

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: P637886

Luminaire Tested: GWS-SA4D-760-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-760-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

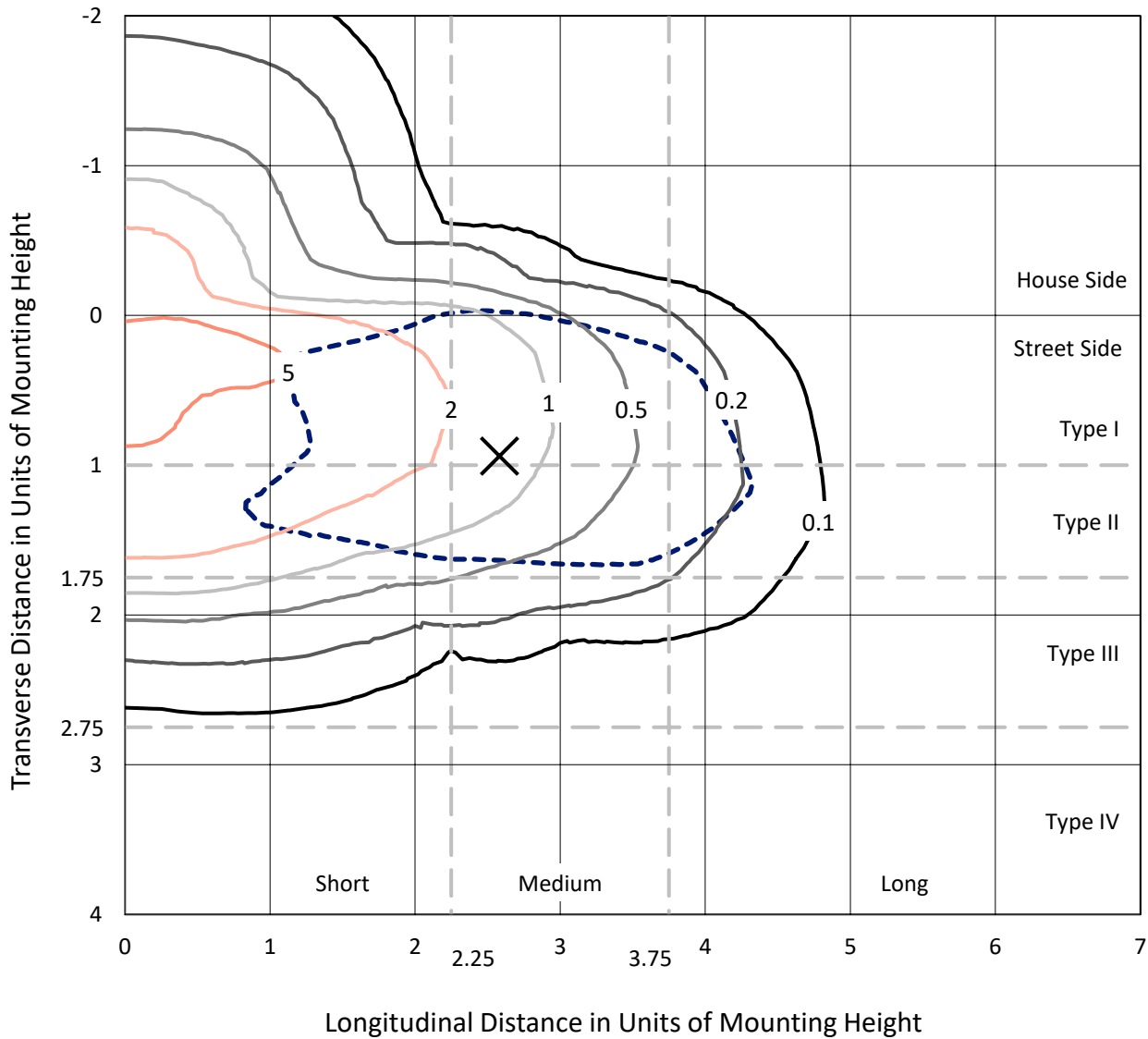
Lumens per Lamp: N/A  
Luminaire Lumens: 24512.9 lumens  
Efficiency: N/A  
Efficacy: 151.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

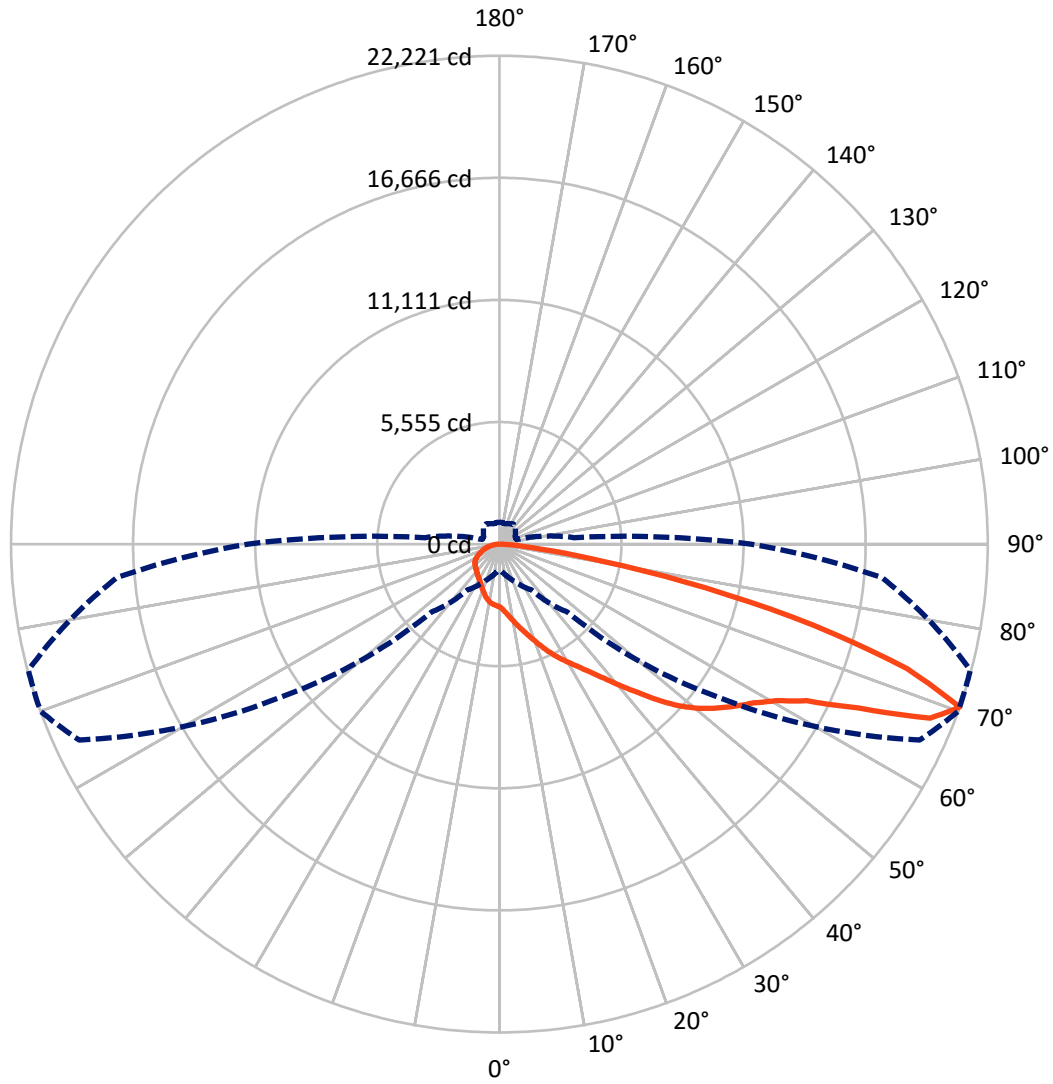
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4392.8	0.0	4392.8
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	20120.1	0.0	20120.1
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	24512.9	0.0	24512.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.6	1.2
10°-20°	945.2	3.9
20°-30°	1674.4	6.8
30°-40°	2520.0	10.3
40°-50°	3812.5	15.6
50°-60°	5461.6	22.3
60°-70°	6037.2	24.6
70°-80°	3406.9	13.9
80°-90°	364.4	1.5
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°	24512.9	100.0
0°-180°	24512.9	100.0

**Coefficient of Utilization**



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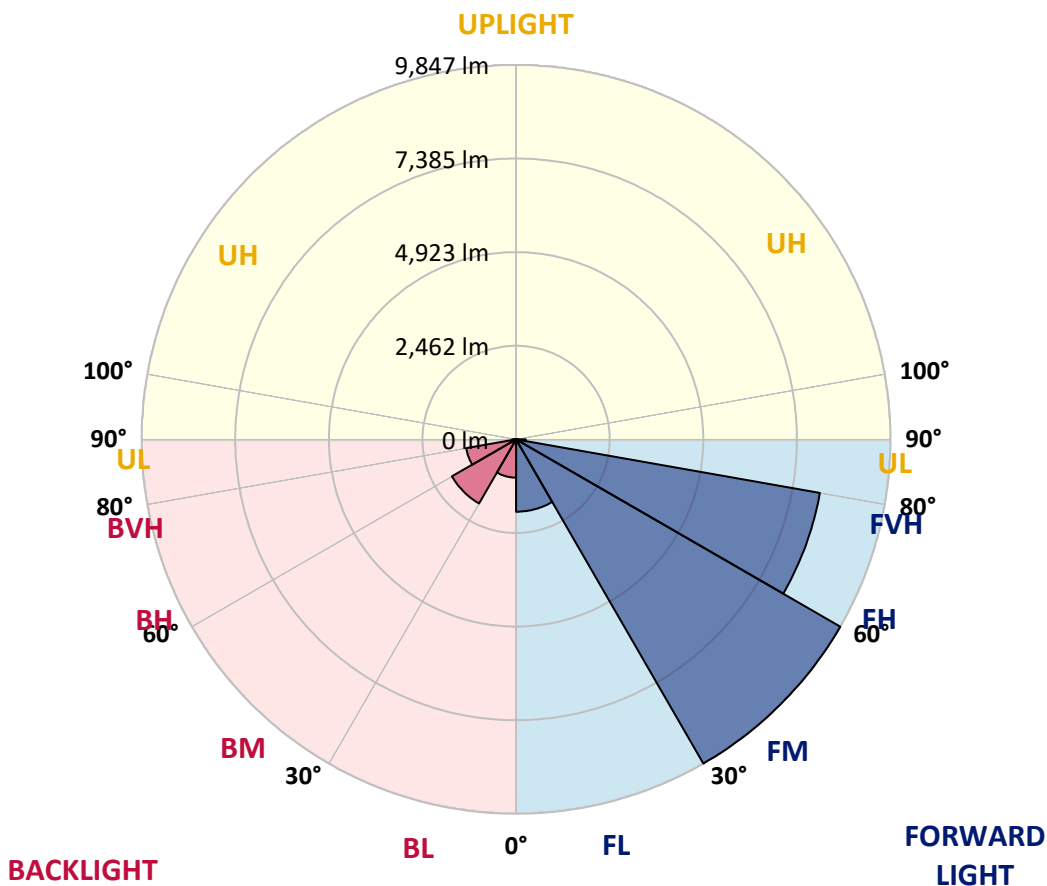
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1902.9	7.8			
FM (30°-60°)	9846.8	40.2			
FH (60°-80°)	8112.8	33.1			G4/12000
FVH (80°-90°)	257.6	1.1			G3/500
BL (0°-30°)	1007.2	4.1	B3/2500		
BM (30°-60°)	1947.3	7.9	B2/2500		
BH (60°-80°)	1331.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	106.8	0.4			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7
2.5°	3166.9	3161.6	3165.1	3161.6	3142.1	3094.3	3055.3	3005.7	2972.1	2952.6	2906.5
5°	3538.9	3533.5	3521.1	3503.4	3468.0	3402.5	3305.1	3197.0	3131.5	3081.9	2984.5
7.5°	3806.3	3806.3	3804.5	3783.3	3758.5	3689.4	3574.3	3432.6	3336.9	3251.9	3092.5
10°	3942.7	3951.5	3963.9	3994.0	3988.7	3951.5	3843.5	3691.2	3570.7	3471.5	3234.2
12.5°	4017.1	4022.4	4043.6	4105.6	4169.4	4178.3	4114.5	3955.1	3824.0	3691.2	3391.8
15°	4112.7	4114.5	4142.8	4217.2	4311.1	4405.0	4389.0	4229.6	4095.0	3948.0	3567.2
17.5°	4187.1	4199.5	4250.9	4337.7	4454.6	4583.9	4661.8	4562.6	4396.1	4227.8	3758.5
20°	4213.7	4222.5	4289.8	4422.7	4582.1	4764.5	4938.1	4911.5	4743.3	4544.9	3974.6
22.5°	4309.3	4309.3	4358.9	4470.5	4658.2	4923.9	5205.5	5274.6	5125.8	4893.8	4206.6
25°	4520.1	4513.0	4536.0	4582.1	4723.8	5051.5	5469.5	5676.7	5510.2	5249.8	4438.6
27.5°	4808.8	4805.3	4803.5	4810.6	4858.4	5163.0	5692.6	6052.2	5885.7	5591.7	4645.8
30°	5122.3	5111.7	5134.7	5113.4	5102.8	5295.9	5882.1	6388.7	6259.4	5930.0	4817.7
32.5°	5549.2	5529.7	5524.4	5455.3	5412.8	5503.1	6034.5	6771.3	6668.6	6294.8	5010.7
35°	6112.4	6094.7	6004.4	5894.5	5768.8	5811.3	6224.0	7145.0	7152.1	6751.8	5264.0
37.5°	6681.0	6684.5	6613.6	6355.1	6225.8	6201.0	6512.7	7600.2	7752.5	7297.3	5591.7
40°	7153.9	7175.1	7175.1	6902.4	6709.3	6686.3	6918.3	8140.4	8443.3	7966.8	6006.1
42.5°	7513.4	7532.9	7594.9	7398.3	7194.6	7274.3	7410.7	8682.4	9226.2	8794.0	6530.4
45°	7908.4	7924.3	7958.0	7844.6	7726.0	7938.5	7968.6	9330.7	10122.4	9722.1	7139.7
47.5°	8432.7	8418.5	8422.0	8338.8	8246.7	8590.3	8583.2	9876.2	10988.5	10738.8	7800.4
50°	9084.5	9111.0	9086.2	8921.5	8813.5	9127.0	9167.7	10480.2	11750.1	11744.8	8466.3
52.5°	9711.5	9722.1	9853.2	9860.3	9638.9	9573.3	9679.6	11089.5	12393.1	12665.8	9105.7
55°	9743.4	9784.1	10177.3	10460.7	10818.5	10292.4	10196.8	11670.4	13014.8	13567.4	9769.9
57.5°	9065.0	9130.5	9798.3	10409.3	11404.7	11526.9	11082.4	12421.4	13636.4	14454.7	10538.6
60°	7616.1	7752.5	8659.4	9594.6	11140.8	12414.3	12894.3	13441.6	14453.0	15361.6	11472.0
62.5°	4863.7	4916.8	6188.6	7754.3	9952.4	12327.5	14867.4	15239.4	15696.3	16543.0	12910.3
65°	2435.4	2605.4	3351.1	4628.1	7176.9	10862.8	15864.6	18532.0	17972.3	18565.7	15241.1
67.5°	1652.5	1707.4	2084.7	2780.8	4208.4	7695.9	15246.5	21305.7	21141.0	21238.4	17726.1
70°	1218.6	1254.0	1551.6	1969.6	2545.2	4369.5	12138.0	21096.7	22221.4	22186.0	17465.8
72.5°	889.1	906.9	1131.8	1503.7	1886.3	2260.0	7412.5	17042.5	19398.1	20420.1	15274.8
75°	646.5	667.7	786.4	1124.7	1466.6	1409.9	3659.3	12309.8	14793.0	16759.1	12444.4
77.5°	481.8	508.3	563.2	704.9	1027.3	1009.6	1581.7	7993.4	9568.0	10946.0	7559.5
80°	347.2	352.5	384.3	451.7	651.8	591.6	752.8	4167.6	4778.7	5235.7	2963.2
82.5°	210.8	216.1	256.8	278.1	403.8	372.0	391.4	1349.7	1934.1	2052.8	1107.0
85°	62.0	65.5	116.9	127.5	168.3	159.4	157.6	549.1	655.3	837.8	435.7
87.5°	0.0	0.0	0.0	0.0	1.8	10.6	19.5	97.4	147.0	203.7	106.3
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°	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7	2858.7
2.5°	2888.8	2848.1	2826.8	2789.6	2763.1	2736.5	2709.9	2685.1	2674.5	2658.6	2662.1
5°	2940.2	2876.4	2812.7	2740.0	2678.0	2626.7	2580.6	2539.9	2522.2	2506.2	2513.3
7.5°	3018.1	2922.5	2800.3	2667.4	2570.0	2499.2	2451.3	2423.0	2414.1	2401.7	2401.7
10°	3117.3	2973.8	2759.5	2570.0	2453.1	2396.4	2375.2	2373.4	2382.3	2384.0	2380.5
12.5°	3227.1	3023.4	2699.3	2454.9	2355.7	2338.0	2353.9	2384.0	2414.1	2430.1	2426.5
15°	3340.5	3055.3	2596.6	2345.1	2284.8	2307.9	2359.2	2419.5	2477.9	2508.0	2506.2
17.5°	3446.7	3062.4	2463.7	2238.8	2222.9	2281.3	2369.9	2463.7	2543.4	2585.9	2587.7
20°	3565.4	3050.0	2327.4	2143.1	2160.9	2256.5	2373.4	2486.8	2580.6	2623.1	2633.8
22.5°	3673.5	3007.5	2194.5	2052.8	2107.7	2226.4	2345.1	2451.3	2534.6	2575.3	2589.5
25°	3770.9	2926.0	2049.3	1976.7	2067.0	2183.9	2274.2	2348.6	2407.1	2431.9	2451.3
27.5°	3824.0	2803.8	1939.5	1916.4	2028.0	2123.7	2173.3	2196.3	2215.8	2208.7	2222.9
30°	3834.6	2651.5	1843.8	1868.6	1969.6	2040.4	2051.0	2028.0	1994.4	1939.5	1951.9
32.5°	3824.0	2476.1	1764.1	1817.2	1904.0	1946.5	1932.4	1872.2	1790.7	1705.7	1711.0
35°	3827.6	2299.0	1698.6	1760.6	1827.9	1850.9	1815.5	1732.2	1645.4	1567.5	1564.0
37.5°	3866.5	2150.2	1643.7	1705.7	1753.5	1757.0	1718.1	1631.3	1587.0	1528.5	1521.5
40°	3974.6	2040.4	1594.1	1650.8	1680.9	1679.1	1634.8	1572.8	1602.9	1583.5	1578.1
42.5°	4151.7	1973.1	1553.3	1592.3	1613.6	1617.1	1581.7	1542.7	1608.2	1583.5	1574.6
45°	4436.8	1969.6	1525.0	1533.9	1567.5	1592.3	1567.5	1523.2	1548.0	1427.6	1404.6
47.5°	4775.1	2029.8	1503.7	1482.5	1540.9	1585.2	1546.3	1475.4	1424.0	1314.2	1298.3
50°	5182.5	2152.0	1484.3	1427.6	1502.0	1558.7	1519.7	1422.3	1344.3	1285.9	1277.0
52.5°	5666.1	2313.2	1459.5	1365.6	1443.5	1544.5	1519.7	1417.0	1314.2	1261.1	1252.2
55°	6172.6	2499.2	1431.1	1291.2	1378.0	1548.0	1532.1	1379.8	1291.2	1262.9	1255.8
57.5°	6801.4	2722.3	1379.8	1204.4	1319.5	1516.1	1482.5	1358.5	1275.3	1252.2	1245.2
60°	7617.9	3053.5	1282.3	1115.9	1252.2	1459.5	1438.2	1323.1	1232.8	1213.3	1208.0
62.5°	8910.9	3615.0	1163.7	1030.8	1172.5	1340.8	1372.7	1255.8	1179.6	1177.8	1176.1
65°	11018.6	4289.8	1023.8	954.7	1089.3	1243.4	1285.9	1186.7	1124.7	1144.2	1142.4
67.5°	12495.8	4348.3	908.6	875.0	991.9	1137.1	1199.1	1115.9	1048.5	1085.7	1084.0
70°	11445.5	3391.8	809.4	791.7	887.4	1022.0	1105.2	1027.3	960.0	995.4	988.3
72.5°	9653.0	2600.1	715.6	704.9	781.1	901.5	984.8	938.7	867.9	867.9	851.9
75°	7757.8	2144.9	616.4	611.1	662.4	779.3	873.2	795.3	729.7	726.2	715.6
77.5°	4449.2	1406.3	517.2	513.6	529.6	651.8	678.4	662.4	612.8	589.8	582.7
80°	1773.0	731.5	407.4	384.3	400.3	478.2	534.9	508.3	465.8	437.5	421.5
82.5°	687.2	366.6	286.9	251.5	274.5	345.4	387.9	379.0	350.7	286.9	269.2
85°	279.8	178.9	171.8	145.2	159.4	186.0	223.2	193.1	159.4	113.4	108.0
87.5°	74.4	65.5	63.8	39.0	30.1	8.9	1.8	0.0	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)