

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: P637568

Luminaire Tested: GWS-SA4D-722-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-722-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18337.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

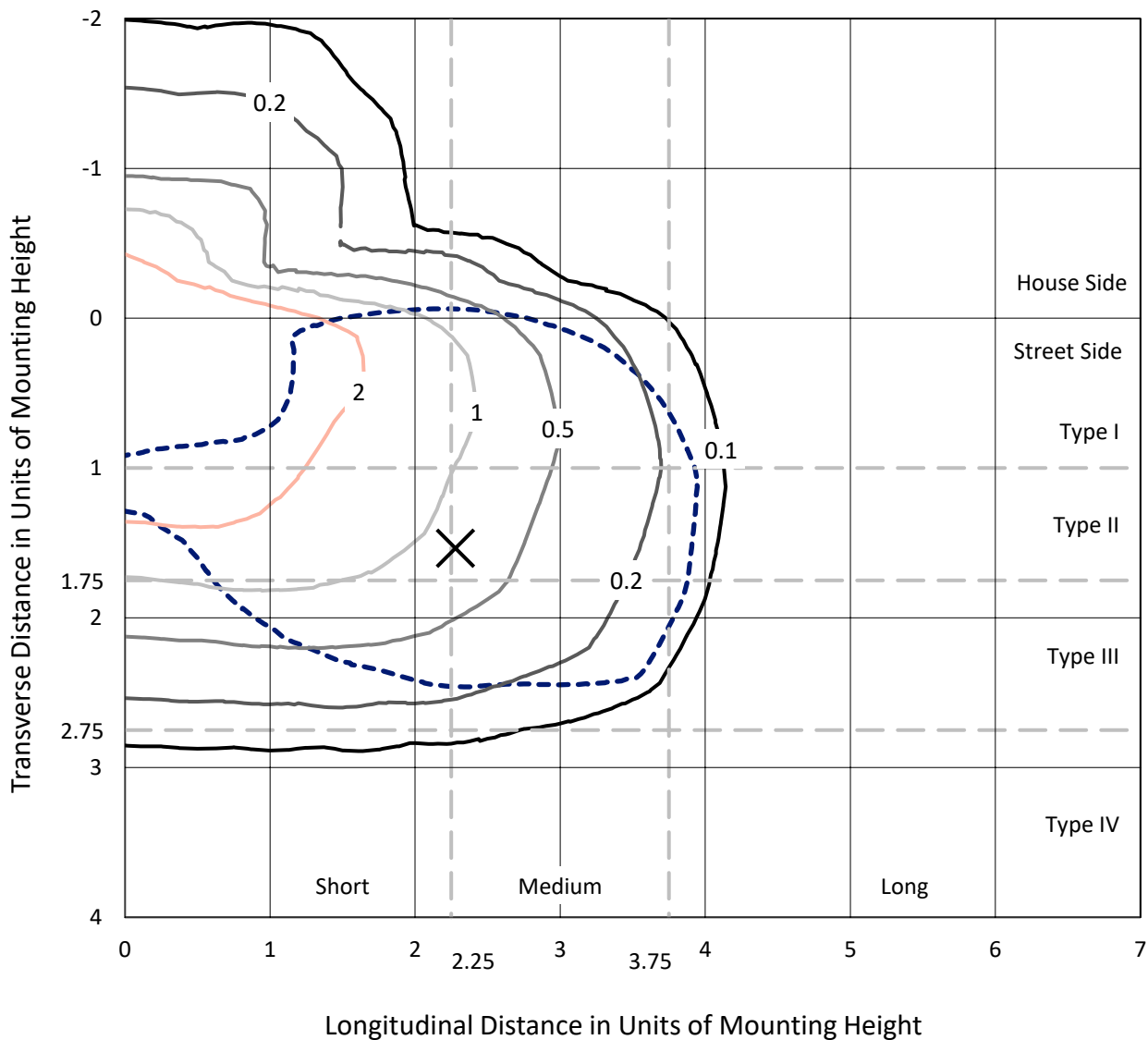
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637568
 CATALOG NUMBER: GWS-SA4D-722-U-T3R-W

Iso-Footcandle Lines of Horizontal Illumination

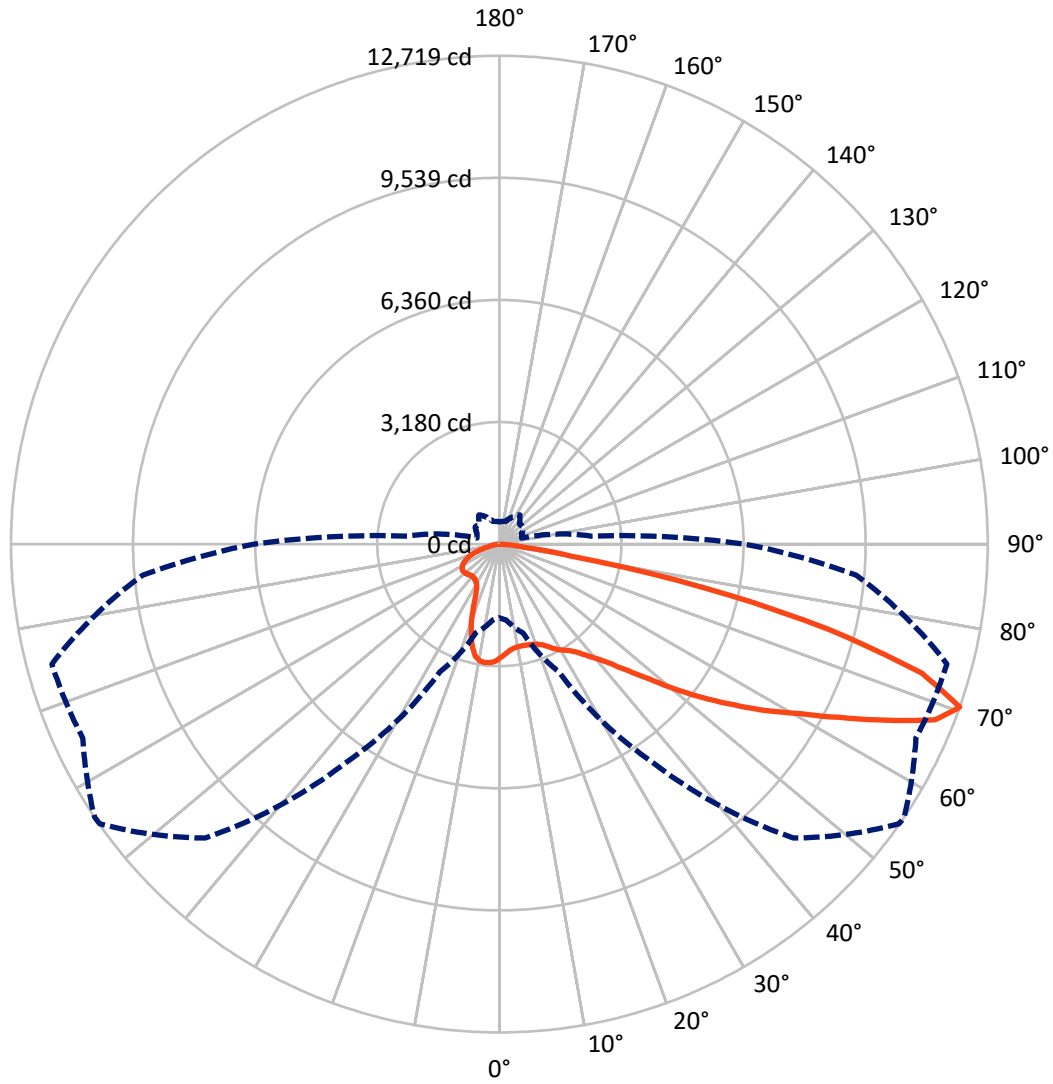
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P637568
CATALOG NUMBER: GWS-SA4D-722-U-T3R-W

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P637568

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3525.5	0.0	3525.5
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	14812.3	0.0	14812.3
	% Fixture	80.8	0.0	80.8
Total	Lumens	18337.8	0.0	18337.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.9	1.5
10°-20°	742.2	4.0
20°-30°	1227.0	6.7
30°-40°	1834.6	10.0
40°-50°	2730.1	14.9
50°-60°	3881.4	21.2
60°-70°	4807.2	26.2
70°-80°	2654.4	14.5
80°-90°	186.9	1.0
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°	18337.8	100.0
0°-180°	18337.8	100.0

Coefficient of Utilization



REPORT NUMBER: P637568

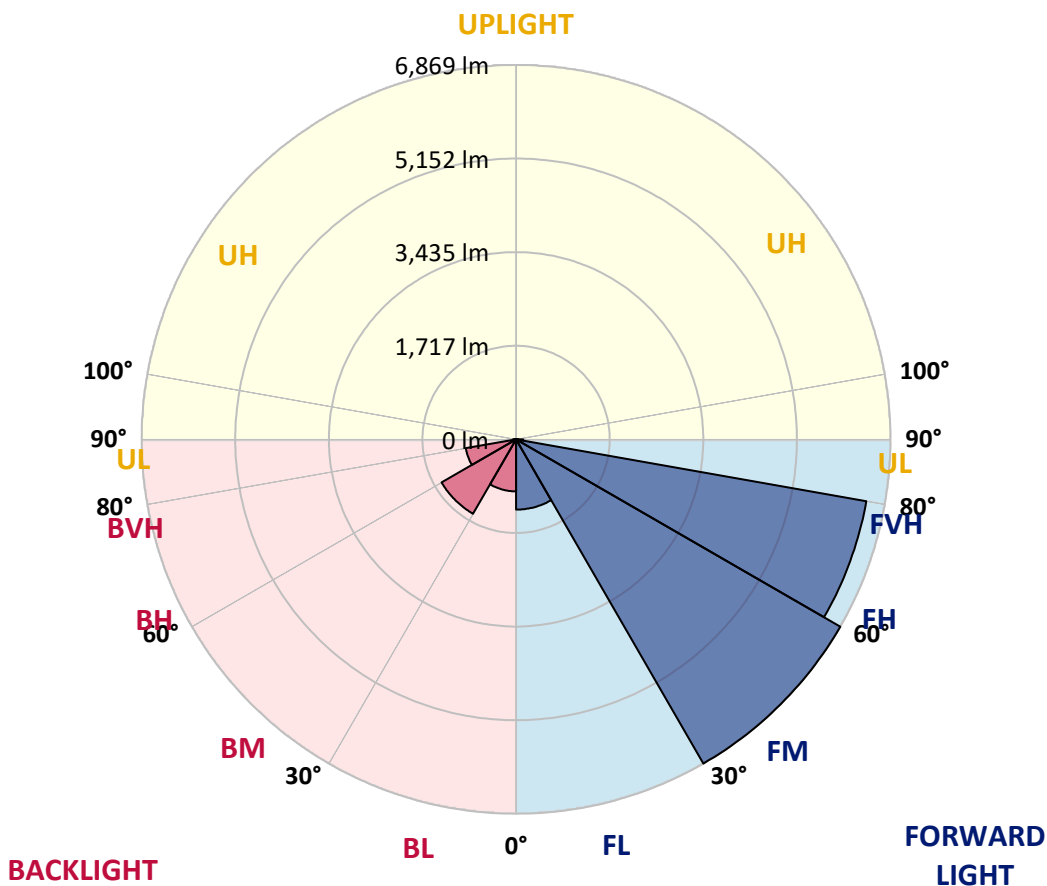
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1288.8	7.0			
FM (30°-60°)	6869.1	37.5			
FH (60°-80°)	6524.6	35.6			G3/7500
FVH (80°-90°)	129.9	0.7			G2/225
BL (0°-30°)	954.4	5.2	B2/1000		
BM (30°-60°)	1577.0	8.6	B2/2500		
BH (60°-80°)	937.1	5.1	B2/1000		G2/1000
BVH (80°-90°)	57.0	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-G3

Type III Medium





REPORT NUMBER: P637568
 CATALOG NUMBER: GWS-SA4D-722-U-T3R-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0
2.5°	2769.9	2754.4	2772.5	2781.5	2804.8	2838.4	2868.2	2869.5	2885.0	2922.5	2958.7
5°	2644.5	2636.7	2641.9	2669.0	2693.6	2736.3	2781.5	2785.4	2829.4	2903.1	2975.5
7.5°	2547.5	2537.1	2556.5	2591.5	2622.5	2670.3	2729.8	2735.0	2797.1	2908.3	3019.5
10°	2407.8	2400.1	2436.3	2482.8	2550.1	2629.0	2707.8	2714.3	2795.8	2941.9	3097.1
12.5°	2347.1	2347.1	2362.6	2406.5	2480.2	2585.0	2704.0	2714.3	2816.5	2993.6	3196.6
15°	2441.5	2447.9	2435.0	2432.4	2462.1	2561.7	2709.1	2724.7	2855.3	3046.6	3294.9
17.5°	2631.5	2638.0	2604.4	2551.4	2521.6	2583.7	2728.5	2745.3	2896.6	3104.8	3401.0
20°	2897.9	2905.7	2832.0	2750.5	2648.4	2647.1	2766.0	2781.5	2949.7	3168.2	3513.5
22.5°	3209.6	3214.8	3121.6	2992.3	2835.9	2764.7	2830.7	2846.2	3018.2	3256.1	3635.0
25°	3570.4	3585.9	3473.4	3285.9	3073.8	2926.4	2938.0	2956.1	3141.0	3373.8	3778.6
27.5°	3955.7	3975.1	3845.8	3638.9	3346.7	3104.8	3076.4	3091.9	3271.7	3446.2	3854.9
30°	4350.1	4364.4	4235.0	3998.4	3640.2	3306.6	3192.8	3201.8	3328.5	3481.1	3932.4
32.5°	4788.5	4776.9	4652.7	4379.9	3979.0	3548.4	3301.4	3298.8	3391.9	3551.0	4043.7
35°	5199.7	5216.5	5084.6	4783.3	4351.4	3847.1	3464.3	3454.0	3526.4	3664.8	4200.1
37.5°	5697.6	5692.4	5534.6	5208.8	4725.1	4132.9	3693.2	3675.1	3701.0	3841.9	4418.7
40°	6053.2	6089.4	5987.2	5683.4	5162.2	4484.6	3960.9	3920.8	3927.3	4060.5	4710.9
42.5°	6344.2	6377.8	6388.1	6194.2	5662.7	4919.1	4294.5	4254.4	4258.3	4447.1	5070.4
45°	6567.9	6613.1	6759.3	6702.4	6226.5	5420.9	4745.8	4704.5	4707.0	4916.5	5504.9
47.5°	6659.7	6708.8	7005.0	7140.7	6825.2	6020.9	5307.1	5246.3	5255.3	5486.8	6001.5
50°	6629.9	6695.9	7096.8	7478.2	7326.9	6631.2	5978.2	5935.5	5900.6	6236.8	6540.7
52.5°	6373.9	6446.3	7087.7	7692.9	7736.9	7208.0	6671.3	6646.8	6639.0	7033.4	7143.3
55°	5620.0	5741.6	6776.1	7749.8	8057.6	7751.1	7422.6	7381.3	7421.3	7886.9	7752.4
57.5°	5202.3	5292.8	6165.7	7686.4	8320.1	8268.4	8172.7	8176.5	8221.8	8814.1	8490.8
60°	4964.4	5070.4	5826.9	7513.2	8572.2	8896.8	8957.6	8957.6	9039.1	9813.7	9240.8
62.5°	4648.8	4756.2	5510.1	7179.5	8805.0	9636.5	9944.3	9940.4	9972.7	10885.7	9974.0
65°	4008.7	4108.3	4873.9	6653.2	8918.8	10451.2	11065.4	11053.8	10989.1	11840.0	10458.9
67.5°	2910.9	3005.3	3733.3	5652.3	8508.9	11108.1	12220.2	12225.4	11838.7	12441.3	10484.8
70°	1919.0	1983.7	2400.1	3671.2	6919.6	10824.9	12703.8	12719.3	11969.3	12066.3	9331.3
72.5°	1197.4	1242.7	1498.8	2189.3	4088.9	8568.4	11462.4	11505.1	10768.0	10603.8	7667.0
75°	795.3	826.3	997.0	1276.3	1891.9	4637.2	8713.2	8850.3	8630.4	8312.3	5342.0
77.5°	478.5	504.3	634.9	810.8	838.0	1811.7	5085.9	5440.3	5471.3	4339.8	2237.1
80°	218.5	248.3	350.4	462.9	446.1	631.1	1793.6	1876.3	2213.9	1378.5	706.1
82.5°	129.3	142.2	232.8	230.2	190.1	306.5	645.3	662.1	562.5	504.3	301.3
85°	51.7	60.8	98.3	86.6	69.8	99.6	243.1	254.7	244.4	219.8	111.2
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	22.0	23.3	33.6	60.8	33.6
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: P637568
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0	2960.0
2.5°	2982.0	2974.2	3013.0	3042.8	3055.7	3068.6	3057.0	3053.1	3053.1	3027.2	3014.3
5°	3014.3	3018.2	3071.2	3095.8	3095.8	3085.4	3054.4	3032.4	3024.7	2991.0	2982.0
7.5°	3075.1	3091.9	3141.0	3139.7	3103.5	3046.6	2969.1	2909.6	2855.3	2832.0	2817.8
10°	3174.7	3196.6	3230.3	3176.0	3075.1	2925.1	2760.9	2631.5	2554.0	2491.9	2491.9
12.5°	3288.5	3309.2	3302.7	3177.3	2969.1	2688.4	2451.8	2303.1	2194.5	2137.6	2137.6
15°	3402.3	3419.1	3349.2	3117.8	2747.9	2374.2	2115.6	1937.1	1842.7	1789.7	1789.7
17.5°	3517.3	3516.1	3368.6	2980.7	2459.6	2026.4	1772.9	1634.5	1602.2	1593.2	1591.9
20°	3628.6	3598.8	3344.1	2751.8	2124.6	1675.9	1515.6	1524.6	1572.5	1593.2	1595.7
22.5°	3754.0	3680.3	3271.7	2459.6	1744.4	1432.8	1443.1	1518.1	1588.0	1619.0	1622.9
25°	3882.0	3750.1	3150.1	2116.9	1426.3	1343.6	1423.7	1507.8	1586.7	1626.8	1630.7
27.5°	3933.7	3750.1	2943.2	1719.9	1256.9	1306.1	1394.0	1475.5	1558.2	1604.8	1613.8
30°	3976.4	3717.8	2653.5	1361.7	1187.1	1269.9	1346.2	1421.2	1502.6	1559.5	1569.9
32.5°	4035.9	3689.3	2303.1	1144.4	1154.8	1235.0	1288.0	1351.3	1425.0	1462.5	1458.7
35°	4105.7	3645.4	1880.2	1041.0	1127.6	1205.2	1242.7	1280.2	1246.6	1245.3	1249.2
37.5°	4205.3	3606.6	1511.7	994.4	1109.5	1184.5	1215.6	1135.4	1088.8	1069.4	1061.7
40°	4348.8	3591.1	1192.3	967.3	1106.9	1183.2	1161.2	1037.1	973.7	906.5	905.2
42.5°	4529.9	3579.4	985.4	954.3	1116.0	1213.0	1086.2	972.4	841.8	812.1	809.5
45°	4762.6	3561.3	881.9	951.8	1138.0	1236.2	1078.5	883.2	794.0	781.1	781.1
47.5°	5043.3	3532.9	835.4	951.8	1162.5	1225.9	1055.2	863.8	772.0	786.2	795.3
50°	5365.2	3496.7	810.8	949.2	1187.1	1225.9	1006.1	859.9	766.8	840.5	870.3
52.5°	5709.2	3455.3	794.0	938.8	1203.9	1227.2	1008.7	872.9	772.0	853.5	878.0
55°	6089.4	3448.8	770.7	916.8	1209.1	1193.6	1015.1	901.3	779.8	773.3	774.6
57.5°	6569.2	3526.4	753.9	884.5	1188.4	1125.0	1028.0	922.0	770.7	772.0	781.1
60°	7070.9	3672.5	768.1	853.5	1145.7	1060.4	1037.1	911.7	726.7	706.1	708.6
62.5°	7497.6	3783.7	779.8	839.2	1083.7	1003.5	1028.0	888.4	702.2	697.0	708.6
65°	7676.1	3691.9	751.3	809.5	993.1	933.6	1008.7	858.6	681.5	662.1	663.4
67.5°	7478.2	3261.3	695.7	743.6	891.0	844.4	977.6	819.9	653.0	629.8	624.6
70°	6388.1	2396.2	600.0	638.8	766.8	739.7	929.8	769.4	607.8	591.0	579.3
72.5°	5148.0	1696.6	497.9	508.2	601.3	623.3	847.0	706.1	556.1	508.2	491.4
75°	3583.3	1065.5	415.1	404.8	434.5	475.9	660.8	585.8	479.8	429.3	413.8
77.5°	1541.4	547.0	324.6	319.4	289.7	329.8	506.9	488.8	402.2	344.0	334.9
80°	516.0	316.8	234.1	225.0	192.7	231.5	356.9	390.5	315.5	254.7	239.2
82.5°	258.6	183.6	148.7	134.5	129.3	146.1	210.8	243.1	218.5	175.9	148.7
85°	126.7	104.7	81.5	80.2	67.2	63.4	87.9	103.5	98.3	72.4	68.5
87.5°	46.6	41.4	25.9	20.7	12.9	9.1	5.2	5.2	3.9	3.9	3.9
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)