

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: P642192

Luminaire Tested: GWS-SA6C-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642192
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27765.6 lumens
Efficiency: N/A
Efficacy: 146.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

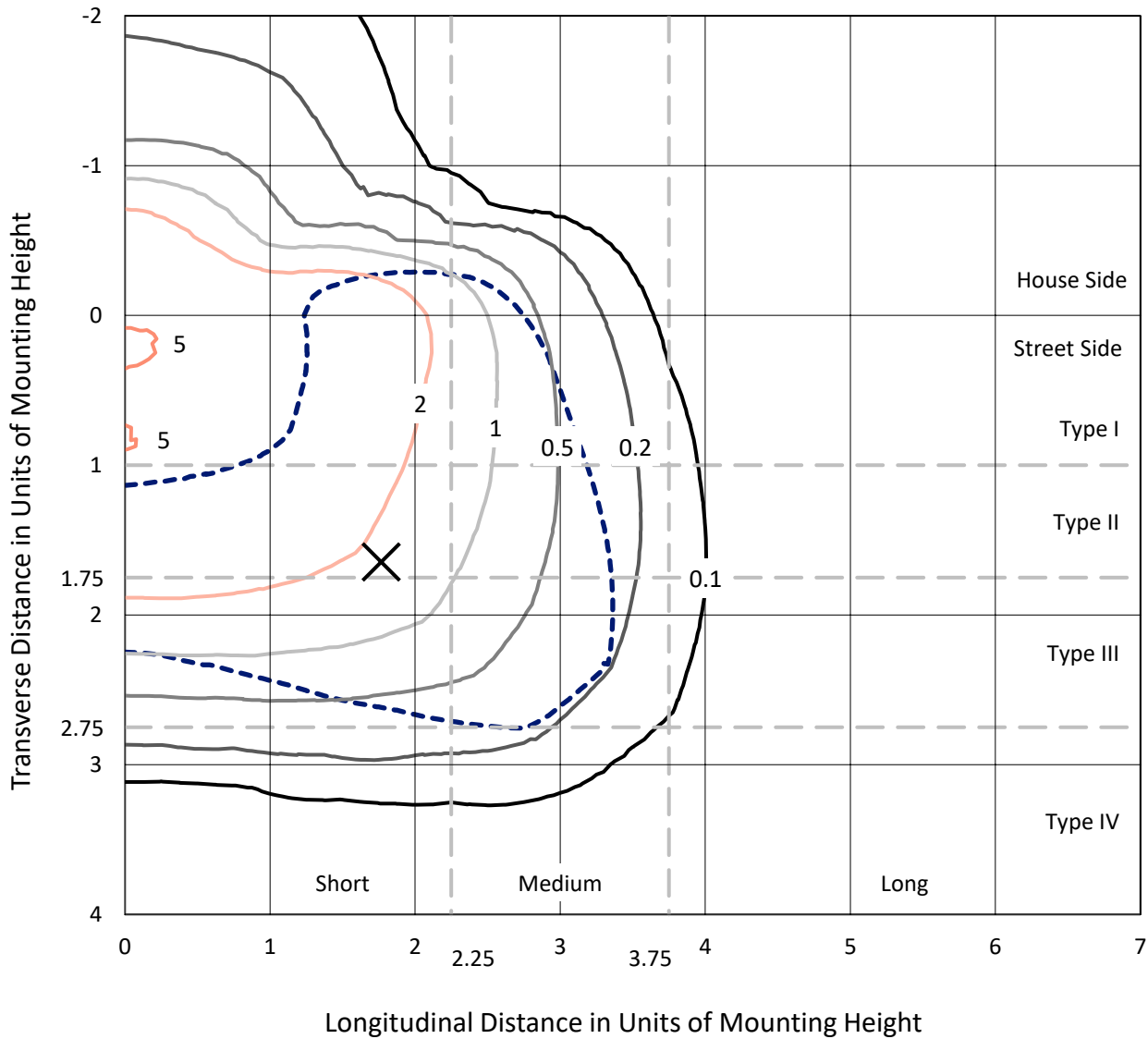
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

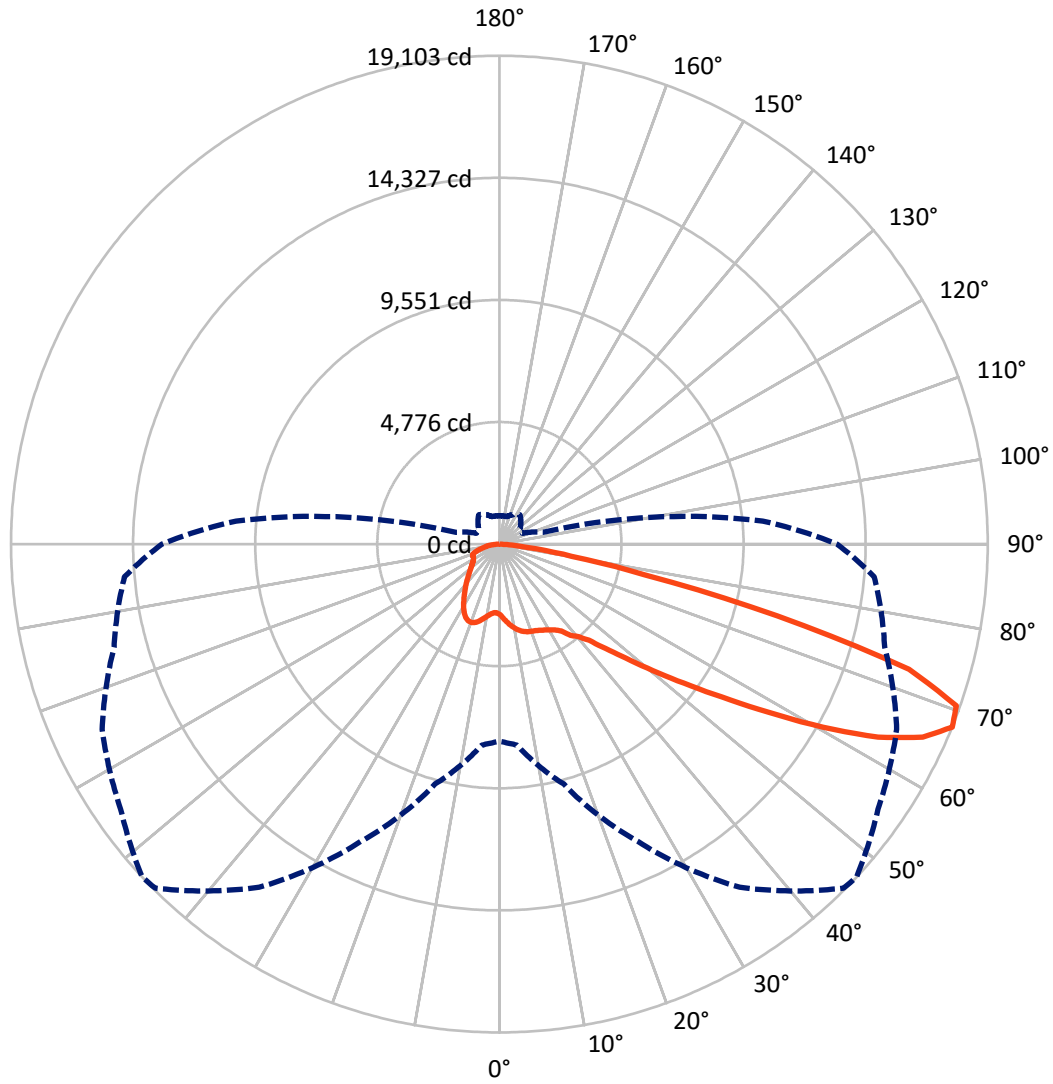
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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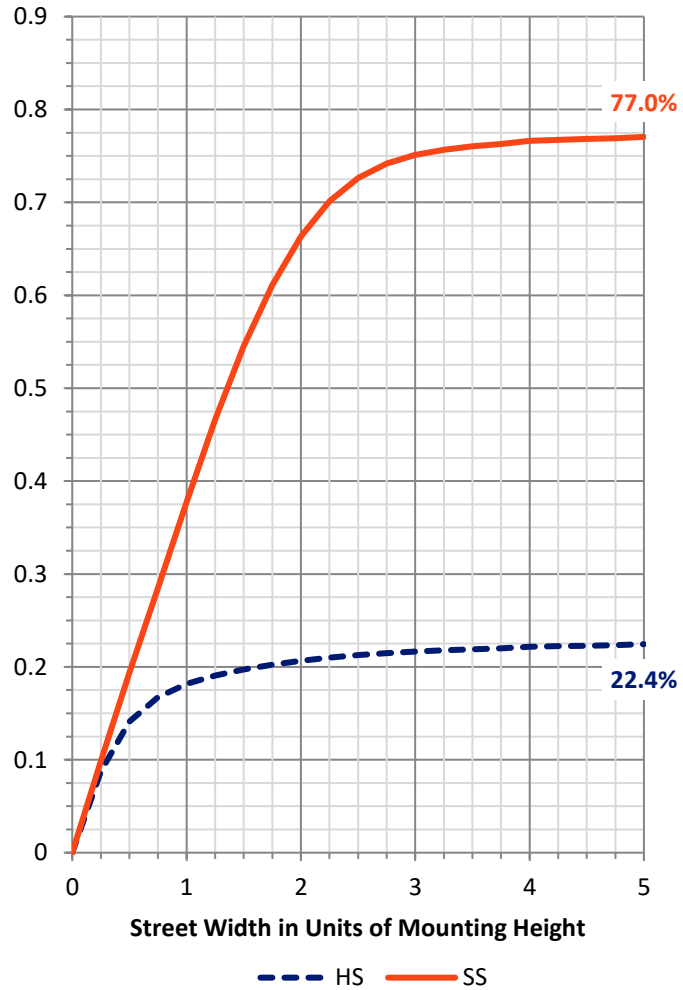
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6328.0	0.0	6328.0
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	21437.6	0.0	21437.6
	% Fixture	77.2	0.0	77.2
Total	Lumens	27765.6	0.0	27765.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	1.0
10°-20°	937.2	3.4
20°-30°	1593.0	5.7
30°-40°	2333.6	8.4
40°-50°	3555.5	12.8
50°-60°	6361.5	22.9
60°-70°	8488.7	30.6
70°-80°	3838.8	13.8
80°-90°	376.1	1.4
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°	27765.6	100.0
0°-180°	27765.6	100.0

Coefficient of Utilization



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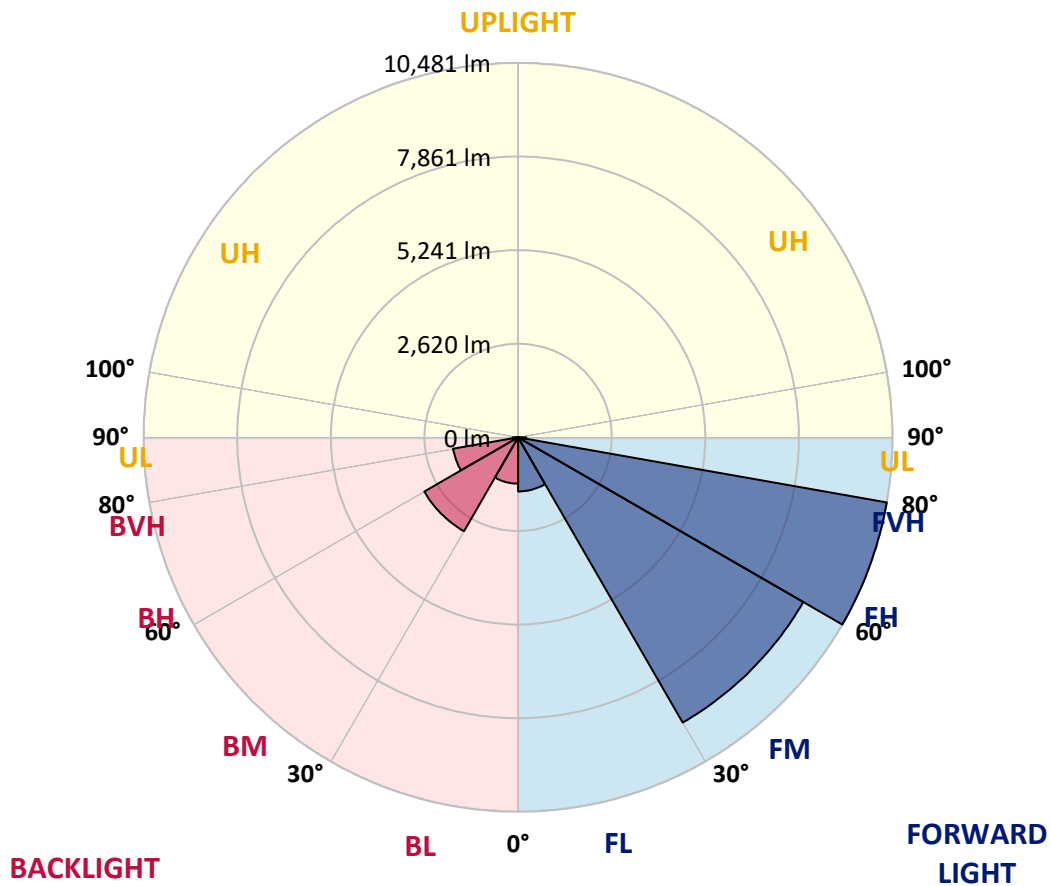
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.2	5.5			
FM (30°-60°)	9218.5	33.2			
FH (60°-80°)	10481.2	37.7			G4/12000
FVH (80°-90°)	223.7	0.8			G2/225
BL (0°-30°)	1297.3	4.7	B3/2500		
BM (30°-60°)	3032.0	10.9	B3/5000		
BH (60°-80°)	1846.3	6.6	B3/2500		G3/2500
BVH (80°-90°)	152.4	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4
2.5°	2935.1	2945.2	2943.2	2927.1	2917.1	2899.0	2901.0	2872.9	2830.7	2802.6	2770.5
5°	3194.1	3210.2	3190.1	3164.0	3123.9	3065.6	3059.6	2995.4	2915.1	2858.9	2800.6
7.5°	3419.0	3429.0	3404.9	3360.8	3302.5	3224.2	3210.2	3133.9	3033.5	2945.2	2860.9
10°	3593.6	3605.7	3573.6	3515.3	3439.1	3360.8	3350.7	3272.4	3166.0	3061.6	2955.2
12.5°	3742.2	3746.2	3712.1	3633.8	3551.5	3471.2	3461.1	3388.9	3290.5	3184.1	3067.6
15°	3828.5	3830.5	3788.4	3702.1	3623.8	3553.5	3547.5	3485.2	3394.9	3294.5	3170.0
17.5°	3822.5	3826.5	3796.4	3720.1	3651.9	3609.7	3603.7	3563.5	3493.3	3402.9	3278.4
20°	3748.2	3752.2	3732.2	3682.0	3645.8	3633.8	3635.8	3623.8	3581.6	3507.3	3380.8
22.5°	3690.0	3696.0	3678.0	3641.8	3637.8	3665.9	3671.9	3678.0	3657.9	3591.6	3469.2
25°	3718.1	3728.2	3700.0	3649.9	3657.9	3720.1	3732.2	3752.2	3736.2	3680.0	3573.6
27.5°	3912.9	3918.9	3846.6	3744.2	3720.1	3786.4	3804.4	3836.6	3824.5	3772.3	3690.0
30°	4364.6	4360.6	4206.0	3955.0	3854.6	3880.7	3894.8	3941.0	3945.0	3910.8	3832.6
32.5°	5001.0	4980.9	4742.0	4342.5	4051.4	3987.1	4003.2	4065.4	4111.6	4075.5	3969.1
35°	5673.5	5655.5	5392.5	4924.7	4414.8	4191.9	4173.8	4222.0	4292.3	4191.9	4039.3
37.5°	6314.0	6285.9	6016.8	5438.6	4862.5	4551.3	4525.2	4477.0	4434.8	4242.1	4125.7
40°	7024.7	6992.5	6757.7	6103.2	5356.3	4826.3	4760.1	4569.3	4531.2	4408.7	4350.5
42.5°	7783.6	7783.6	7588.8	6944.4	5952.6	5219.8	5133.5	4846.4	4886.6	4806.2	4738.0
45°	8542.4	8564.5	8409.9	7791.6	6749.6	5962.6	5824.1	5416.6	5512.9	5476.8	5442.7
47.5°	9188.9	9231.0	9200.9	8656.9	7725.3	6866.1	6655.3	6231.7	6438.4	6524.8	6621.1
50°	9885.5	9931.7	9901.6	9686.8	8867.7	7960.2	7771.5	7333.8	7689.2	7948.2	8263.4
52.5°	10919.5	10985.7	10734.8	10652.4	10254.9	9202.9	9034.3	8536.4	9180.9	9610.5	10313.2
55°	11792.8	11790.8	11702.4	11891.1	11744.6	10722.7	10536.0	10084.3	10907.4	11363.1	12391.0
57.5°	12198.3	12246.5	12549.6	13083.7	13376.8	12579.8	12401.1	11939.3	12760.4	12997.3	14107.6
60°	12407.1	12467.3	13053.6	14109.6	14898.6	14607.5	14537.2	13949.0	14410.7	14382.6	15555.1
62.5°	12114.0	12234.4	13176.0	14579.4	15984.7	16645.2	16623.1	15733.7	15814.0	15539.0	16452.5
65°	10768.9	10899.4	12377.0	14344.5	16605.0	18195.1	18201.1	17349.9	16892.1	16101.1	16301.9
67.5°	7701.2	7887.9	9714.9	12834.7	16386.2	19032.3	19102.5	18082.7	17145.1	15603.2	14719.9
70°	4197.9	4334.5	5765.9	9329.4	14414.7	18831.5	18962.0	17729.3	16028.9	13497.2	11331.0
72.5°	1907.2	1951.4	2682.2	5119.4	9847.4	16209.5	16755.6	15822.1	13164.0	9969.9	7205.4
75°	873.3	893.4	1168.4	2449.3	5145.5	10847.2	11230.6	11784.7	9160.8	6295.9	3756.3
77.5°	548.1	554.1	664.5	1120.3	2565.7	5414.6	5818.1	7016.6	5364.4	3115.8	1570.0
80°	323.2	329.2	413.6	606.3	1204.6	2477.4	2860.9	2774.5	2521.6	1345.1	714.7
82.5°	162.6	168.6	238.9	345.3	656.5	985.7	1160.4	1166.4	939.6	728.8	403.5
85°	58.2	60.2	78.3	136.5	279.1	325.2	363.4	443.7	459.7	423.6	194.7
87.5°	0.0	0.0	2.0	4.0	8.0	32.1	34.1	64.2	134.5	150.6	78.3
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°	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4	2752.4
2.5°	2760.5	2730.4	2720.3	2710.3	2694.2	2688.2	2676.2	2664.1	2664.1	2652.1	2646.0
5°	2774.5	2734.4	2708.3	2696.2	2686.2	2692.2	2692.2	2696.2	2710.3	2702.3	2706.3
7.5°	2824.7	2778.5	2742.4	2732.4	2732.4	2756.5	2772.5	2792.6	2818.7	2822.7	2822.7
10°	2913.1	2858.9	2820.7	2814.7	2824.7	2858.9	2882.9	2907.0	2939.2	2941.2	2945.2
12.5°	3009.4	2955.2	2917.1	2925.1	2935.1	2979.3	3005.4	3025.5	3057.6	3057.6	3055.6
15°	3109.8	3049.6	3017.5	3033.5	3063.6	3113.8	3117.8	3119.8	3135.9	3131.9	3129.9
17.5°	3214.2	3150.0	3125.9	3150.0	3182.1	3206.2	3186.1	3158.0	3152.0	3143.9	3139.9
20°	3316.6	3250.3	3240.3	3258.4	3268.4	3248.3	3186.1	3133.9	3109.8	3097.8	3093.7
22.5°	3404.9	3348.7	3342.7	3342.7	3292.5	3222.2	3129.9	3059.6	3027.5	3011.4	3007.4
25°	3509.3	3457.1	3447.1	3392.9	3264.4	3135.9	3011.4	2947.2	2921.1	2913.1	2915.1
27.5°	3631.8	3595.7	3563.5	3408.9	3184.1	2983.3	2842.8	2814.7	2804.6	2814.7	2820.7
30°	3782.4	3746.2	3673.9	3388.9	3055.6	2784.6	2650.1	2648.1	2678.2	2704.3	2708.3
32.5°	3904.8	3888.8	3770.3	3324.6	2874.9	2565.7	2451.3	2459.3	2513.5	2549.7	2555.7
35°	4001.2	4027.3	3850.6	3218.2	2660.1	2359.0	2268.6	2272.6	2302.7	2352.9	2354.9
37.5°	4137.7	4226.0	3922.9	3055.6	2413.2	2180.3	2098.0	2067.9	2063.8	2077.9	2081.9
40°	4412.8	4545.3	3975.1	2818.7	2174.3	2019.7	1927.3	1869.1	1818.9	1780.8	1768.7
42.5°	4828.3	4980.9	4005.2	2531.6	1961.4	1861.1	1756.7	1682.4	1594.1	1513.7	1485.6
45°	5591.2	5641.4	4005.2	2226.5	1772.7	1712.5	1608.1	1519.8	1407.3	1313.0	1292.9
47.5°	6811.9	6651.3	4009.2	1931.3	1606.1	1582.0	1491.7	1391.3	1266.8	1188.5	1176.5
50°	8650.8	8086.7	4091.5	1686.4	1467.6	1471.6	1405.3	1294.9	1182.5	1124.3	1114.2
52.5°	10734.8	9855.4	4312.4	1505.7	1351.1	1381.2	1345.1	1238.7	1138.3	1088.1	1078.1
55°	12694.2	11481.6	4501.1	1377.2	1252.8	1305.0	1302.9	1204.6	1114.2	1064.0	1058.0
57.5°	14360.5	12595.8	4473.0	1272.8	1168.4	1234.7	1264.8	1182.5	1098.2	1056.0	1050.0
60°	15396.5	13186.1	4073.5	1176.5	1104.2	1184.5	1242.7	1176.5	1106.2	1096.2	1098.2
62.5°	15846.2	13077.6	3306.6	1104.2	1062.0	1160.4	1266.8	1218.6	1180.5	1204.6	1218.6
65°	15147.5	12146.1	2433.2	1050.0	1021.9	1166.4	1323.0	1284.9	1180.5	1196.5	1202.6
67.5°	13208.1	10339.3	1758.7	995.8	971.7	1184.5	1403.3	1274.8	1112.2	1112.2	1100.2
70°	9518.1	7436.2	1276.8	941.6	921.5	1158.4	1407.3	1206.6	1033.9	1027.9	997.8
72.5°	5727.7	4386.7	995.8	881.3	845.2	1027.9	1319.0	1126.3	957.6	907.4	871.3
75°	2975.3	2198.3	835.2	815.1	724.8	871.3	1206.6	1001.8	819.1	774.9	754.9
77.5°	1274.8	1027.9	716.7	726.8	602.3	732.8	973.7	867.3	726.8	670.5	652.5
80°	628.4	584.2	566.1	582.2	481.8	566.1	839.2	758.9	616.3	552.1	526.0
82.5°	359.4	341.3	407.5	413.6	343.3	473.8	708.7	642.4	509.9	439.7	397.5
85°	166.6	178.7	246.9	248.9	212.8	325.2	463.8	361.4	271.0	224.9	214.8
87.5°	66.3	78.3	108.4	106.4	62.2	60.2	40.2	22.1	18.1	16.1	14.1
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)