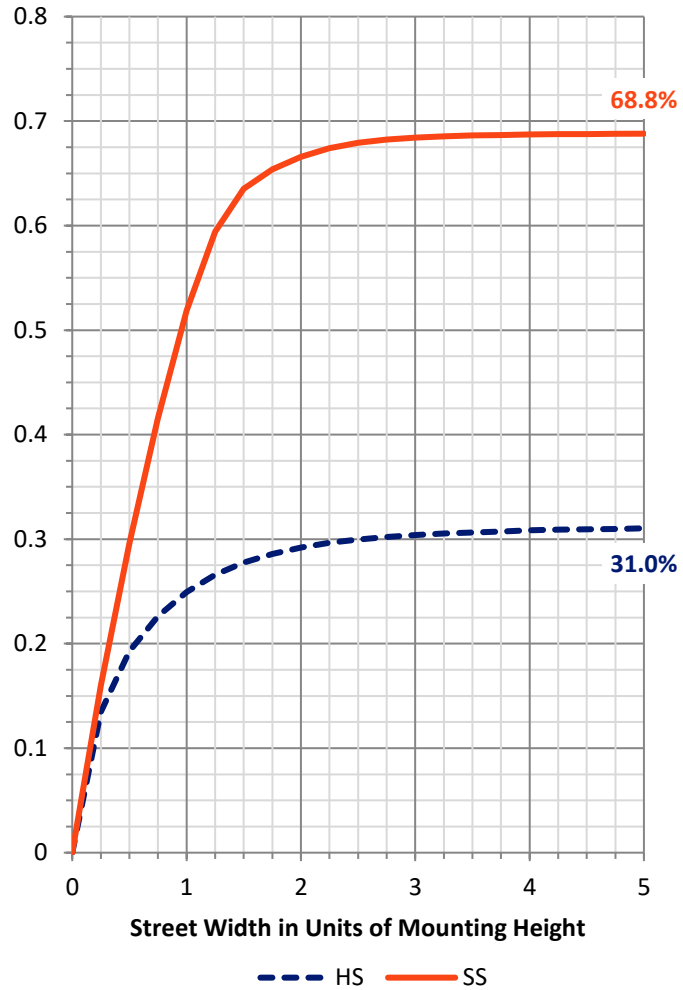
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3062.0	0.0	3062.0
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	6731.2	0.0	6731.2
	% Fixture	68.7	0.0	68.7
Total	Lumens	9793.2	0.0	9793.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	2.9
10°-20°	741.9	7.6
20°-30°	1093.1	11.2
30°-40°	1530.1	15.6
40°-50°	2011.4	20.5
50°-60°	2358.4	24.1
60°-70°	1389.3	14.2
70°-80°	345.6	3.5
80°-90°	40.5	0.4
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°	9793.2	100.0
0°-180°	9793.2	100.0

Coefficient of Utilization



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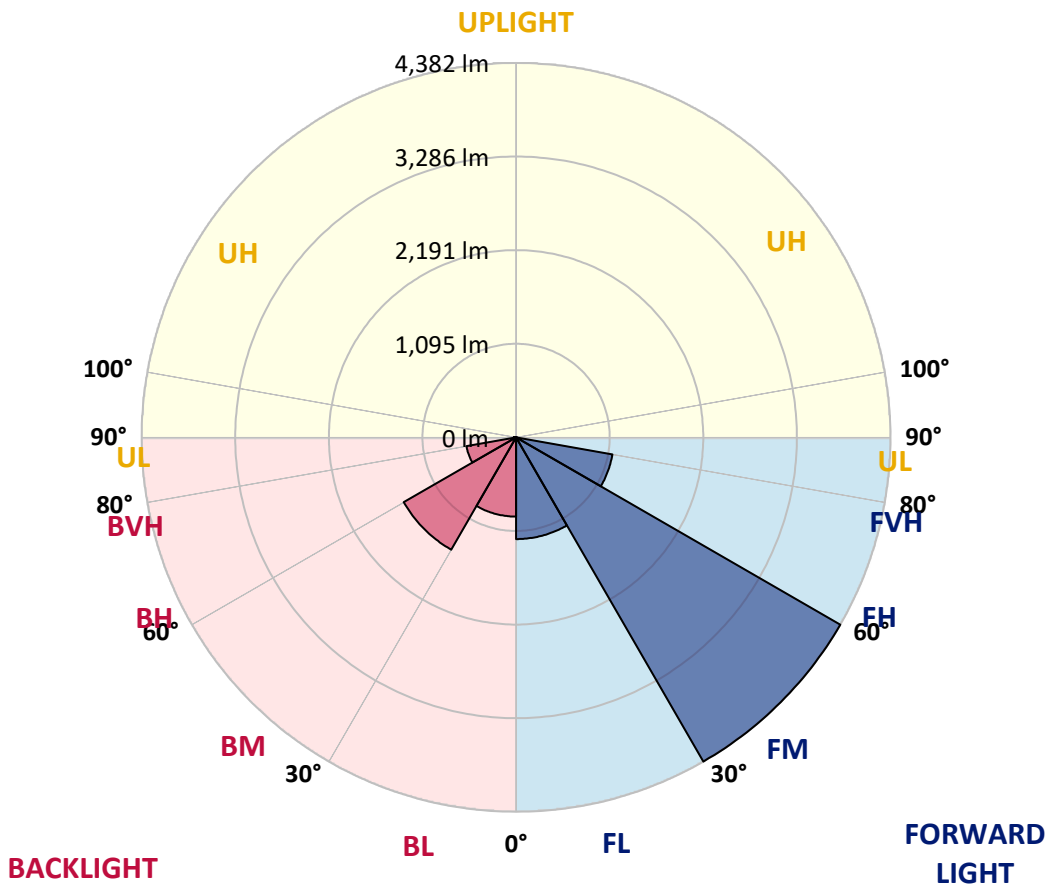
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1190.7	12.2			
FM (30°-60°)	4381.6	44.7			
FH (60°-80°)	1145.4	11.7			G1/1800
FVH (80°-90°)	13.6	0.1			G1/100
BL (0°-30°)	927.2	9.5	B2/1000		
BM (30°-60°)	1518.3	15.5	B2/2500		
BH (60°-80°)	589.5	6.0	B2/1000		G2/1000
BVH (80°-90°)	27.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2
2.5°	2947.5	2955.8	2957.4	2983.0	2984.6	3021.7	3046.5	3041.5	3067.1	3098.4	3123.1
5°	2806.6	2807.4	2815.7	2846.2	2862.6	2911.3	2952.5	2952.5	3001.9	3066.2	3121.5
7.5°	2690.4	2689.6	2697.0	2730.8	2758.0	2816.5	2872.5	2879.1	2948.4	3042.3	3132.2
10°	2582.4	2588.2	2596.4	2637.6	2672.2	2744.8	2811.5	2822.3	2909.6	3025.8	3147.0
12.5°	2513.2	2514.0	2526.3	2572.5	2617.0	2694.5	2764.6	2777.7	2878.3	3010.2	3157.7
15°	2468.7	2469.5	2482.7	2533.8	2585.7	2664.0	2735.7	2750.5	2860.2	3007.7	3178.3
17.5°	2448.9	2448.0	2460.4	2511.5	2568.4	2650.0	2726.6	2744.8	2868.4	3026.7	3214.6
20°	2448.9	2449.7	2456.3	2502.4	2560.1	2646.7	2735.7	2758.0	2900.6	3069.5	3270.7
22.5°	2483.5	2486.8	2490.1	2521.4	2566.7	2651.6	2759.6	2789.3	2969.8	3141.2	3344.0
25°	2551.1	2551.9	2555.2	2580.8	2601.4	2665.6	2799.2	2843.7	3077.8	3245.9	3436.3
27.5°	2641.7	2653.3	2656.6	2673.1	2673.1	2700.3	2861.0	2925.3	3223.7	3396.8	3554.2
30°	2768.7	2772.8	2778.6	2796.7	2776.9	2765.4	2951.7	3034.1	3392.6	3578.9	3696.0
32.5°	2880.0	2889.0	2920.3	2950.0	2914.6	2878.3	3085.2	3182.5	3555.0	3768.5	3846.8
35°	2974.7	2997.0	3057.2	3123.1	3098.4	3062.1	3262.4	3363.8	3688.6	3904.5	3980.3
37.5°	3089.3	3106.6	3189.1	3296.2	3318.5	3301.2	3478.4	3550.9	3777.6	3939.1	4052.9
40°	3205.5	3231.9	3338.2	3486.6	3571.5	3583.9	3677.8	3726.5	3808.1	3871.5	4038.9
42.5°	3324.2	3369.6	3515.5	3688.6	3839.4	3867.4	3846.0	3866.6	3798.2	3778.4	3973.7
45°	3469.3	3522.9	3687.7	3908.6	4107.3	4151.0	4010.8	3991.9	3796.5	3743.0	3933.4
47.5°	3640.7	3694.3	3851.8	4108.9	4362.8	4394.9	4179.8	4145.2	3854.2	3797.4	3987.8
50°	3792.4	3829.5	3970.4	4258.1	4601.0	4620.0	4366.1	4324.1	3997.6	3948.2	4157.6
52.5°	3638.3	3634.2	3782.5	4136.9	4724.6	4953.0	4652.9	4612.5	4274.6	4198.8	4420.5
55°	3086.8	3039.9	3172.6	3521.2	4379.3	5248.9	5167.3	5086.5	4643.9	4451.0	4666.9
57.5°	2256.8	2243.6	2275.8	2603.0	3508.0	4790.6	5482.1	5474.7	4962.9	4681.8	4912.6
60°	1764.7	1745.0	1659.2	1668.3	2391.2	3742.1	4757.6	4976.0	5160.7	4820.3	5084.0
62.5°	1566.9	1552.1	1507.6	1384.8	1424.3	2509.0	3487.4	3687.7	4509.5	4257.3	4366.9
65°	1297.4	1293.3	1330.4	1325.4	1193.5	1385.6	1968.3	2170.3	2835.4	2870.9	2835.4
67.5°	943.0	935.5	1029.5	1215.0	1149.0	1046.0	1097.1	1167.1	1454.0	1305.6	1175.4
70°	613.2	602.5	656.9	877.8	1028.7	911.6	790.5	778.9	799.5	497.0	537.4
72.5°	411.3	398.9	398.1	483.0	621.5	614.1	612.4	606.7	541.5	392.3	435.2
75°	229.1	219.3	216.8	208.5	222.5	226.7	241.5	249.8	270.4	297.6	329.7
77.5°	38.7	37.9	47.8	61.0	84.1	108.0	133.5	140.9	173.9	206.1	226.7
80°	21.4	22.3	28.8	35.4	47.0	64.3	82.4	87.4	107.2	124.5	140.9
82.5°	11.5	11.5	14.8	19.0	25.6	33.8	44.5	48.6	61.8	72.5	84.1
85°	4.1	4.1	5.8	7.4	10.7	14.0	17.3	19.8	27.2	37.1	42.0
87.5°	0.0	0.0	0.0	0.0	0.8	1.6	3.3	3.3	4.1	7.4	10.7
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°	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2	3127.2
2.5°	3143.7	3121.5	3152.0	3166.0	3170.9	3174.2	3152.8	3137.9	3133.0	3117.3	3108.3
5°	3155.3	3140.4	3169.3	3169.3	3148.7	3127.2	3083.5	3053.1	3031.6	3006.1	3001.9
7.5°	3175.0	3164.3	3180.0	3147.8	3095.9	3038.2	2962.4	2903.0	2855.2	2823.9	2824.7
10°	3201.4	3188.2	3175.9	3104.2	3009.4	2903.0	2786.8	2700.3	2621.1	2584.9	2565.1
12.5°	3218.7	3199.8	3147.8	3029.1	2889.8	2747.3	2583.2	2454.6	2340.1	2288.1	2284.0
15°	3240.2	3205.5	3101.7	2931.9	2738.2	2543.7	2332.6	2153.8	1998.8	1918.0	1913.9
17.5°	3268.2	3211.3	3046.5	2820.6	2578.3	2291.4	2026.0	1801.0	1636.2	1573.5	1584.2
20°	3307.7	3217.9	2983.8	2697.0	2379.6	2004.6	1674.1	1467.2	1403.7	1399.6	1391.3
22.5°	3352.3	3222.0	2914.6	2558.5	2138.9	1698.8	1383.1	1294.9	1294.1	1314.7	1319.6
25°	3402.5	3225.3	2836.3	2396.9	1878.5	1393.8	1223.2	1196.8	1217.4	1256.2	1261.1
27.5°	3466.8	3231.9	2741.5	2219.7	1601.5	1204.2	1135.0	1128.4	1153.1	1189.4	1187.8
30°	3561.6	3255.8	2640.9	2016.1	1317.2	1114.4	1081.4	1082.3	1092.1	1109.5	1111.9
32.5°	3658.1	3292.9	2542.8	1787.0	1154.0	1063.3	1048.5	1046.8	1046.8	1054.2	1055.9
35°	3749.5	3334.9	2436.5	1548.0	1074.8	1033.6	1023.7	1018.8	1016.3	1014.7	1012.2
37.5°	3800.7	3355.6	2332.6	1312.2	1032.8	1013.8	1003.9	997.4	988.3	981.7	980.0
40°	3778.4	3331.6	2212.3	1135.8	1007.2	994.9	983.3	974.3	961.9	956.1	952.8
42.5°	3704.2	3257.5	2081.3	1052.6	986.6	974.3	960.3	945.4	937.2	932.2	931.4
45°	3625.9	3167.6	1923.0	1003.9	966.9	952.0	935.5	919.0	910.0	907.5	906.7
47.5°	3623.4	3123.1	1754.8	965.2	943.0	928.1	907.5	891.0	881.1	877.8	874.5
50°	3732.2	3168.4	1565.3	931.4	918.2	902.6	879.5	861.3	849.0	844.9	844.0
52.5°	3958.1	3339.1	1395.5	897.6	885.3	867.1	848.2	830.0	815.2	807.8	806.9
55°	4202.1	3555.8	1290.0	863.0	846.5	830.9	813.5	793.8	777.3	765.7	764.1
57.5°	4454.3	3792.4	1257.8	819.3	806.9	796.2	775.6	754.2	735.2	724.5	722.0
60°	4662.0	3996.0	1318.0	773.2	766.6	752.5	733.6	713.0	699.8	691.6	689.9
62.5°	3902.9	3253.3	1064.1	722.9	722.9	708.0	686.6	671.8	662.7	656.9	655.3
65°	2476.9	2014.5	726.2	672.6	671.8	652.0	633.9	624.0	619.8	610.8	609.1
67.5°	1079.0	920.7	620.7	621.5	618.2	596.8	578.6	571.2	563.0	553.1	552.3
70°	559.7	570.4	555.5	564.6	558.8	533.3	516.0	504.4	487.1	477.2	478.1
72.5°	451.7	463.2	479.7	493.7	481.4	460.8	433.6	419.5	397.3	386.6	387.4
75°	344.5	356.9	372.6	387.4	377.5	352.0	334.6	320.6	295.1	282.7	285.2
77.5°	237.4	244.0	262.9	262.1	258.8	251.4	225.8	209.4	183.0	168.1	169.8
80°	147.5	151.7	160.7	164.9	163.2	153.3	132.7	120.3	104.7	95.6	96.4
82.5°	89.0	91.5	99.7	100.6	99.7	92.3	76.7	67.6	57.7	52.8	52.8
85°	45.3	47.0	51.9	51.9	47.0	39.6	35.4	31.3	25.6	23.1	23.1
87.5°	12.4	12.4	15.7	13.2	10.7	9.9	4.9	4.1	1.6	0.8	0.8
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)