

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: P637348

Luminaire Tested: GWS-SA4C-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637348
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-SA4C-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20186 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 128.5
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

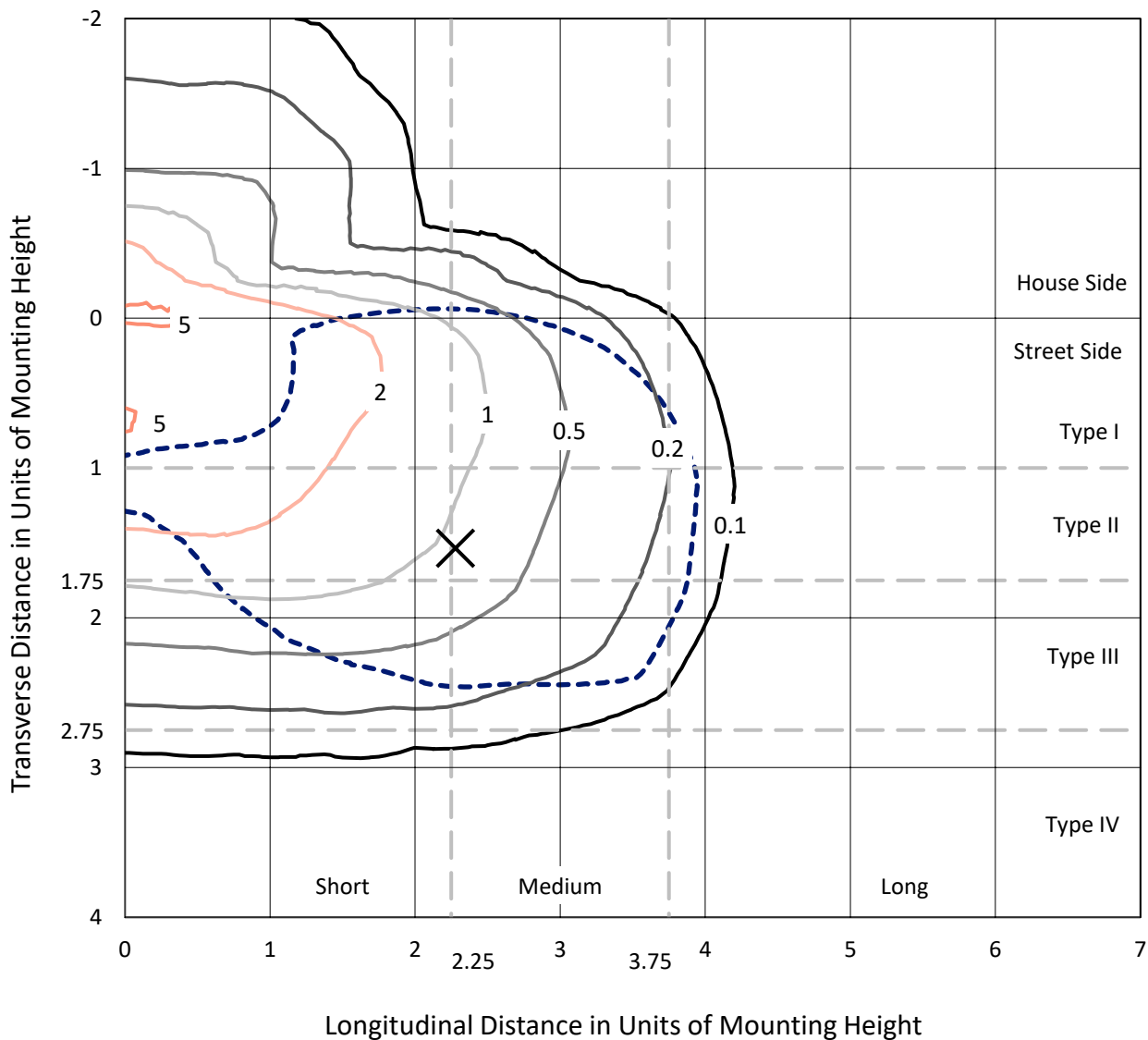


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Iso-Footcandle Lines of Horizontal Illumination

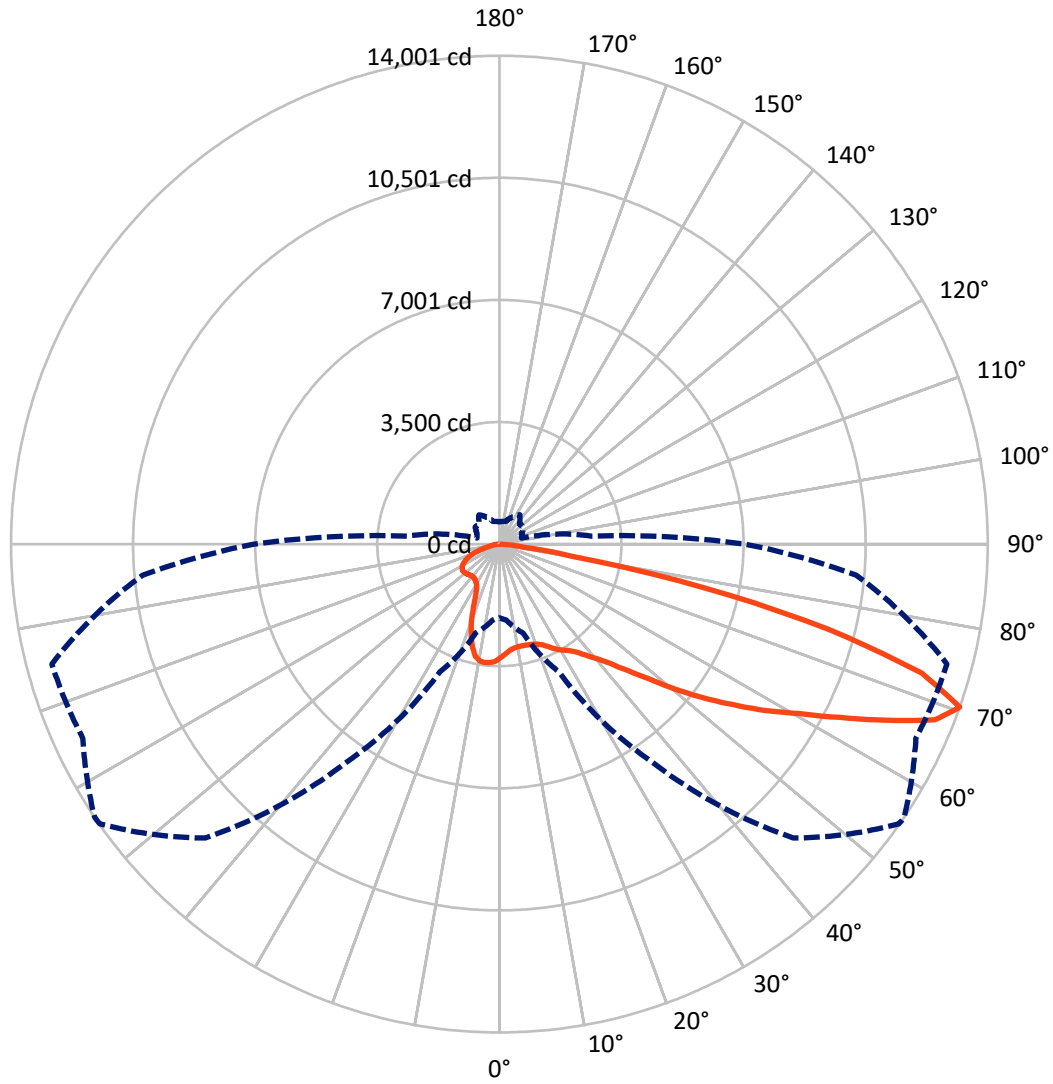
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3880.8	0.0	3880.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	16305.2	0.0	16305.2
	% Fixture	80.8	0.0	80.8
Total	Lumens	20186.0	0.0	20186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.5	1.5
10°-20°	817.0	4.0
20°-30°	1350.7	6.7
30°-40°	2019.5	10.0
40°-50°	3005.3	14.9
50°-60°	4272.6	21.2
60°-70°	5291.7	26.2
70°-80°	2921.9	14.5
80°-90°	205.8	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°	20186.0	100.0
0°-180°	20186.0	100.0

Coefficient of Utilization



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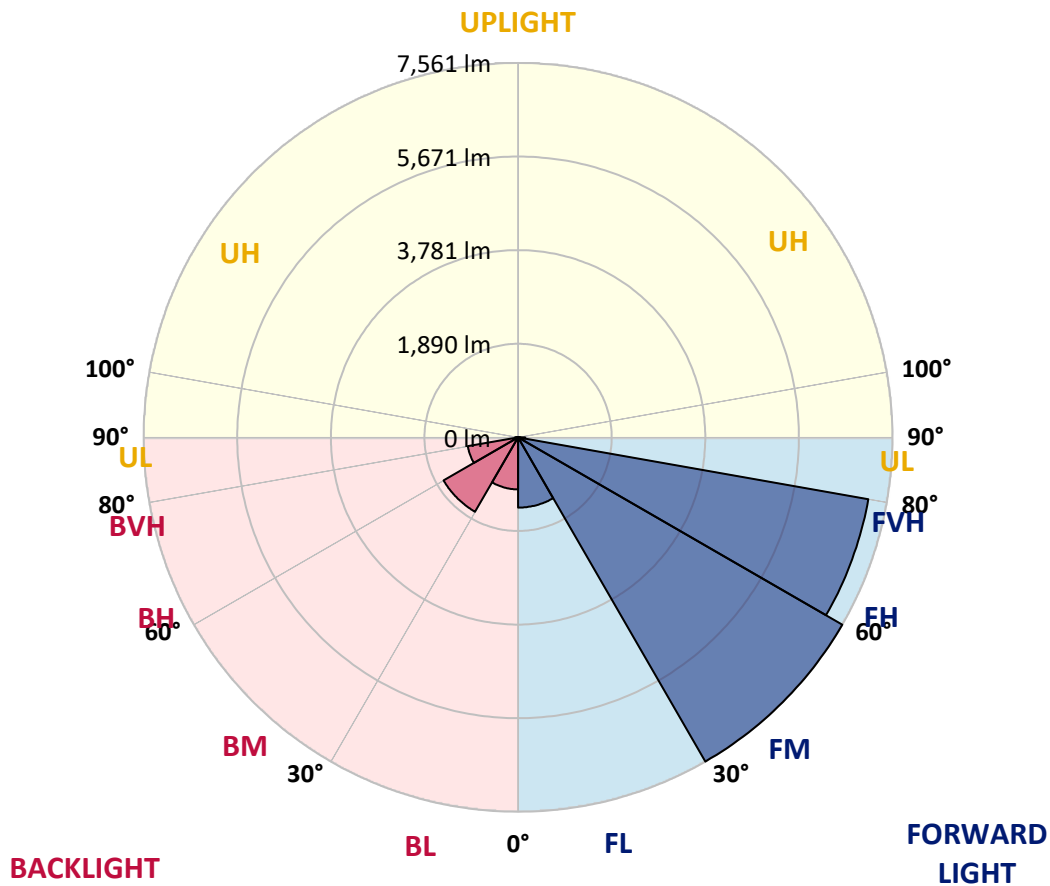
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.6	7.0			
FM (30°-60°)	7561.4	37.5			
FH (60°-80°)	7182.2	35.6			G3/7500
FVH (80°-90°)	143.0	0.7			G2/225
BL (0°-30°)	1050.6	5.2	B3/2500		
BM (30°-60°)	1736.0	8.6	B2/2500		
BH (60°-80°)	1031.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	62.8	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3
2.5°	3049.1	3032.0	3051.9	3061.9	3087.5	3124.5	3157.3	3158.7	3175.8	3217.1	3256.9
5°	2911.0	2902.5	2908.2	2938.0	2965.1	3012.1	3061.9	3066.2	3114.6	3195.7	3275.4
7.5°	2804.2	2792.9	2814.2	2852.6	2886.8	2939.5	3005.0	3010.6	3079.0	3201.4	3323.8
10°	2650.5	2642.0	2681.8	2733.1	2807.1	2893.9	2980.8	2987.9	3077.5	3238.4	3409.2
12.5°	2583.6	2583.6	2600.7	2649.1	2730.2	2845.5	2976.5	2987.9	3100.3	3295.3	3518.8
15°	2687.5	2694.6	2680.4	2677.6	2710.3	2819.9	2982.2	2999.3	3143.0	3353.7	3627.0
17.5°	2896.8	2903.9	2866.9	2808.5	2775.8	2844.1	3003.5	3022.0	3188.6	3417.8	3743.7
20°	3190.0	3198.5	3117.4	3027.7	2915.3	2913.9	3044.8	3061.9	3246.9	3487.5	3867.6
22.5°	3533.1	3538.8	3436.3	3293.9	3121.7	3043.4	3116.0	3133.1	3322.4	3584.3	4001.4
25°	3930.2	3947.3	3823.4	3617.0	3383.6	3221.3	3234.1	3254.1	3457.6	3713.8	4159.4
27.5°	4354.4	4375.8	4233.4	4005.7	3683.9	3417.8	3386.4	3403.5	3601.4	3793.6	4243.4
30°	4788.6	4804.2	4661.9	4401.4	4007.1	3639.8	3514.6	3524.5	3664.0	3832.0	4328.8
32.5°	5271.1	5258.3	5121.7	4821.3	4380.0	3906.0	3634.1	3631.3	3733.8	3908.9	4451.2
35°	5723.8	5742.3	5597.1	5265.4	4790.0	4234.8	3813.5	3802.1	3881.8	4034.1	4623.4
37.5°	6271.8	6266.1	6092.5	5733.8	5201.4	4549.4	4065.4	4045.5	4074.0	4229.1	4864.0
40°	6663.3	6703.1	6590.7	6256.2	5682.5	4936.6	4360.1	4316.0	4323.1	4469.7	5185.7
42.5°	6983.6	7020.6	7032.0	6818.4	6233.4	5414.9	4727.4	4683.2	4687.5	4895.3	5581.4
45°	7229.8	7279.6	7440.5	7377.9	6854.0	5967.2	5224.1	5178.6	5181.4	5412.0	6059.7
47.5°	7330.9	7385.0	7711.0	7860.4	7513.1	6627.7	5841.9	5775.0	5785.0	6039.8	6606.3
50°	7298.1	7370.7	7812.0	8231.9	8065.4	7299.6	6580.7	6533.7	6495.3	6865.4	7199.9
52.5°	7016.3	7096.0	7802.1	8468.2	8516.6	7934.4	7343.7	7316.7	7308.1	7742.3	7863.3
55°	6186.4	6320.2	7459.0	8530.9	8869.7	8532.3	8170.7	8125.2	8169.3	8681.8	8533.7
57.5°	5726.6	5826.3	6787.1	8461.1	9158.6	9101.7	8996.4	9000.6	9050.4	9702.4	9346.5
60°	5464.7	5581.4	6414.2	8270.4	9436.2	9793.5	9860.4	9860.4	9950.1	10802.7	10172.1
62.5°	5117.4	5235.5	6065.4	7903.1	9692.4	10607.7	10946.5	10942.2	10977.8	11982.8	10979.3
65°	4412.8	4522.4	5365.1	7323.8	9817.7	11504.5	12180.7	12167.9	12096.7	13033.3	11513.1
67.5°	3204.2	3308.2	4109.6	6222.0	9366.5	12227.6	13451.8	13457.5	13031.9	13695.2	11541.5
70°	2112.4	2183.6	2642.0	4041.2	7617.0	11915.9	13984.2	14001.3	13175.7	13282.4	10271.8
72.5°	1318.1	1368.0	1649.8	2409.9	4501.0	9431.9	12617.7	12664.6	11853.3	11672.5	8439.8
75°	875.4	909.6	1097.5	1405.0	2082.5	5104.6	9591.4	9742.3	9500.3	9150.1	5880.4
77.5°	526.7	555.2	698.9	892.5	922.4	1994.3	5598.5	5988.6	6022.7	4777.2	2462.6
80°	240.6	273.3	385.8	509.6	491.1	694.7	1974.4	2065.5	2437.0	1517.4	777.2
82.5°	142.3	156.6	256.2	253.4	209.3	337.4	710.3	728.8	619.2	555.2	331.7
85°	56.9	66.9	108.2	95.4	76.9	109.6	267.6	280.4	269.0	242.0	122.4
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	24.2	25.6	37.0	66.9	37.0
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°	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3	3258.3
2.5°	3282.5	3274.0	3316.7	3349.4	3363.7	3377.9	3365.1	3360.8	3360.8	3332.4	3318.1
5°	3318.1	3322.4	3380.7	3407.8	3407.8	3396.4	3362.2	3338.0	3329.5	3292.5	3282.5
7.5°	3385.0	3403.5	3457.6	3456.2	3416.3	3353.7	3268.3	3202.8	3143.0	3117.4	3101.7
10°	3494.6	3518.8	3555.8	3496.1	3385.0	3219.9	3039.1	2896.8	2811.4	2743.0	2743.0
12.5°	3619.9	3642.7	3635.6	3497.5	3268.3	2959.4	2698.9	2535.2	2415.6	2353.0	2353.0
15°	3745.2	3763.7	3686.8	3432.0	3024.9	2613.5	2328.8	2132.4	2028.4	1970.1	1970.1
17.5°	3871.8	3870.4	3708.1	3281.1	2707.4	2230.6	1951.6	1799.3	1763.7	1753.7	1752.3
20°	3994.3	3961.5	3681.1	3029.2	2338.8	1844.8	1668.3	1678.3	1730.9	1753.7	1756.6
22.5°	4132.3	4051.2	3601.4	2707.4	1920.3	1577.2	1588.6	1671.2	1748.0	1782.2	1786.5
25°	4273.3	4128.1	3467.6	2330.2	1570.1	1479.0	1567.2	1659.8	1746.6	1790.7	1795.0
27.5°	4330.2	4128.1	3239.8	1893.2	1383.6	1437.7	1534.5	1624.2	1715.3	1766.5	1776.5
30°	4377.2	4092.5	2921.0	1498.9	1306.7	1397.9	1481.8	1564.4	1654.1	1716.7	1728.1
32.5°	4442.7	4061.2	2535.2	1259.8	1271.2	1359.4	1417.8	1487.5	1568.7	1609.9	1605.7
35°	4519.5	4012.8	2069.7	1145.9	1241.3	1326.7	1368.0	1409.2	1372.2	1370.8	1375.1
37.5°	4629.1	3970.1	1664.0	1094.7	1221.3	1303.9	1338.1	1249.8	1198.6	1177.2	1168.7
40°	4787.1	3953.0	1312.4	1064.8	1218.5	1302.5	1278.3	1141.6	1071.9	997.9	996.4
42.5°	4986.4	3940.2	1084.7	1050.5	1228.5	1335.2	1195.7	1070.5	926.7	893.9	891.1
45°	5242.7	3920.2	970.8	1047.7	1252.7	1360.8	1187.2	972.2	874.0	859.8	859.8
47.5°	5551.5	3888.9	919.6	1047.7	1279.7	1349.5	1161.6	950.9	849.8	865.5	875.4
50°	5906.0	3849.1	892.5	1044.8	1306.7	1349.5	1107.5	946.6	844.1	925.3	958.0
52.5°	6284.6	3803.5	874.0	1033.4	1325.3	1350.9	1110.3	960.8	849.8	939.5	966.5
55°	6703.1	3796.4	848.4	1009.2	1330.9	1313.9	1117.4	992.2	858.4	851.2	852.7
57.5°	7231.2	3881.8	829.9	973.7	1308.2	1238.4	1131.7	1014.9	848.4	849.8	859.8
60°	7783.6	4042.7	845.5	939.5	1261.2	1167.2	1141.6	1003.5	800.0	777.2	780.1
62.5°	8253.3	4165.1	858.4	923.8	1192.9	1104.6	1131.7	977.9	772.9	767.3	780.1
65°	8449.7	4064.0	827.0	891.1	1093.2	1027.7	1110.3	945.2	750.2	728.8	730.2
67.5°	8231.9	3590.0	765.8	818.5	980.8	929.5	1076.1	902.5	718.9	693.2	687.5
70°	7032.0	2637.7	660.5	703.2	844.1	814.2	1023.5	847.0	669.0	650.5	637.7
72.5°	5666.8	1867.6	548.0	559.4	661.9	686.1	932.4	777.2	612.1	559.4	540.9
75°	3944.4	1172.9	456.9	445.5	478.3	523.8	727.4	644.8	528.1	472.6	455.5
77.5°	1696.8	602.1	357.3	351.6	318.9	363.0	558.0	538.1	442.7	378.6	368.7
80°	568.0	348.8	257.6	247.7	212.1	254.8	392.9	429.9	347.3	280.4	263.3
82.5°	284.7	202.1	163.7	148.0	142.3	160.9	232.0	267.6	240.6	193.6	163.7
85°	139.5	115.3	89.7	88.3	74.0	69.8	96.8	113.9	108.2	79.7	75.4
87.5°	51.2	45.6	28.5	22.8	14.2	10.0	5.7	5.7	4.3	4.3	4.3
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)