

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: P640045

Luminaire Tested: GWS-SA5D-722-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21373.7 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

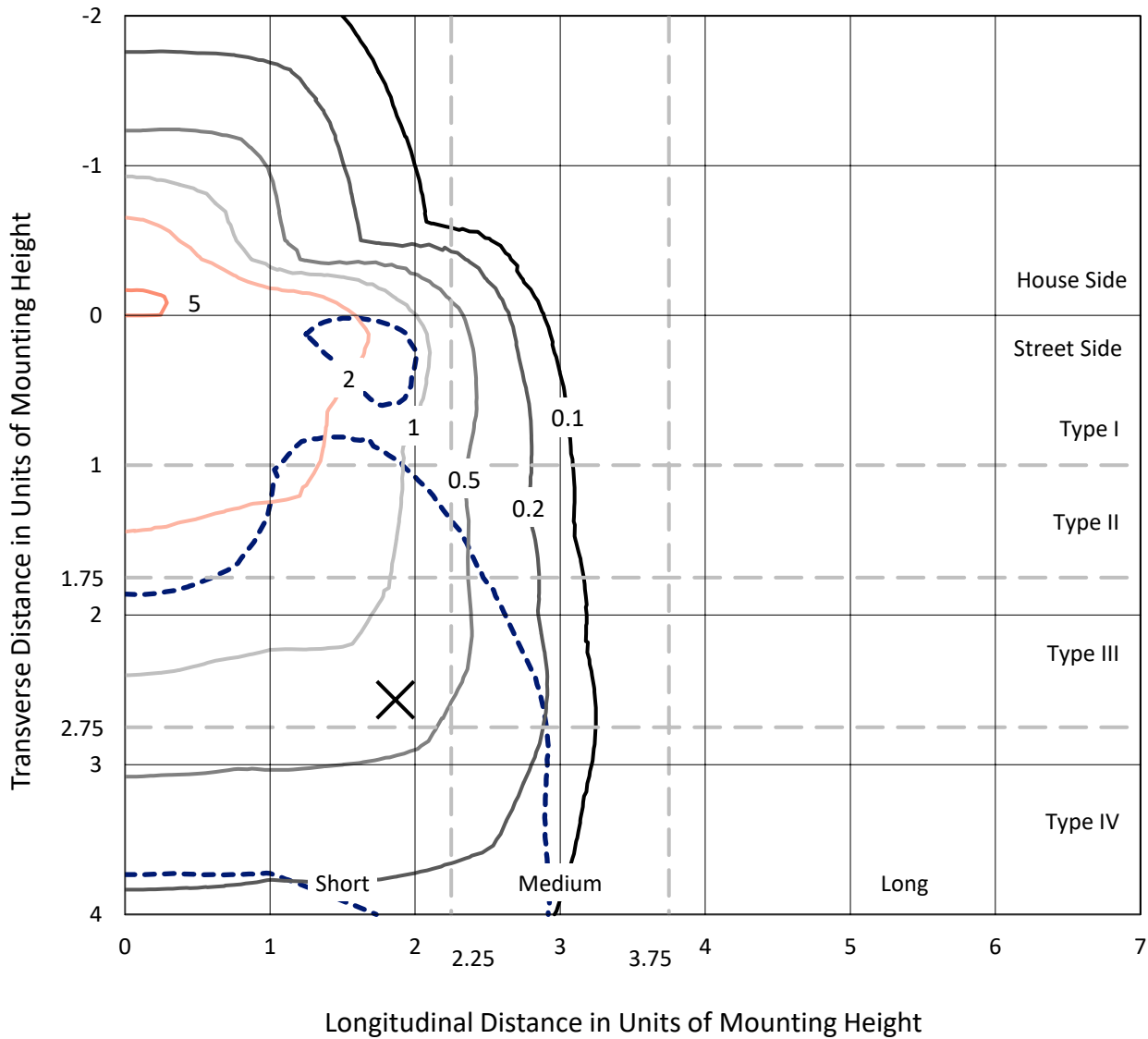
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

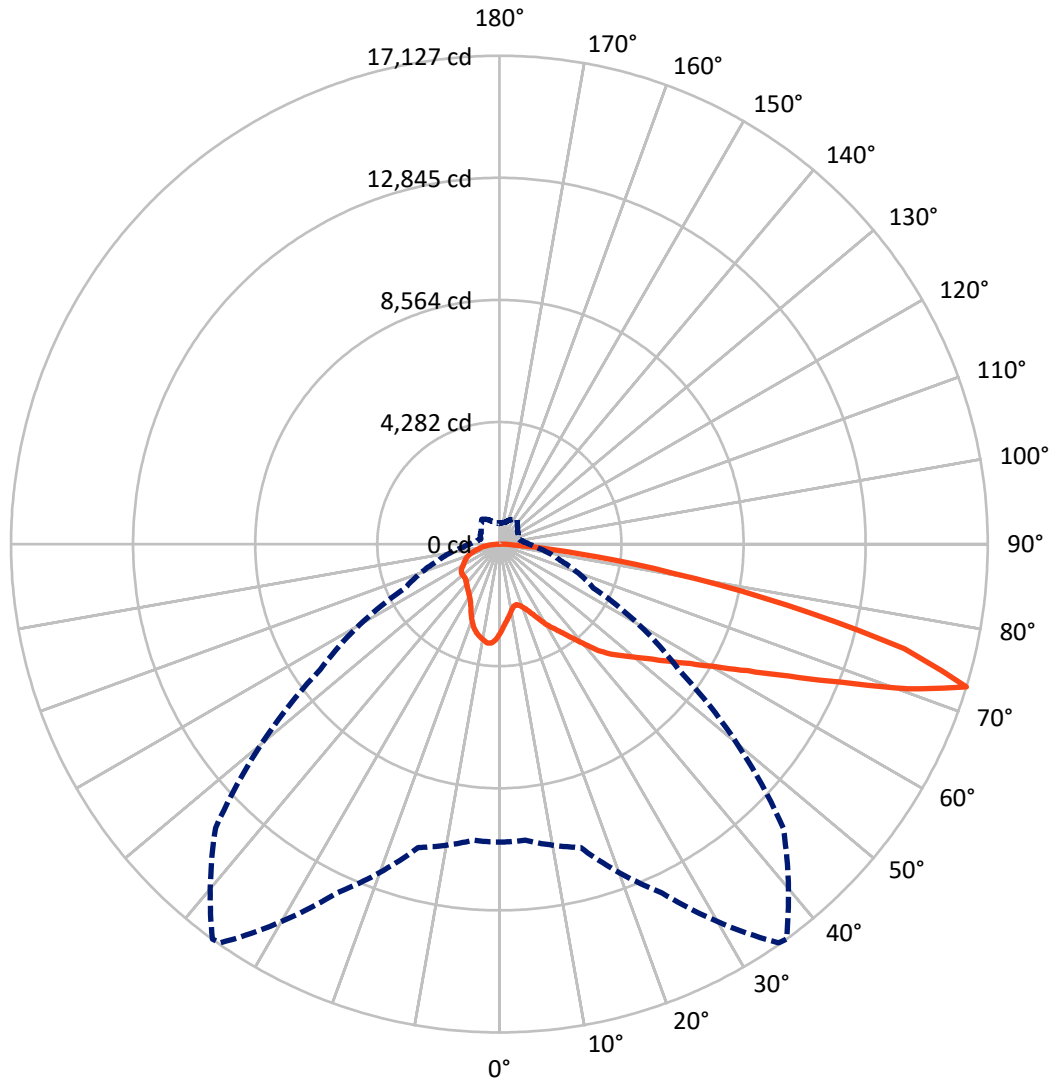
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4927.6	0.0	4927.6
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	16446.1	0.0	16446.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	21373.7	0.0	21373.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	1.4
10°-20°	825.0	3.9
20°-30°	1366.2	6.4
30°-40°	2046.1	9.6
40°-50°	2985.0	14.0
50°-60°	4248.6	19.9
60°-70°	5367.8	25.1
70°-80°	3825.0	17.9
80°-90°	417.6	2.0
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°	21373.7	100.0
0°-180°	21373.7	100.0

Coefficient of Utilization



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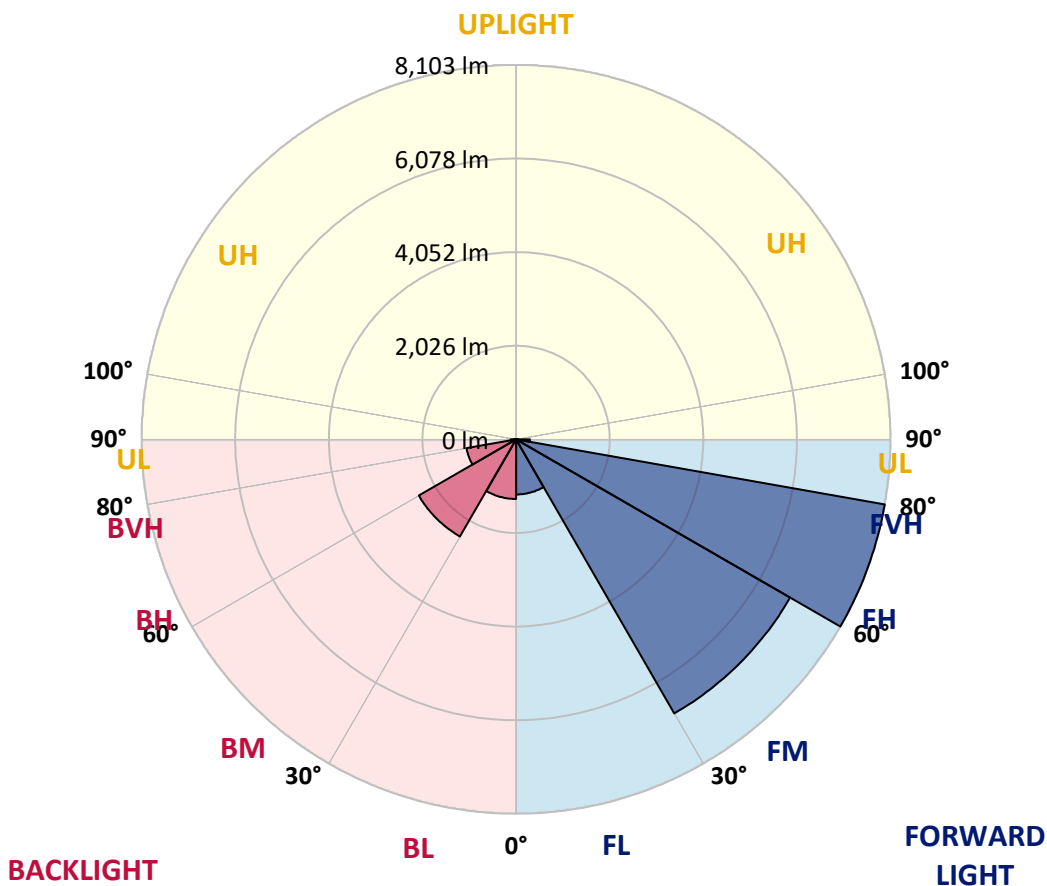
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1193.2	5.6			
FM (30°-60°)	6849.7	32.0			
FH (60°-80°)	8103.5	37.9			G4/12000
FVH (80°-90°)	299.7	1.4			G3/500
BL (0°-30°)	1290.4	6.0	B3/2500		
BM (30°-60°)	2430.0	11.4	B2/2500		
BH (60°-80°)	1089.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	117.9	0.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1
2.5°	2853.7	2849.0	2839.4	2868.0	2896.5	2893.4	2933.0	2971.1	3012.3	3055.2	3112.3
5°	2625.3	2622.1	2614.2	2657.0	2699.8	2698.3	2763.3	2825.2	2909.2	3001.2	3115.4
7.5°	2396.9	2388.9	2400.0	2454.0	2514.2	2520.6	2609.4	2710.9	2833.1	2971.1	3132.9
10°	2195.4	2193.8	2198.6	2258.9	2349.3	2355.6	2469.8	2611.0	2772.8	2956.8	3172.6
12.5°	2143.1	2139.9	2127.2	2157.3	2225.5	2235.1	2360.4	2533.3	2731.6	2964.8	3226.5
15°	2228.7	2220.8	2176.4	2162.1	2195.4	2203.3	2309.6	2487.3	2707.8	2979.0	3294.7
17.5°	2376.2	2371.5	2287.4	2228.7	2250.9	2257.3	2336.6	2479.3	2701.4	3007.6	3378.8
20°	2592.0	2571.4	2439.7	2350.9	2350.9	2360.4	2408.0	2514.2	2709.4	3042.5	3473.9
22.5°	2877.5	2836.3	2650.7	2530.1	2498.4	2511.1	2531.7	2601.5	2742.7	3101.2	3592.9
25°	3197.9	3159.9	2939.4	2769.6	2725.2	2730.0	2712.5	2725.2	2815.6	3182.1	3740.4
27.5°	3539.0	3513.6	3278.8	3063.1	2993.3	2993.3	2931.4	2901.3	2917.2	3274.1	3905.4
30°	3843.5	3808.6	3610.4	3374.0	3282.0	3282.0	3164.6	3099.6	3061.5	3386.7	4125.9
32.5°	4003.8	3983.1	3851.5	3670.6	3558.0	3540.6	3439.0	3362.9	3274.1	3553.3	4424.1
35°	4213.1	4208.4	4129.1	3987.9	3845.1	3819.8	3750.0	3689.7	3535.8	3761.1	4820.7
37.5°	4476.5	4468.5	4455.8	4371.8	4200.5	4195.7	4133.8	4060.9	3861.0	4060.9	5301.3
40°	4771.5	4757.2	4741.4	4739.8	4636.7	4619.2	4614.5	4532.0	4252.8	4422.5	5802.6
42.5°	5177.6	5128.4	4979.3	5045.9	5122.1	5106.2	5166.5	5042.8	4741.4	4852.4	6276.9
45°	5677.3	5556.7	5261.7	5280.7	5472.7	5504.4	5713.8	5683.6	5279.1	5348.9	6776.6
47.5°	5977.1	5872.4	5598.0	5582.1	5821.6	5861.3	6316.6	6373.7	5858.1	5946.9	7393.6
50°	6223.0	6150.0	5924.7	5946.9	6200.8	6240.4	6914.6	7036.7	6403.8	6559.3	8110.6
52.5°	6519.6	6414.9	6240.4	6345.1	6656.0	6703.6	7579.2	7710.9	6895.5	7231.8	8853.0
55°	6686.2	6643.3	6646.5	6806.7	7196.9	7262.0	8275.6	8253.4	7346.0	7807.7	9411.4
57.5°	7070.0	7054.2	7200.1	7260.4	7828.3	7912.3	8972.0	8781.6	7755.3	8253.4	9679.5
60°	7747.4	7707.7	7834.6	7926.6	8608.7	8727.7	9749.3	9298.8	8032.9	8584.9	9589.0
62.5°	8699.1	8650.0	8654.7	8800.7	9654.1	9779.4	10613.8	9730.2	8118.6	8635.7	9016.4
65°	9882.5	9811.1	9730.2	9928.5	11042.1	11146.8	11554.4	10044.3	7913.9	8147.1	7820.3
67.5°	11130.9	11072.2	10977.0	11392.6	12839.3	12902.8	12609.3	10017.3	7265.1	6840.0	5485.3
70°	11203.9	11218.1	11668.6	13172.4	15185.4	15201.3	13607.1	9474.8	5883.5	4433.6	2733.2
72.5°	10452.0	10428.2	11015.1	13497.6	17073.1	17127.0	14078.2	7676.0	3635.7	2211.3	1281.7
75°	8489.8	8531.0	9148.1	11809.8	14633.4	14681.0	11476.7	4525.6	1727.5	1081.8	820.1
77.5°	3654.8	3884.8	5101.5	8320.0	10480.5	10333.0	5915.2	1833.7	921.6	770.9	628.2
80°	1054.9	1145.3	1817.9	3956.2	6280.1	6169.0	2341.3	686.9	642.4	579.0	450.5
82.5°	341.0	377.5	666.2	1575.2	2814.1	2810.9	888.3	406.1	420.4	393.4	290.3
85°	95.2	109.5	204.6	477.5	870.9	853.4	257.0	191.9	223.7	226.8	144.4
87.5°	0.0	0.0	1.6	3.2	3.2	3.2	6.3	28.6	65.0	82.5	58.7
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°	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1	3128.1
2.5°	3147.2	3142.4	3207.5	3258.2	3305.8	3337.5	3347.0	3353.4	3366.1	3372.4	3366.1
5°	3169.4	3193.2	3301.0	3380.4	3443.8	3481.9	3483.5	3480.3	3489.8	3481.9	3477.1
7.5°	3217.0	3263.0	3399.4	3483.5	3524.7	3526.3	3488.2	3443.8	3421.6	3402.6	3396.2
10°	3280.4	3348.6	3497.7	3553.3	3540.6	3481.9	3397.8	3328.0	3288.4	3259.8	3253.5
12.5°	3367.7	3443.8	3585.0	3583.4	3504.1	3399.4	3301.0	3217.0	3159.9	3126.6	3115.4
15°	3450.2	3546.9	3648.4	3573.9	3448.6	3321.7	3194.8	3082.1	3006.0	2953.6	2944.1
17.5°	3551.7	3654.8	3694.4	3543.7	3378.8	3215.4	3045.7	2898.1	2795.0	2733.2	2728.4
20°	3669.1	3761.1	3716.6	3491.4	3288.4	3074.2	2844.2	2679.2	2568.2	2507.9	2512.7
22.5°	3805.5	3872.1	3723.0	3420.0	3163.0	2874.3	2617.4	2458.7	2384.2	2352.4	2354.0
25°	3951.4	3994.2	3711.9	3323.2	2971.1	2630.0	2384.2	2311.2	2304.9	2296.9	2300.1
27.5°	4124.3	4114.8	3678.6	3186.8	2712.5	2346.1	2220.8	2239.8	2265.2	2262.0	2265.2
30°	4355.9	4265.5	3635.7	2998.1	2404.8	2108.2	2124.0	2178.0	2211.3	2214.4	2224.0
32.5°	4620.8	4432.1	3567.5	2741.1	2111.3	1974.9	2033.6	2098.6	2138.3	2146.2	2158.9
35°	4936.5	4622.4	3447.0	2420.7	1900.4	1895.6	1949.5	1993.9	2036.8	2040.0	2040.0
37.5°	5299.7	4812.8	3255.0	2066.9	1770.3	1827.4	1878.2	1887.7	1898.8	1889.3	1894.0
40°	5632.9	4996.8	2982.2	1744.9	1664.0	1767.1	1809.9	1778.2	1743.3	1719.5	1724.3
42.5°	5912.1	5122.1	2620.5	1519.7	1556.1	1713.2	1746.5	1681.5	1613.2	1568.8	1575.2
45°	6226.1	5237.9	2195.4	1367.4	1464.1	1675.1	1697.3	1613.2	1526.0	1459.4	1449.9
47.5°	6659.2	5474.2	1817.9	1261.1	1399.1	1654.5	1691.0	1576.8	1462.5	1362.6	1351.5
50°	7193.8	5808.9	1502.2	1191.3	1369.0	1643.4	1689.4	1537.1	1400.7	1283.3	1275.4
52.5°	7777.5	6135.7	1269.0	1137.4	1338.8	1610.1	1681.5	1492.7	1335.6	1208.7	1199.2
55°	8166.2	6264.2	1112.0	1086.6	1289.6	1557.7	1649.7	1449.9	1237.3	1121.5	1107.2
57.5°	8280.4	6099.2	1002.5	1040.6	1226.2	1484.8	1589.4	1359.4	1177.0	1085.0	1073.9
60°	8083.7	5683.6	934.3	1002.5	1156.4	1391.2	1484.8	1307.1	1129.4	1046.9	1039.0
62.5°	7528.5	5042.8	882.0	962.9	1085.0	1292.8	1418.1	1243.6	1077.1	1012.0	1000.9
65°	6411.7	4135.4	839.1	921.6	1016.8	1199.2	1345.2	1180.2	1020.0	970.8	958.1
67.5°	4484.4	2904.5	793.1	872.5	948.6	1108.8	1269.0	1121.5	961.3	924.8	912.1
70°	2192.2	1540.3	737.6	815.3	875.6	1016.8	1192.9	1050.1	883.6	862.9	845.5
72.5°	1043.8	861.3	672.6	737.6	775.7	894.7	1066.0	947.0	791.6	747.1	717.0
75°	699.5	612.3	586.9	645.6	655.1	750.3	913.7	816.9	698.0	647.2	621.8
77.5°	529.8	468.0	493.3	545.7	526.6	617.1	751.9	728.1	629.8	583.7	571.1
80°	372.8	341.0	391.8	423.5	409.3	525.1	677.3	623.4	518.7	468.0	458.4
82.5°	234.8	228.4	288.7	293.5	298.2	415.6	556.8	490.2	402.9	331.5	307.7
85°	117.4	130.1	172.9	172.9	171.3	214.1	317.3	276.0	217.3	172.9	168.1
87.5°	39.7	55.5	74.6	60.3	46.0	36.5	41.2	50.8	53.9	52.3	52.3
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)