

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: P638275

Luminaire Tested: GWS-SA4E-740-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638275  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31204.8 lumens  
Efficiency: N/A  
Efficacy: 154.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 202.6  
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

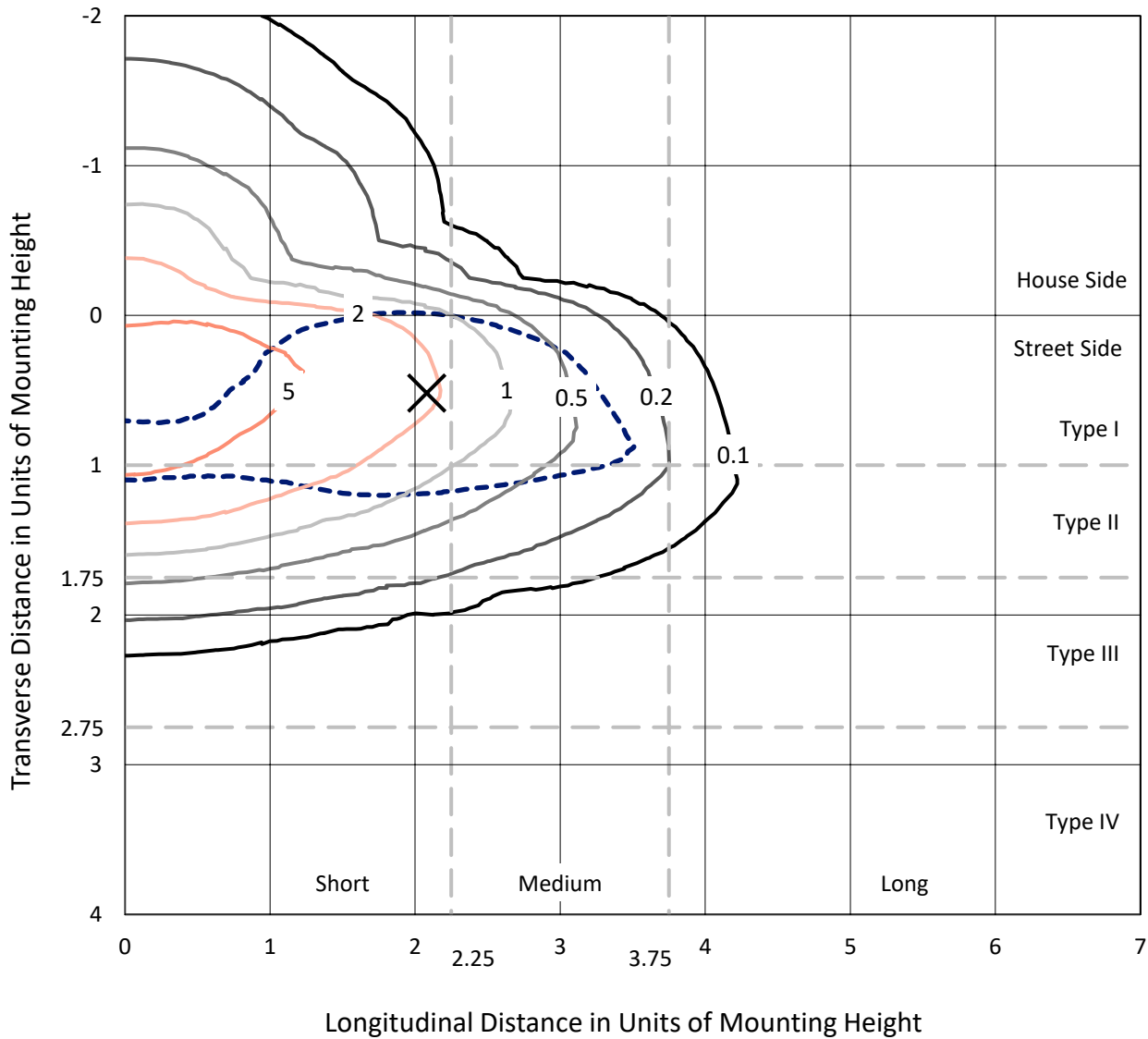


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### Iso-Footcandle Lines of Horizontal Illumination

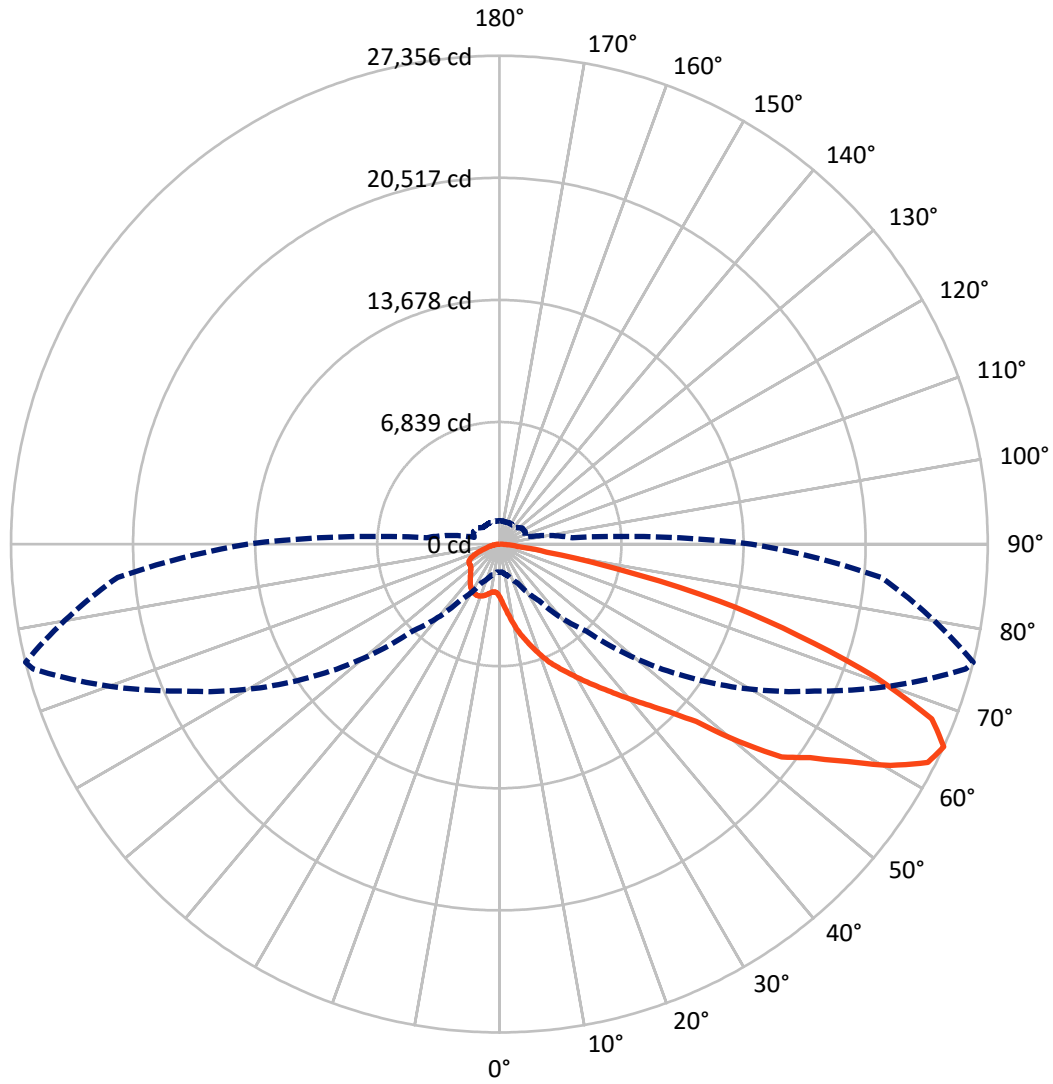
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5215.9	0.0	5215.9
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	25988.9	0.0	25988.9
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	31204.8	0.0	31204.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.1	1.1
10°-20°	1337.2	4.3
20°-30°	2606.0	8.4
30°-40°	4358.3	14.0
40°-50°	6240.3	20.0
50°-60°	7387.6	23.7
60°-70°	6142.9	19.7
70°-80°	2513.8	8.1
80°-90°	267.6	0.9
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°	31204.8	100.0
0°-180°	31204.8	100.0

**Coefficient of Utilization**



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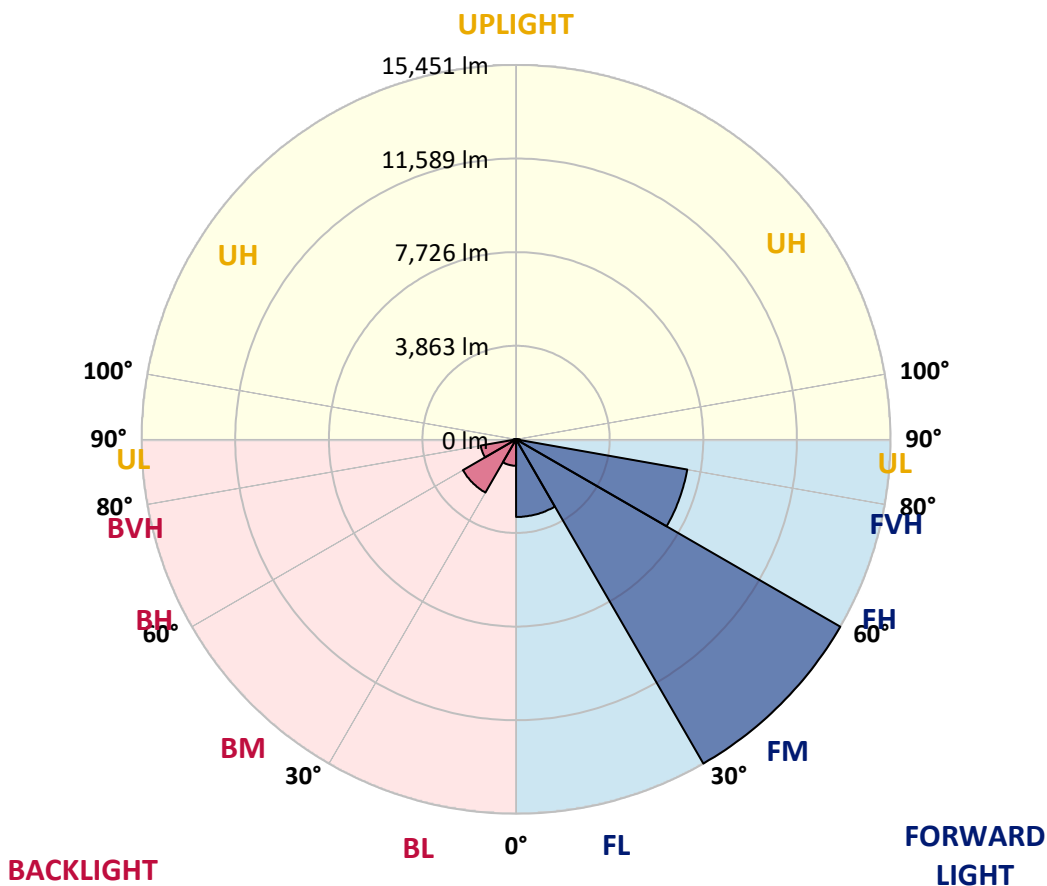
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3203.1	10.3			
FM (30°-60°)	15451.4	49.5			
FH (60°-80°)	7174.8	23.0			G3/7500
FVH (80°-90°)	159.6	0.5			G2/225
BL (0°-30°)	1091.2	3.5	B3/2500		
BM (30°-60°)	2534.8	8.1	B3/5000		
BH (60°-80°)	1481.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	108.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0
2.5°	4141.8	4157.2	4106.7	4089.1	3970.7	3810.5	3676.7	3474.9	3288.4	3259.9	3093.2
5°	5260.6	5194.8	5137.8	5100.5	4935.9	4753.9	4470.9	4091.3	3694.3	3646.0	3286.2
7.5°	5925.3	5914.3	5844.1	5822.2	5695.0	5512.9	5221.1	4749.5	4172.5	4093.5	3547.3
10°	6458.4	6451.8	6416.7	6436.5	6320.2	6142.5	5859.5	5372.5	4696.8	4617.8	3839.1
12.5°	6923.5	6934.4	6927.9	7000.3	6941.0	6802.8	6508.9	5973.6	5221.1	5135.6	4194.4
15°	7263.5	7272.3	7305.2	7463.1	7496.0	7467.5	7169.2	6563.7	5738.8	5616.0	4560.8
17.5°	7360.0	7377.6	7456.6	7711.0	7888.7	8007.2	7785.6	7164.8	6247.8	6114.0	4933.7
20°	7489.5	7509.2	7588.2	7853.6	8114.7	8384.5	8345.0	7774.6	6761.1	6651.4	5311.1
22.5°	8088.4	8073.0	8037.9	8165.1	8351.6	8687.2	8786.0	8360.4	7292.0	7186.7	5727.9
25°	9242.3	9213.7	8990.0	8873.7	8812.3	9016.3	9191.8	8893.5	7809.7	7651.8	6116.2
27.5°	10514.6	10499.3	10214.1	9937.7	9560.4	9472.6	9575.7	9358.5	8312.1	8152.0	6454.0
30°	11719.0	11672.9	11374.6	11028.0	10523.4	10146.1	9994.7	9814.8	8862.7	8696.0	6848.9
32.5°	12796.1	12736.9	12385.9	12002.0	11473.3	11028.0	10576.1	10299.6	9485.8	9292.7	7252.5
35°	13680.2	13621.0	13261.2	12853.2	12271.8	11942.8	11324.1	10826.1	10119.8	9924.5	7728.6
37.5°	14364.7	14309.8	13934.7	13533.2	13026.5	12765.4	12228.0	11418.5	10850.3	10646.3	8233.1
40°	14748.6	14709.1	14408.5	14090.4	13664.9	13438.9	13197.6	12166.5	11668.5	11464.5	8827.6
42.5°	14864.8	14838.5	14627.9	14463.4	14176.0	14004.9	14143.1	13046.2	12541.7	12364.0	9496.7
45°	14573.1	14573.1	14511.6	14595.0	14608.2	14606.0	15090.8	14040.0	13614.4	13419.2	10440.0
47.5°	13827.2	13875.5	13965.4	14375.6	14807.8	15169.8	16198.6	15365.0	14994.3	14834.1	11776.0
50°	12462.7	12594.3	12901.4	13702.2	14621.3	15542.7	17247.3	17324.0	17677.2	17394.2	13741.6
52.5°	10464.2	10444.4	11227.6	12368.4	13770.2	15558.1	17824.2	19052.7	20002.6	19807.4	15202.7
55°	8316.5	8283.6	9014.1	10587.0	12464.9	14970.1	18170.8	19844.6	21292.5	21117.0	16516.7
57.5°	6368.5	6326.8	6976.1	8395.5	10622.1	13721.9	18105.0	20788.0	23067.3	22977.3	18302.4
60°	4383.1	4332.7	4940.3	6182.0	8441.5	11813.3	17376.7	21272.8	25144.7	25175.5	20213.2
62.5°	2632.5	2604.0	3044.9	4008.0	6072.3	9448.5	15672.1	20978.8	26798.8	26937.0	21441.7
65°	1588.3	1568.5	1827.4	2391.2	3852.2	6895.0	13044.0	19476.1	27038.0	27356.0	21470.2
67.5°	1156.1	1158.3	1232.9	1456.6	2246.4	4453.3	9788.5	16782.2	25791.9	26121.0	20116.7
70°	1004.7	1009.1	1048.6	1099.1	1357.9	2549.1	6364.1	13248.0	22108.6	22363.1	16872.1
72.5°	892.9	892.9	919.2	945.5	1061.8	1553.2	3409.1	9259.8	17449.1	17517.1	12877.3
75°	785.4	778.8	791.9	805.1	921.4	1085.9	1658.5	6451.8	12888.3	12730.3	8323.1
77.5°	625.2	618.6	620.8	634.0	739.3	776.6	840.2	4029.9	7263.5	6855.5	3676.7
80°	445.3	440.9	465.1	498.0	546.2	476.0	526.5	1950.2	2880.4	2680.8	1425.9
82.5°	265.4	274.2	311.5	337.8	377.3	298.3	340.0	651.5	1020.1	993.8	579.1
85°	37.3	39.5	111.9	129.4	162.3	116.3	179.9	294.0	408.0	436.6	204.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.4	52.6	116.3	118.5	50.5
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°	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0	2955.0
2.5°	3007.6	2904.5	2757.5	2634.7	2531.6	2448.2	2378.0	2325.4	2310.0	2288.1	2288.1
5°	3117.3	2930.8	2667.6	2481.1	2373.6	2310.0	2266.1	2244.2	2233.2	2220.1	2213.5
7.5°	3268.7	3007.6	2652.2	2463.6	2380.2	2340.7	2312.2	2299.0	2290.3	2277.1	2277.1
10°	3477.1	3121.7	2700.5	2525.0	2459.2	2419.7	2386.8	2364.9	2345.1	2325.4	2321.0
12.5°	3703.0	3270.9	2788.3	2608.4	2538.2	2489.9	2443.8	2410.9	2386.8	2362.7	2356.1
15°	3953.1	3424.4	2882.6	2689.5	2601.8	2536.0	2481.1	2430.7	2397.8	2362.7	2358.3
17.5°	4198.8	3580.2	2961.6	2744.4	2632.5	2551.3	2472.4	2406.5	2364.9	2325.4	2314.4
20°	4492.8	3736.0	3016.4	2759.7	2625.9	2518.4	2424.1	2340.7	2294.7	2248.6	2242.0
22.5°	4762.6	3880.7	3042.7	2737.8	2575.5	2448.2	2338.5	2248.6	2198.1	2152.1	2143.3
25°	5023.7	4008.0	3031.8	2685.1	2498.7	2351.7	2237.6	2147.7	2099.4	2051.2	2038.0
27.5°	5276.0	4093.5	2987.9	2604.0	2402.2	2244.2	2134.5	2053.3	2011.7	1970.0	1952.4
30°	5523.9	4172.5	2919.9	2498.7	2279.3	2132.3	2042.4	1985.3	1943.7	1899.8	1886.6
32.5°	5773.9	4229.5	2816.8	2375.8	2154.3	2033.6	1978.8	1937.1	1893.2	1849.3	1836.2
35°	6026.2	4253.7	2691.7	2235.4	2049.0	1970.0	1950.2	1902.0	1842.7	1790.1	1772.5
37.5°	6326.8	4275.6	2536.0	2097.2	1956.8	1939.3	1934.9	1862.5	1792.3	1719.9	1700.2
40°	6688.7	4304.1	2375.8	1972.2	1882.2	1928.3	1910.8	1812.0	1671.6	1601.4	1579.5
42.5°	7131.9	4356.8	2209.1	1858.1	1827.4	1886.6	1866.9	1689.2	1594.9	1555.4	1544.4
45°	7783.4	4549.8	2042.4	1768.2	1785.7	1827.4	1796.7	1616.8	1579.5	1553.2	1540.0
47.5°	8943.9	4846.0	1897.6	1700.2	1752.8	1774.7	1656.3	1597.0	1568.5	1533.4	1518.1
50°	10150.5	4975.4	1781.3	1658.5	1715.5	1726.5	1579.5	1570.7	1551.0	1513.7	1498.3
52.5°	10966.5	4957.9	1711.1	1643.1	1684.8	1643.1	1544.4	1542.2	1529.0	1485.2	1467.6
55°	11887.9	4988.6	1680.4	1647.5	1671.6	1502.7	1500.5	1507.1	1500.5	1452.3	1443.5
57.5°	13131.8	5082.9	1665.1	1662.9	1662.9	1434.7	1458.8	1467.6	1454.5	1432.5	1425.9
60°	14327.4	5089.5	1636.5	1680.4	1656.3	1393.0	1410.6	1419.4	1404.0	1399.6	1397.4
62.5°	14777.1	4773.6	1572.9	1667.2	1630.0	1347.0	1360.1	1364.5	1349.2	1360.1	1357.9
65°	14108.0	4102.3	1467.6	1603.6	1548.8	1305.3	1296.5	1307.5	1281.1	1309.7	1311.9
67.5°	12526.3	3259.9	1307.5	1483.0	1434.7	1259.2	1241.7	1241.7	1197.8	1241.7	1239.5
70°	10100.0	2303.4	1072.7	1289.9	1309.7	1204.4	1195.6	1145.1	1074.9	1140.7	1134.2
72.5°	7656.2	1654.1	844.6	1020.1	1127.6	1127.6	1129.8	1044.2	963.1	993.8	967.4
75°	4850.4	1164.9	675.7	781.0	884.1	989.4	1039.8	881.9	809.5	796.3	783.2
77.5°	2185.0	765.6	526.5	598.9	627.4	781.0	949.9	759.0	660.3	631.8	623.0
80°	914.8	476.0	375.1	423.4	386.1	655.9	838.0	590.1	484.8	445.3	416.8
82.5°	401.5	283.0	239.1	228.1	241.3	487.0	625.2	392.7	302.7	410.2	414.6
85°	168.9	149.2	122.8	111.9	98.7	186.5	294.0	153.6	188.7	107.5	87.7
87.5°	39.5	43.9	32.9	21.9	13.2	2.2	0.0	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)