

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: P636293

Luminaire Tested: GWS-SA3F-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3F-740-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21519 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

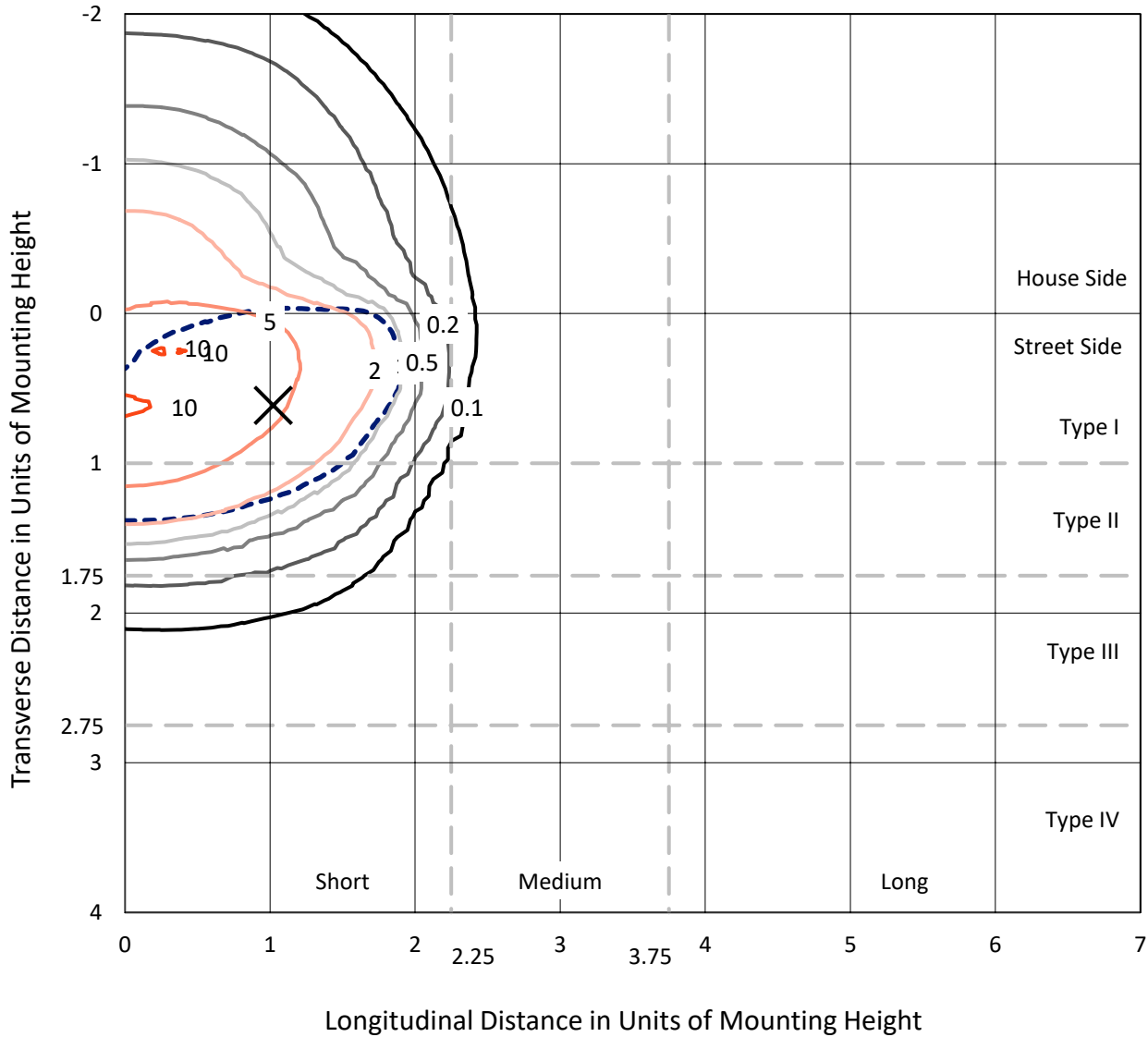
Input Watts (W): 183.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P636293
 CATALOG NUMBER: GWS-SA3F-740-U-T2R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

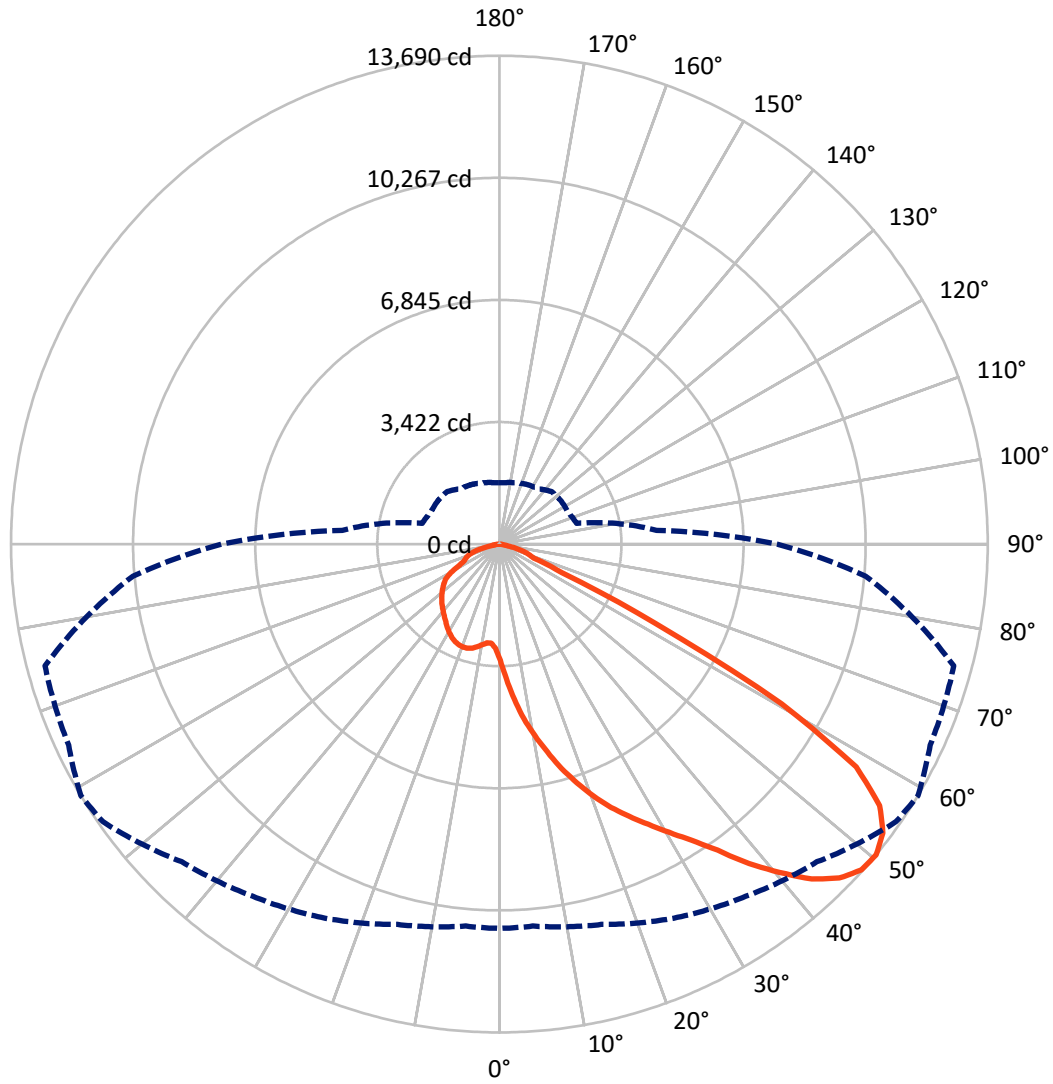
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

REPORT NUMBER: P636293
CATALOG NUMBER: GWS-SA3F-740-U-T2R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P636293

CATALOG NUMBER: GWS-SA3F-740-U-T2R-W-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4949.8	0.0	4949.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	16569.2	0.0	16569.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	21519.0	0.0	21519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.7	1.7
10°-20°	1327.7	6.2
20°-30°	2514.2	11.7
30°-40°	4169.3	19.4
40°-50°	5695.5	26.5
50°-60°	5170.0	24.0
60°-70°	1721.7	8.0
70°-80°	502.1	2.3
80°-90°	52.7	0.2
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°	21519.0	100.0
0°-180°	21519.0	100.0

Coefficient of Utilization



REPORT NUMBER: P636293

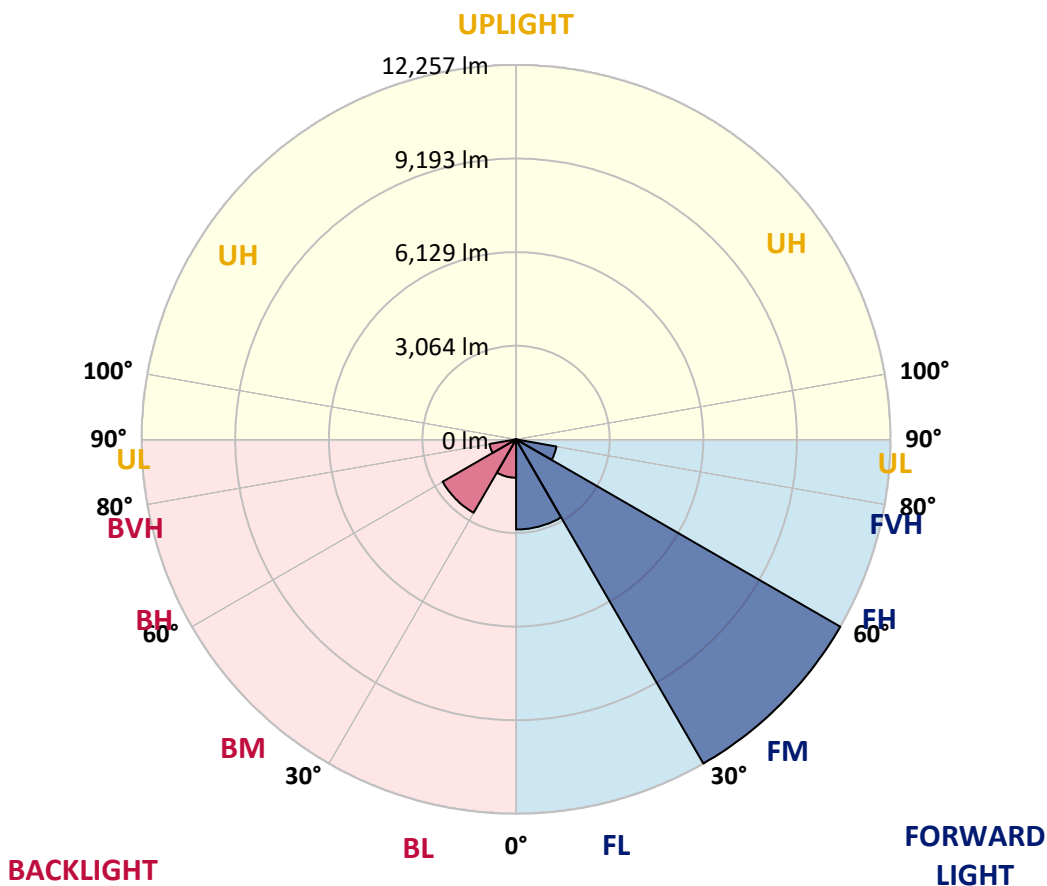
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2950.8	13.7			
FM (30°-60°)	12257.5	57.0			
FH (60°-80°)	1340.3	6.2			G1/1800
FVH (80°-90°)	20.6	0.1			G1/100
BL (0°-30°)	1256.9	5.8	B3/2500		
BM (30°-60°)	2777.3	12.9	B3/5000		
BH (60°-80°)	883.5	4.1	B2/1000		G2/1000
BVH (80°-90°)	32.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P636293

CATALOG NUMBER: GWS-SA3F-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3
2.5°	4224.3	4255.9	4206.8	4210.3	4087.6	4031.5	3873.8	3780.9	3719.5	3547.7	3391.7
5°	5076.2	5039.4	5000.8	4978.1	4871.1	4720.4	4524.1	4368.1	4224.3	3887.8	3563.5
7.5°	5598.6	5579.3	5553.0	5539.0	5433.8	5276.0	5079.7	4946.5	4737.9	4282.2	3772.1
10°	6042.0	6019.2	6003.5	6014.0	5928.1	5826.4	5612.6	5460.1	5225.2	4699.4	4024.5
12.5°	6385.6	6397.9	6403.1	6459.2	6422.4	6361.1	6140.2	5978.9	5717.8	5139.3	4320.7
15°	6657.3	6653.8	6715.1	6822.0	6881.6	6843.1	6666.0	6531.1	6212.1	5572.3	4639.8
17.5°	6720.4	6723.9	6820.3	7007.9	7202.4	7297.1	7197.2	7035.9	6720.4	6000.0	4971.1
20°	6771.2	6778.2	6878.1	7092.0	7375.9	7640.6	7656.4	7540.7	7269.0	6462.7	5307.6
22.5°	7092.0	7107.8	7134.1	7269.0	7524.9	7859.7	8043.8	8019.2	7791.4	6948.3	5670.4
25°	7935.1	7887.8	7759.8	7721.3	7819.4	8091.1	8404.9	8452.2	8340.0	7482.9	6061.3
27.5°	8976.3	8925.5	8736.1	8536.3	8324.2	8418.9	8753.7	8895.7	8897.4	8071.8	6454.0
30°	9921.1	9880.8	9726.5	9440.8	9074.4	8937.7	9184.9	9375.9	9489.9	8751.9	6900.9
32.5°	10729.1	10692.3	10483.7	10250.6	9893.0	9617.8	9707.2	9891.3	10157.7	9631.9	7456.6
35°	11409.2	11372.4	11172.6	10937.7	10606.4	10441.7	10410.1	10536.3	10881.6	10550.3	8094.6
37.5°	11961.4	11924.6	11716.0	11495.1	11242.7	11253.2	11300.6	11361.9	11560.0	11533.7	8776.5
40°	12319.0	12280.4	12131.4	11973.6	11814.1	11940.3	12175.2	12101.6	12206.8	12327.7	9404.0
42.5°	12478.5	12429.4	12343.5	12308.4	12259.4	12455.7	12907.9	12834.3	12708.1	12857.1	9870.2
45°	12319.0	12276.9	12275.1	12382.1	12496.0	12748.4	13414.5	13354.9	13035.9	13113.0	10148.9
47.5°	11829.9	11793.1	11893.0	12173.5	12453.9	12822.0	13640.6	13651.1	13269.0	13219.9	10329.5
50°	10772.9	10748.4	11037.6	11568.7	12052.5	12592.4	13568.7	13689.7	13325.1	13186.6	10306.7
52.5°	8624.0	8737.9	9367.2	10254.1	11193.6	12189.2	13302.3	13460.1	13055.1	12967.5	10184.0
55°	5903.6	5956.1	6585.4	7880.8	9370.7	11316.3	12690.6	12934.2	12736.1	12930.7	10312.0
57.5°	3057.0	3099.0	3595.1	4744.9	6355.8	8943.0	10992.1	11791.3	12092.8	13116.5	10709.8
60°	1255.0	1290.1	1495.2	2050.8	3205.9	5207.7	7910.6	9095.5	9803.6	11978.9	9510.9
62.5°	911.5	929.0	1027.2	1223.5	1679.2	2552.1	4476.8	4913.2	5411.0	7507.4	6038.5
65°	767.7	787.0	865.9	985.1	1225.2	1565.3	1912.3	1922.9	2119.2	3058.7	2238.4
67.5°	643.3	660.8	730.9	832.6	990.4	1111.3	1027.2	1028.9	1025.4	1109.5	1072.7
70°	501.3	515.3	585.4	694.1	776.5	713.4	802.8	888.7	851.9	885.2	936.0
72.5°	366.3	382.1	443.5	525.9	504.8	508.3	650.3	737.9	716.9	753.7	801.0
75°	264.7	275.2	306.7	262.9	276.9	334.8	457.5	504.8	525.9	557.4	599.5
77.5°	85.9	85.9	96.4	120.9	150.7	185.8	233.1	252.4	284.0	319.0	348.8
80°	43.8	45.6	54.3	66.6	84.1	106.9	136.7	145.5	161.3	180.5	192.8
82.5°	21.0	22.8	26.3	33.3	43.8	56.1	75.4	84.1	94.7	106.9	115.7
85°	5.3	5.3	7.0	10.5	14.0	21.0	28.0	33.3	42.1	50.8	56.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	5.3	7.0	8.8	10.5	14.0
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: P636293

CATALOG NUMBER: GWS-SA3F-740-U-T2R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3	3260.3
2.5°	3321.6	3223.5	3097.3	2990.3	2892.2	2816.8	2752.0	2720.4	2690.6	2669.6	2676.6
5°	3412.8	3244.5	3009.6	2846.6	2746.7	2695.9	2660.8	2643.3	2639.8	2625.8	2620.5
7.5°	3546.0	3305.9	2992.1	2827.3	2760.7	2734.4	2715.1	2704.6	2709.9	2695.9	2690.6
10°	3710.8	3407.5	3035.9	2890.4	2832.6	2813.3	2792.3	2778.2	2771.2	2750.2	2746.7
12.5°	3915.8	3533.7	3114.8	2971.1	2913.2	2879.9	2851.9	2827.3	2811.6	2785.3	2778.2
15°	4136.7	3674.0	3207.7	3049.9	2981.6	2932.5	2886.9	2850.1	2822.1	2787.0	2781.8
17.5°	4376.8	3821.2	3284.8	3104.3	3016.6	2951.8	2885.2	2830.8	2792.3	2746.7	2741.4
20°	4627.5	3970.2	3342.7	3130.6	3018.4	2930.7	2841.4	2769.5	2720.4	2674.8	2671.3
22.5°	4886.9	4106.9	3377.7	3123.6	2990.3	2881.7	2774.7	2694.1	2636.3	2581.9	2578.4
25°	5148.1	4238.4	3386.5	3095.5	2934.3	2808.0	2701.1	2606.5	2541.6	2480.3	2473.3
27.5°	5412.8	4348.8	3365.5	3039.4	2858.9	2722.2	2615.2	2522.3	2455.7	2394.4	2383.9
30°	5695.0	4443.4	3319.9	2965.8	2771.2	2631.0	2525.8	2455.7	2392.6	2331.3	2320.8
32.5°	5996.5	4525.8	3255.0	2876.4	2669.6	2539.9	2462.7	2399.6	2336.5	2282.2	2271.7
35°	6355.8	4580.2	3158.6	2760.7	2574.9	2473.3	2420.7	2347.1	2269.9	2210.3	2205.1
37.5°	6727.4	4622.2	3042.9	2650.3	2492.5	2434.7	2390.9	2291.0	2194.6	2122.7	2113.9
40°	7086.7	4657.3	2899.2	2546.9	2417.2	2406.6	2347.1	2222.6	2056.1	1975.4	1968.4
42.5°	7421.5	4667.8	2748.5	2436.4	2348.8	2343.5	2276.9	2084.1	1956.2	1905.3	1898.3
45°	7651.1	4659.0	2592.4	2333.0	2280.4	2252.4	2182.3	1984.2	1905.3	1859.8	1851.0
47.5°	7821.2	4613.5	2417.2	2224.4	2203.3	2164.8	2014.0	1921.1	1847.5	1801.9	1793.2
50°	7791.4	4424.2	2240.1	2119.2	2110.4	2077.1	1891.3	1842.2	1777.4	1728.3	1721.3
52.5°	7637.1	4064.8	2059.6	2003.5	2021.0	1956.2	1803.7	1747.6	1691.5	1635.4	1623.1
55°	7675.7	3805.4	1922.9	1891.3	1922.9	1775.6	1705.5	1645.9	1593.3	1539.0	1528.5
57.5°	7844.0	3549.5	1777.4	1770.4	1803.7	1637.2	1579.3	1503.9	1428.6	1384.7	1384.7
60°	6587.2	2587.2	1521.5	1539.0	1614.4	1525.0	1474.1	1397.0	1314.6	1276.1	1276.1
62.5°	3894.8	1623.1	1262.0	1242.8	1290.1	1346.2	1374.2	1311.1	1213.0	1162.1	1163.9
65°	1716.0	1181.4	1113.1	1097.3	1083.3	1121.8	1198.9	1204.2	1100.8	1041.2	1042.9
67.5°	1057.0	1069.2	1041.2	1028.9	1016.6	1009.6	1002.6	1006.1	978.1	923.7	922.0
70°	953.5	986.8	967.6	957.1	941.3	929.0	886.9	818.6	771.2	757.2	773.0
72.5°	820.3	865.9	855.4	850.1	830.8	801.0	745.0	678.3	622.3	587.2	594.2
75°	618.8	655.6	660.8	662.6	641.5	613.5	555.6	499.6	450.5	413.7	422.4
77.5°	355.8	376.9	382.1	387.4	371.6	361.1	322.5	282.2	255.9	217.4	227.9
80°	198.1	206.8	206.8	208.6	199.8	187.6	161.3	138.5	126.2	108.7	110.4
82.5°	119.2	122.7	124.5	126.2	120.9	108.7	89.4	73.6	66.6	57.8	56.1
85°	57.8	61.3	61.3	63.1	54.3	47.3	36.8	28.0	24.5	17.5	19.3
87.5°	14.0	15.8	15.8	14.0	12.3	8.8	5.3	1.8	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)