

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: P635796

Luminaire Tested: GWS-SA3E-740-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635796  
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-SA3E-740-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

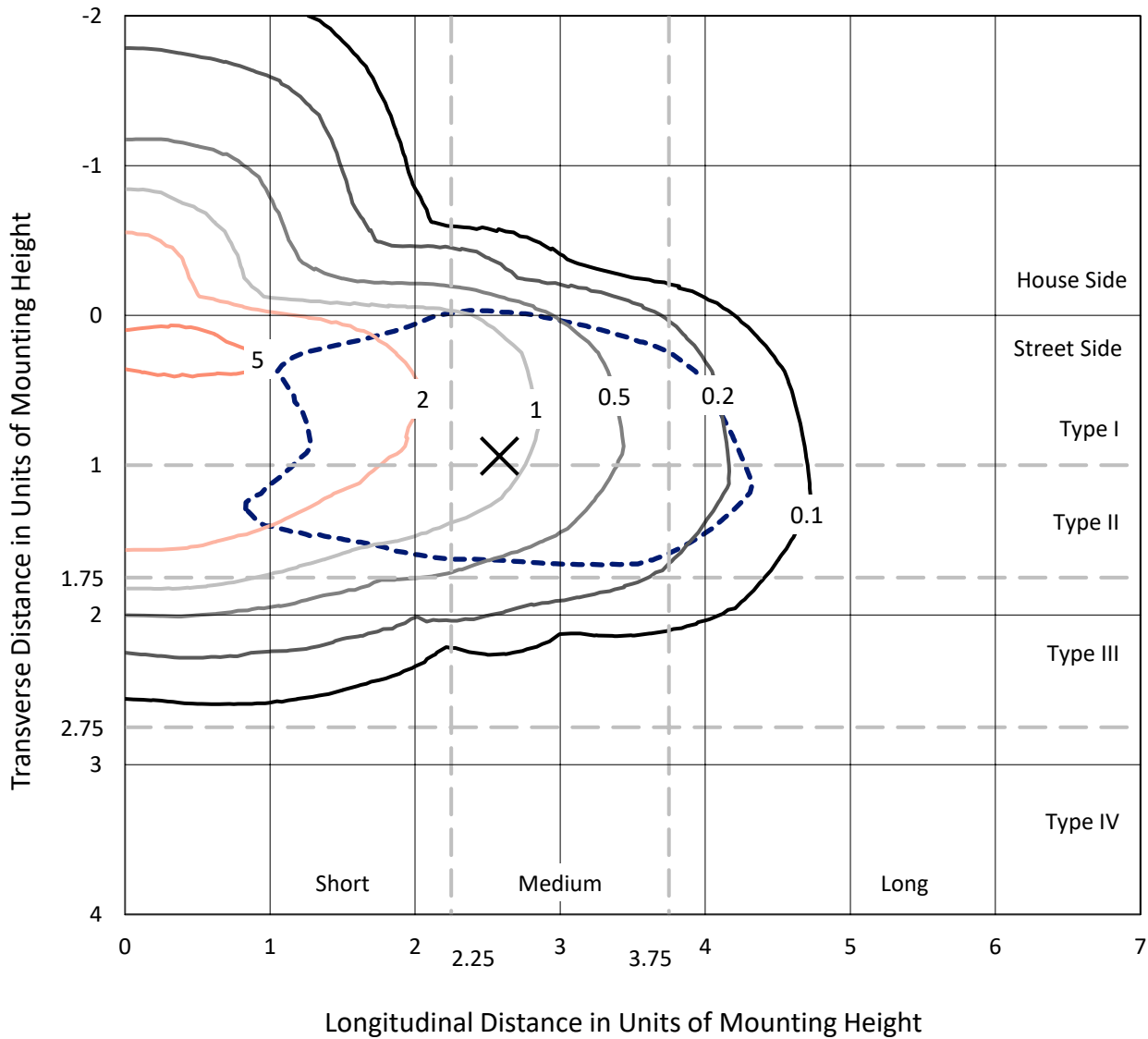
Lumens per Lamp: N/A  
Luminaire Lumens: 21818.9 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

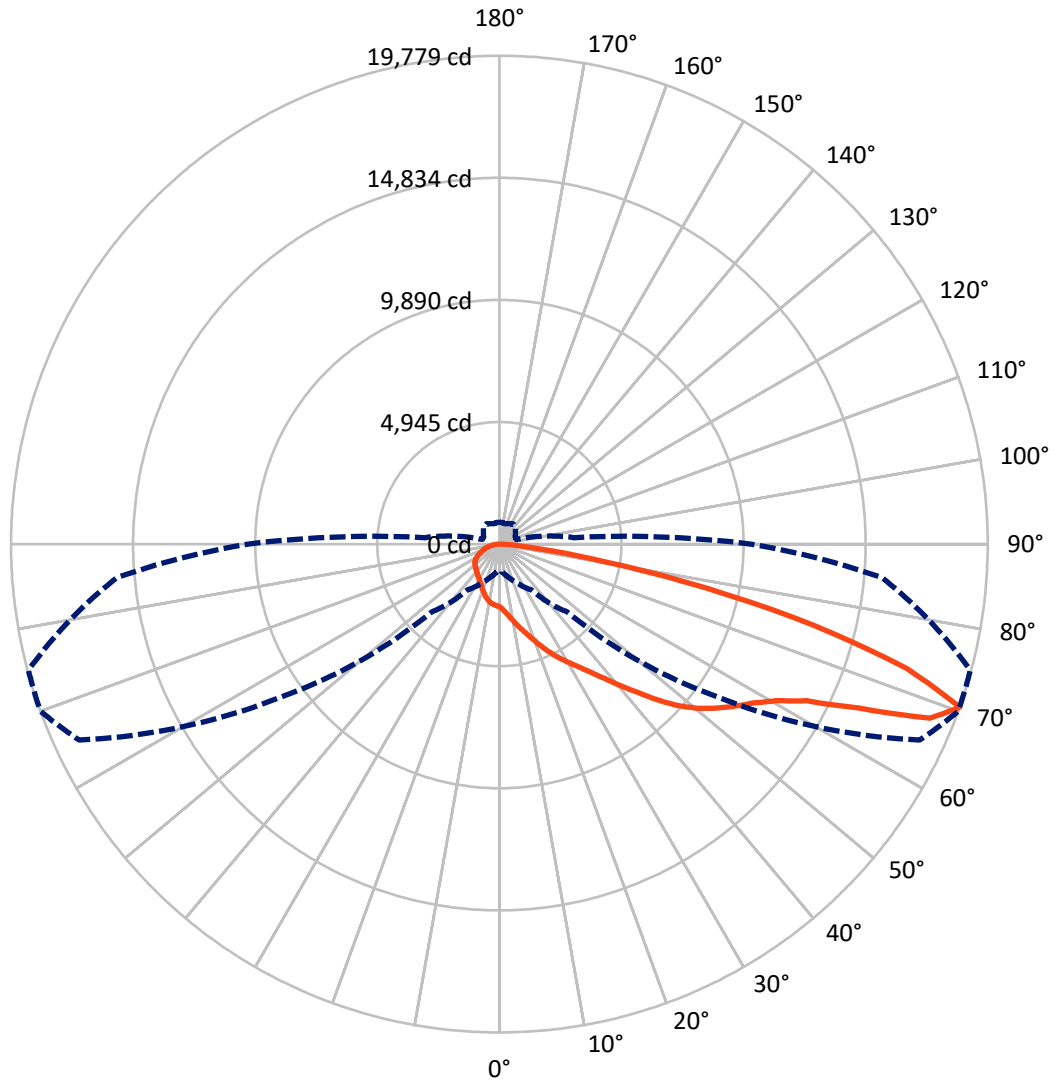
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	3910.0	0.0	3910.0
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	17908.9	0.0	17908.9
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	21818.9	0.0	21818.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.6	1.2
10°-20°	841.3	3.9
20°-30°	1490.4	6.8
30°-40°	2243.1	10.3
40°-50°	3393.5	15.6
50°-60°	4861.4	22.3
60°-70°	5373.7	24.6
70°-80°	3032.5	13.9
80°-90°	324.4	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°	21818.9	100.0
0°-180°	21818.9	100.0

**Coefficient of Utilization**



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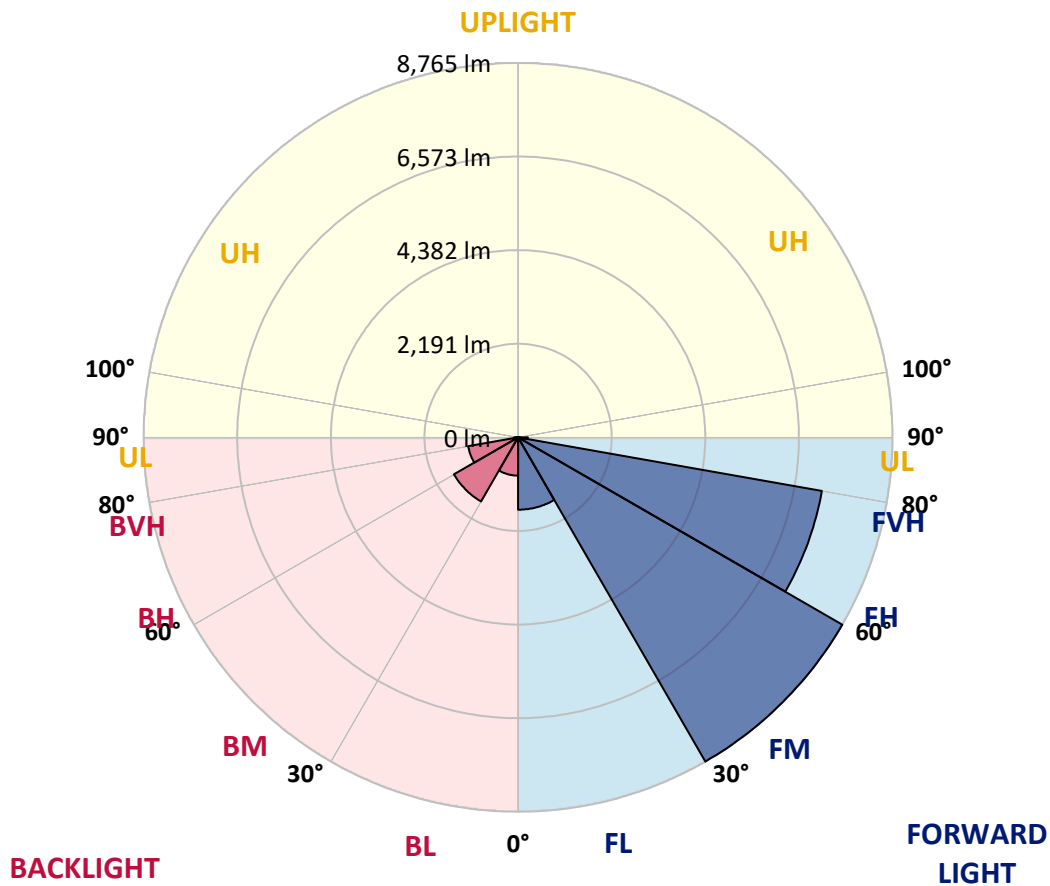
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.8	7.8			
FM (30°-60°)	8764.6	40.2			
FH (60°-80°)	7221.2	33.1			G3/7500
FVH (80°-90°)	229.3	1.1			G3/500
BL (0°-30°)	896.5	4.1	B2/1000		
BM (30°-60°)	1733.3	7.9	B2/2500		
BH (60°-80°)	1185.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	95.1	0.4			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5
2.5°	2818.9	2814.1	2817.3	2814.1	2796.8	2754.2	2719.5	2675.4	2645.4	2628.1	2587.1
5°	3149.9	3145.2	3134.2	3118.4	3086.9	3028.5	2941.8	2845.7	2787.3	2743.2	2656.5
7.5°	3388.0	3388.0	3386.4	3367.5	3345.4	3283.9	3181.5	3055.3	2970.2	2894.5	2752.6
10°	3509.4	3517.3	3528.3	3555.1	3550.4	3517.3	3421.1	3285.5	3178.3	3090.0	2878.8
12.5°	3575.6	3580.3	3599.2	3654.4	3711.2	3719.1	3662.3	3520.4	3403.7	3285.5	3019.1
15°	3660.7	3662.3	3687.5	3753.7	3837.3	3920.9	3906.7	3764.8	3645.0	3514.1	3175.2
17.5°	3726.9	3738.0	3783.7	3860.9	3965.0	4080.1	4149.5	4061.2	3913.0	3763.2	3345.4
20°	3750.6	3758.5	3818.4	3936.6	4078.5	4240.9	4395.4	4371.7	4222.0	4045.4	3537.8
22.5°	3835.7	3835.7	3879.9	3979.2	4146.3	4382.8	4633.5	4694.9	4562.5	4356.0	3744.3
25°	4023.3	4017.0	4037.5	4078.5	4204.6	4496.3	4868.4	5052.8	4904.6	4672.9	3950.8
27.5°	4280.3	4277.2	4275.6	4281.9	4324.4	4595.6	5067.0	5387.0	5238.8	4977.1	4135.3
30°	4559.4	4549.9	4570.4	4551.5	4542.0	4713.9	5235.7	5686.6	5571.5	5278.3	4288.2
32.5°	4939.3	4922.0	4917.2	4855.7	4817.9	4898.3	5371.3	6027.1	5935.7	5603.0	4460.0
35°	5440.6	5424.9	5344.5	5246.7	5134.8	5172.6	5540.0	6359.8	6366.1	6009.8	4685.5
37.5°	5946.7	5949.9	5886.8	5656.6	5541.5	5519.5	5796.9	6764.9	6900.5	6495.3	4977.1
40°	6367.6	6386.6	6386.6	6143.8	5971.9	5951.4	6158.0	7245.8	7515.4	7091.3	5346.0
42.5°	6687.7	6705.0	6760.2	6585.2	6403.9	6474.8	6596.2	7728.2	8212.2	7827.5	5812.7
45°	7039.3	7053.4	7083.4	6982.5	6876.9	7066.1	7092.9	8305.2	9009.9	8653.6	6355.0
47.5°	7505.9	7493.3	7496.4	7422.4	7340.4	7646.2	7639.9	8790.8	9780.9	9558.6	6943.1
50°	8086.1	8109.7	8087.7	7941.0	7844.9	8123.9	8160.2	9328.4	10458.8	10454.0	7535.9
52.5°	8644.2	8653.6	8770.3	8776.6	8579.5	8521.2	8615.8	9870.7	11031.1	11273.8	8105.0
55°	8672.5	8708.8	9058.8	9311.0	9629.5	9161.3	9076.1	10387.8	11584.4	12076.3	8696.2
57.5°	8068.7	8127.1	8721.4	9265.3	10151.3	10260.1	9864.4	11056.3	12137.8	12866.1	9380.4
60°	6779.1	6900.5	7707.7	8540.1	9916.4	11050.0	11477.2	11964.4	12864.6	13673.3	10211.2
62.5°	4329.2	4376.5	5508.4	6902.1	8858.6	10972.7	13233.5	13564.6	13971.3	14724.9	11491.4
65°	2167.7	2319.1	2982.8	4119.5	6388.1	9668.9	14121.1	16495.3	15997.2	16525.3	13566.1
67.5°	1470.9	1519.8	1855.6	2475.2	3745.9	6850.1	13570.9	18964.2	18817.6	18904.3	15778.0
70°	1084.7	1116.2	1381.0	1753.1	2265.5	3889.3	10804.0	18778.2	19779.3	19747.7	15546.3
72.5°	791.4	807.2	1007.4	1338.5	1679.0	2011.7	6597.8	15169.5	17266.3	18175.9	13596.1
75°	575.4	594.4	700.0	1001.1	1305.4	1254.9	3257.1	10957.0	13167.3	14917.2	11076.8
77.5°	428.8	452.5	501.3	627.5	914.4	898.6	1407.9	7114.9	8516.5	9743.0	6728.7
80°	309.0	313.7	342.1	402.0	580.2	526.6	670.0	3709.6	4253.5	4660.3	2637.6
82.5°	187.6	192.3	228.6	247.5	359.5	331.1	348.4	1201.3	1721.6	1827.2	985.3
85°	55.2	58.3	104.1	113.5	149.8	141.9	140.3	488.7	583.3	745.7	387.8
87.5°	0.0	0.0	0.0	0.0	1.6	9.5	17.3	86.7	130.9	181.3	94.6
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°	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5	2544.5
2.5°	2571.3	2535.1	2516.2	2483.1	2459.4	2435.8	2412.1	2390.0	2380.6	2366.4	2369.5
5°	2617.1	2560.3	2503.5	2438.9	2383.7	2338.0	2297.0	2260.8	2245.0	2230.8	2237.1
7.5°	2686.4	2601.3	2492.5	2374.3	2287.6	2224.5	2181.9	2156.7	2148.8	2137.8	2137.8
10°	2774.7	2647.0	2456.2	2287.6	2183.5	2133.1	2114.1	2112.6	2120.4	2122.0	2118.9
12.5°	2872.5	2691.2	2402.6	2185.1	2096.8	2081.0	2095.2	2122.0	2148.8	2163.0	2159.9
15°	2973.4	2719.5	2311.2	2087.3	2033.7	2054.2	2100.0	2153.6	2205.6	2232.4	2230.8
17.5°	3067.9	2725.8	2193.0	1992.7	1978.6	2030.6	2109.4	2193.0	2263.9	2301.7	2303.3
20°	3173.6	2714.8	2071.6	1907.6	1923.4	2008.5	2112.6	2213.5	2297.0	2334.9	2344.3
22.5°	3269.7	2677.0	1953.3	1827.2	1876.1	1981.7	2087.3	2181.9	2256.0	2292.3	2304.9
25°	3356.5	2604.4	1824.1	1759.4	1839.8	1943.9	2024.3	2090.5	2142.5	2164.6	2181.9
27.5°	3403.7	2495.7	1726.3	1705.8	1805.1	1890.3	1934.4	1954.9	1972.3	1965.9	1978.6
30°	3413.2	2360.1	1641.2	1663.2	1753.1	1816.2	1825.6	1805.1	1775.2	1726.3	1737.3
32.5°	3403.7	2204.0	1570.2	1617.5	1694.8	1732.6	1720.0	1666.4	1593.9	1518.2	1522.9
35°	3406.9	2046.3	1511.9	1567.1	1627.0	1647.5	1616.0	1541.9	1464.6	1395.2	1392.1
37.5°	3441.6	1913.9	1463.0	1518.2	1560.8	1563.9	1529.2	1452.0	1412.6	1360.6	1354.2
40°	3537.8	1816.2	1418.9	1469.3	1496.1	1494.6	1455.1	1400.0	1426.8	1409.4	1404.7
42.5°	3695.4	1756.3	1382.6	1417.3	1436.2	1439.4	1407.9	1373.2	1431.5	1409.4	1401.5
45°	3949.2	1753.1	1357.4	1365.3	1395.2	1417.3	1395.2	1355.8	1377.9	1270.7	1250.2
47.5°	4250.4	1806.7	1338.5	1319.6	1371.6	1411.0	1376.3	1313.3	1267.5	1169.8	1155.6
50°	4613.0	1915.5	1321.1	1270.7	1336.9	1387.4	1352.7	1266.0	1196.6	1144.6	1136.7
52.5°	5043.4	2059.0	1299.1	1215.5	1284.9	1374.7	1352.7	1261.2	1169.8	1122.5	1114.6
55°	5494.2	2224.5	1273.8	1149.3	1226.5	1377.9	1363.7	1228.1	1149.3	1124.1	1117.8
57.5°	6053.9	2423.1	1228.1	1072.0	1174.5	1349.5	1319.6	1209.2	1135.1	1114.6	1108.3
60°	6780.7	2718.0	1141.4	993.2	1114.6	1299.1	1280.2	1177.7	1097.3	1079.9	1075.2
62.5°	7931.6	3217.7	1035.8	917.5	1043.7	1193.4	1221.8	1117.8	1050.0	1048.4	1046.8
65°	9807.7	3818.4	911.2	849.8	969.6	1106.7	1144.6	1056.3	1001.1	1018.4	1016.9
67.5°	11122.5	3870.4	808.8	778.8	882.9	1012.1	1067.3	993.2	933.3	966.4	964.8
70°	10187.6	3019.1	720.5	704.7	789.8	909.7	983.8	914.4	854.5	886.0	879.7
72.5°	8592.1	2314.4	636.9	627.5	695.3	802.5	876.6	835.6	772.5	772.5	758.3
75°	6905.2	1909.2	548.6	543.9	589.6	693.7	777.2	707.9	649.5	646.4	636.9
77.5°	3960.3	1251.8	460.3	457.2	471.4	580.2	603.8	589.6	545.5	525.0	518.7
80°	1578.1	651.1	362.6	342.1	356.3	425.7	476.1	452.5	414.6	389.4	375.2
82.5°	611.7	326.3	255.4	223.9	244.4	307.4	345.3	337.4	312.2	255.4	239.6
85°	249.1	159.2	152.9	129.3	141.9	165.5	198.6	171.8	141.9	100.9	96.2
87.5°	66.2	58.3	56.8	34.7	26.8	7.9	1.6	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)