

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: P637674

Luminaire Tested: GWS-SA4D-730-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22315.2 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 162.1
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

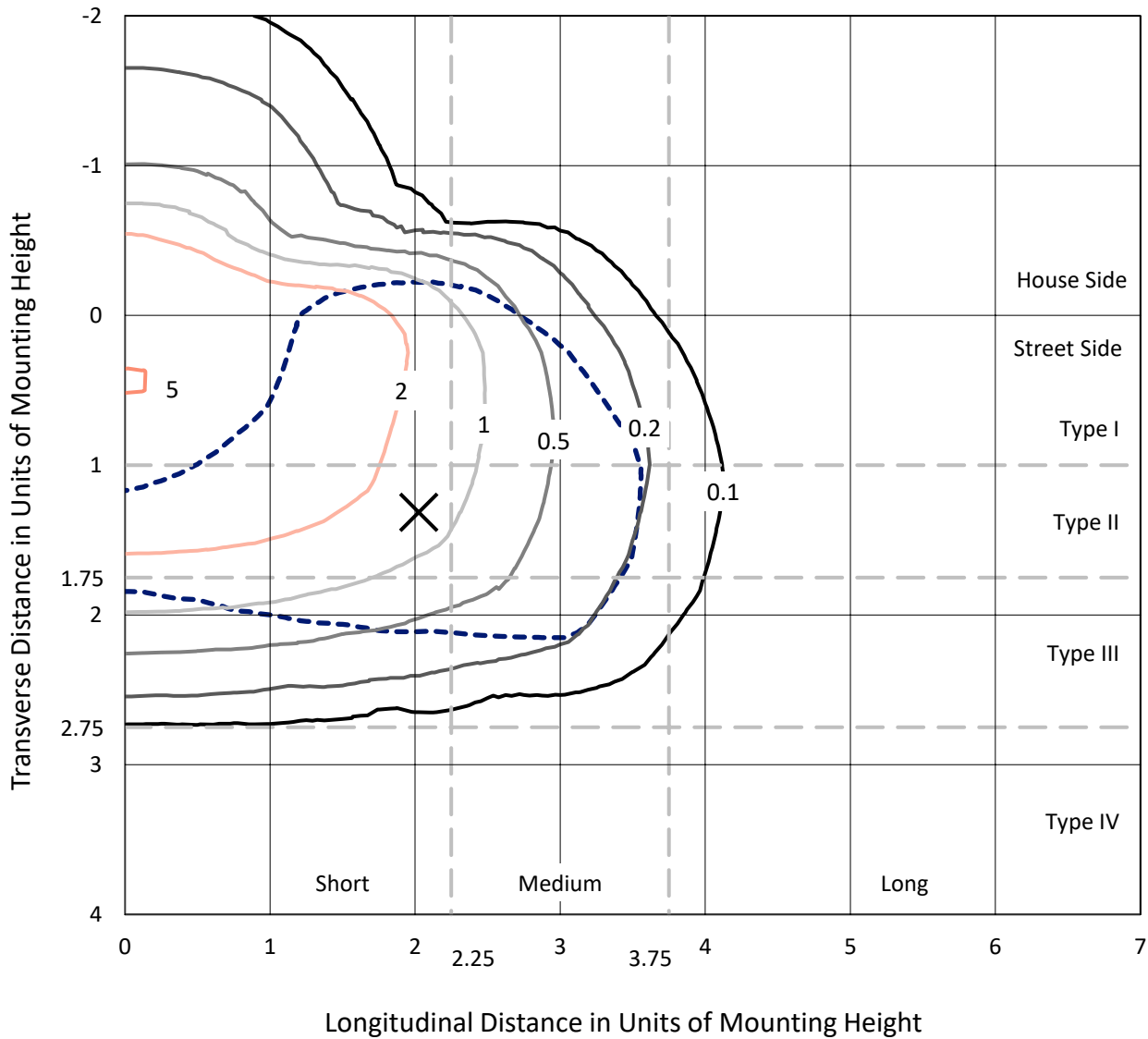


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Iso-Footcandle Lines of Horizontal Illumination

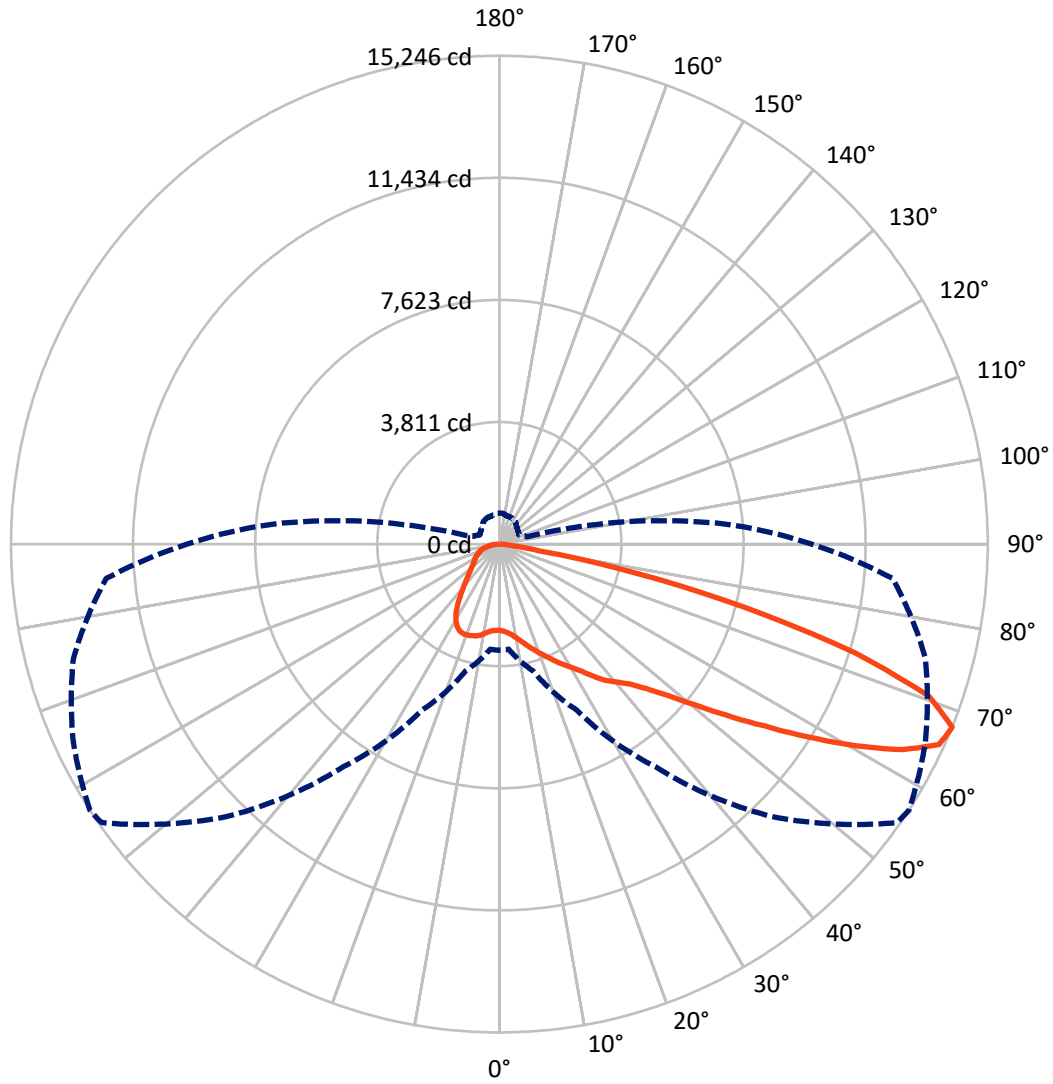
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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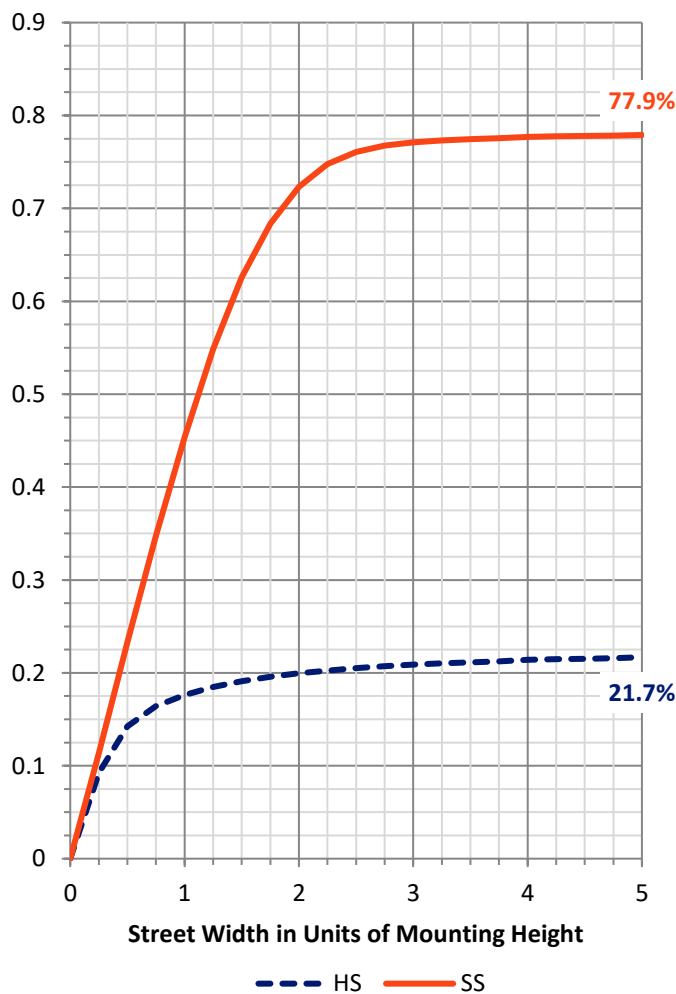
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4906.3	0.0	4906.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	17408.9	0.0	17408.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	22315.2	0.0	22315.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.7	1.2
10°-20°	882.8	4.0
20°-30°	1573.9	7.1
30°-40°	2288.3	10.3
40°-50°	3311.9	14.8
50°-60°	5183.0	23.2
60°-70°	6046.3	27.1
70°-80°	2524.0	11.3
80°-90°	238.2	1.1
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°	22315.2	100.0
0°-180°	22315.2	100.0

Coefficient of Utilization



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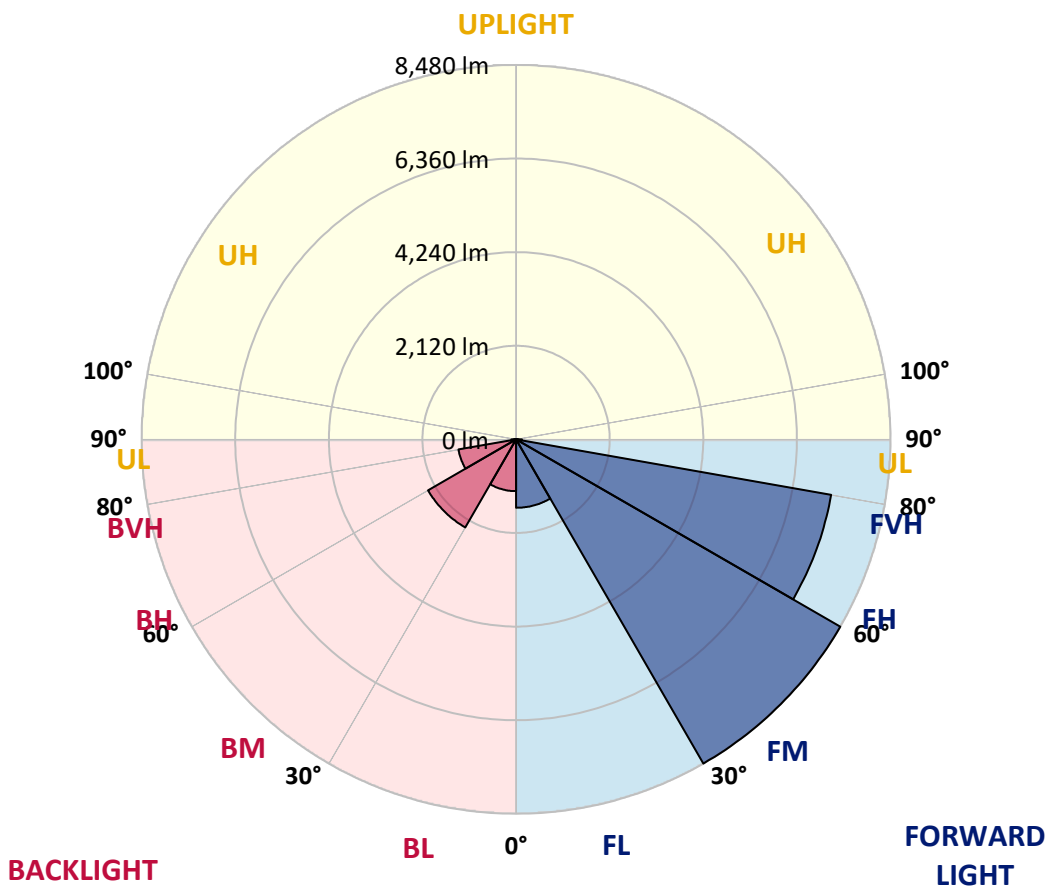
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1550.0	6.9			
FM (30°-60°)	8480.1	38.0			
FH (60°-80°)	7246.1	32.5			G3/7500
FVH (80°-90°)	132.7	0.6			G2/225
BL (0°-30°)	1173.4	5.3	B3/2500		
BM (30°-60°)	2303.1	10.3	B2/2500		
BH (60°-80°)	1324.2	5.9	B3/2500		G3/2500
BVH (80°-90°)	105.5	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8
2.5°	2727.2	2724.0	2722.4	2732.0	2728.8	2727.2	2727.2	2725.6	2722.4	2709.6	2692.0
5°	2802.3	2795.9	2789.5	2797.5	2791.1	2784.7	2783.1	2779.9	2768.8	2749.6	2722.4
7.5°	2880.7	2874.3	2875.9	2880.7	2875.9	2872.7	2867.9	2864.7	2847.1	2816.7	2779.9
10°	2991.0	2991.0	2994.2	2999.0	3000.6	2995.8	2986.2	2981.4	2960.6	2922.2	2871.1
12.5°	3150.8	3147.6	3147.6	3144.4	3149.2	3144.4	3134.8	3126.8	3101.3	3051.7	2978.2
15°	3361.8	3349.0	3337.9	3317.1	3310.7	3293.1	3296.3	3291.5	3267.5	3200.4	3107.7
17.5°	3587.2	3585.6	3568.1	3526.5	3484.9	3456.2	3462.5	3460.9	3448.2	3357.0	3238.7
20°	3785.5	3793.5	3777.5	3745.5	3689.5	3635.2	3632.0	3640.0	3624.0	3532.9	3368.2
22.5°	4007.7	4001.3	3985.3	3943.7	3902.2	3844.6	3825.4	3819.0	3812.6	3708.7	3500.9
25°	4218.7	4237.9	4217.1	4178.7	4114.8	4052.4	4036.4	4042.8	4025.3	3887.8	3643.2
27.5°	4485.6	4493.6	4480.8	4428.1	4373.7	4285.8	4255.4	4255.4	4249.1	4055.6	3755.1
30°	4770.2	4792.6	4770.2	4727.0	4671.1	4544.8	4479.3	4472.9	4453.7	4228.3	3886.2
32.5°	5056.3	5072.3	5056.3	5014.8	4950.8	4840.5	4746.2	4731.8	4706.3	4416.9	4020.5
35°	5310.5	5324.9	5321.7	5331.3	5278.5	5139.5	5081.9	5075.5	5008.4	4663.1	4202.7
37.5°	5588.7	5606.3	5582.3	5601.5	5580.7	5449.6	5432.0	5400.0	5304.1	4894.9	4394.5
40°	5905.2	5921.2	5882.8	5890.8	5866.8	5793.3	5703.8	5660.6	5518.3	5145.9	4696.7
42.5°	6244.1	6280.9	6298.4	6284.1	6228.1	6186.5	6029.9	5975.5	5857.2	5598.3	5193.8
45°	6734.9	6789.2	6814.8	6778.0	6754.0	6694.9	6503.1	6437.5	6375.2	6236.1	5887.6
47.5°	7264.0	7313.6	7395.1	7411.1	7430.2	7385.5	7115.3	7051.4	7062.6	7046.6	6741.3
50°	7686.0	7727.6	7911.4	8108.1	8271.1	8283.9	7938.6	7869.9	7930.6	7981.8	7769.2
52.5°	7993.0	8029.7	8272.7	8678.7	9048.0	9321.4	8948.9	8870.6	8920.1	9035.2	8937.7
55°	8242.3	8293.5	8547.7	9171.1	9917.7	10349.3	10111.1	10012.0	9991.2	10133.5	10189.4
57.5°	8373.4	8389.4	8745.9	9556.4	10555.5	11358.0	11461.9	11350.0	11151.8	11230.1	11521.0
60°	8074.5	8101.7	8589.2	9655.5	11059.1	12358.7	12879.8	12787.1	12365.1	12408.3	12729.6
62.5°	7248.0	7286.4	7873.1	9183.9	11100.6	13026.9	14189.1	14129.9	13564.0	13330.6	13426.6
65°	5814.1	5826.9	6434.3	8016.9	10274.1	13110.0	15101.9	15087.5	14401.7	13855.0	13444.1
67.5°	3315.5	3293.1	4105.2	5718.2	8478.9	12029.4	15161.0	15245.8	14673.5	13768.7	12325.1
70°	1437.1	1440.3	1814.4	2821.5	5488.0	9722.6	14082.0	14227.5	13887.0	12331.5	9805.8
72.5°	665.0	674.6	836.1	1221.3	2343.5	6031.5	11482.7	11613.8	11321.2	9869.7	7134.5
75°	470.0	478.0	557.9	700.2	1077.5	2349.9	7681.2	7956.2	8098.5	7382.3	4701.5
77.5°	356.5	367.7	407.6	486.0	665.0	832.9	3675.2	4330.6	5158.7	4592.8	2421.9
80°	227.0	227.0	270.2	324.5	406.0	433.2	1061.5	1258.1	2524.2	1892.7	951.2
82.5°	153.5	158.3	183.8	206.2	233.4	246.2	455.6	486.0	729.0	644.2	391.7
85°	81.5	84.7	95.9	94.3	111.9	97.5	191.8	190.2	267.0	292.5	148.7
87.5°	0.0	0.0	1.6	1.6	3.2	4.8	20.8	22.4	56.0	89.5	49.6
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°	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8	2688.8
2.5°	2701.6	2682.4	2692.0	2688.8	2698.4	2698.4	2680.8	2676.0	2677.6	2658.5	2652.1
5°	2725.6	2703.2	2708.0	2701.6	2711.2	2719.2	2711.2	2711.2	2720.8	2706.4	2698.4
7.5°	2779.9	2754.4	2754.4	2746.4	2757.6	2764.0	2757.6	2767.2	2784.7	2770.4	2762.4
10°	2866.3	2835.9	2837.5	2827.9	2832.7	2829.5	2803.9	2795.9	2800.7	2787.9	2781.5
12.5°	2978.2	2936.6	2936.6	2917.4	2906.2	2872.7	2819.9	2800.7	2803.9	2792.7	2787.9
15°	3085.3	3046.9	3038.9	3000.6	2949.4	2887.1	2839.1	2826.3	2829.5	2818.3	2810.3
17.5°	3211.6	3162.0	3133.2	3062.9	2968.6	2904.6	2856.7	2826.3	2800.7	2775.2	2768.8
20°	3328.3	3265.9	3213.2	3104.5	2989.4	2901.4	2811.9	2736.8	2674.4	2640.9	2632.9
22.5°	3448.2	3368.2	3275.5	3133.2	2987.8	2843.9	2679.2	2565.7	2473.0	2423.5	2433.1
25°	3561.7	3460.9	3334.7	3160.4	2936.6	2716.0	2492.2	2322.8	2217.2	2178.9	2167.7
27.5°	3656.0	3531.3	3389.0	3147.6	2831.1	2532.2	2236.4	2047.8	1945.5	1902.3	1891.1
30°	3761.5	3620.8	3467.3	3088.5	2664.9	2274.8	1947.1	1793.6	1720.1	1678.5	1680.1
32.5°	3883.0	3735.9	3577.6	2975.0	2452.2	1996.6	1708.9	1603.4	1544.2	1502.7	1496.3
35°	4046.0	3900.6	3651.2	2803.9	2182.1	1740.9	1545.8	1459.5	1386.0	1331.6	1320.4
37.5°	4247.5	4148.3	3659.2	2575.3	1892.7	1565.0	1429.1	1336.4	1246.9	1175.0	1167.0
40°	4592.8	4479.3	3593.6	2289.2	1646.5	1451.5	1331.6	1224.5	1120.6	1040.7	1029.5
42.5°	5085.1	4851.7	3453.0	1966.3	1461.1	1362.0	1238.9	1103.0	997.5	941.6	933.6
45°	5711.8	5267.4	3241.9	1662.5	1323.6	1274.1	1141.4	999.1	943.2	903.2	895.2
47.5°	6479.1	5751.7	2999.0	1425.9	1216.5	1194.1	1042.3	964.0	914.4	880.8	872.8
50°	7396.7	6368.8	2799.1	1240.5	1120.6	1101.4	1010.3	943.2	903.2	876.0	869.6
52.5°	8443.8	7054.6	2701.6	1107.8	1037.5	1018.3	999.1	938.4	904.8	884.0	876.0
55°	9530.8	7777.1	2610.5	1005.5	967.1	978.3	1000.7	954.4	928.8	901.6	893.6
57.5°	10581.1	8454.9	2386.7	925.6	916.0	959.2	1008.7	970.3	940.0	912.8	903.2
60°	11305.2	8825.8	2007.8	861.6	877.6	935.2	987.9	946.4	908.0	896.8	892.0
62.5°	11500.3	8781.1	1558.6	796.1	831.3	882.4	933.6	906.4	866.4	884.0	885.6
65°	11044.7	8301.5	1170.2	732.2	770.5	813.7	877.6	866.4	852.0	900.0	901.6
67.5°	9754.6	7123.3	892.0	676.2	708.2	760.9	860.0	906.4	909.6	970.3	964.0
70°	7380.7	5321.7	698.6	623.5	660.2	760.9	916.0	936.8	898.4	954.4	941.6
72.5°	5102.7	3512.1	594.7	577.1	601.1	725.8	914.4	914.4	872.8	872.8	848.9
75°	3170.0	2065.4	517.9	517.9	517.9	634.6	888.8	842.5	768.9	735.4	716.2
77.5°	1565.0	1003.9	434.8	450.8	433.2	530.7	725.8	689.0	644.2	609.1	596.3
80°	668.2	502.0	351.7	369.3	348.5	399.6	575.5	567.5	524.3	478.0	463.6
82.5°	306.9	259.0	281.4	289.3	254.2	300.5	420.4	420.4	396.5	332.5	308.5
85°	131.1	137.5	195.0	195.0	159.9	169.5	225.4	214.2	191.8	156.7	143.9
87.5°	44.8	67.1	99.1	86.3	33.6	14.4	8.0	3.2	0.0	0.0	0.0
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)