

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: P642235

Luminaire Tested: GWS-SA6C-740-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642235  
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-SA6C-740-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

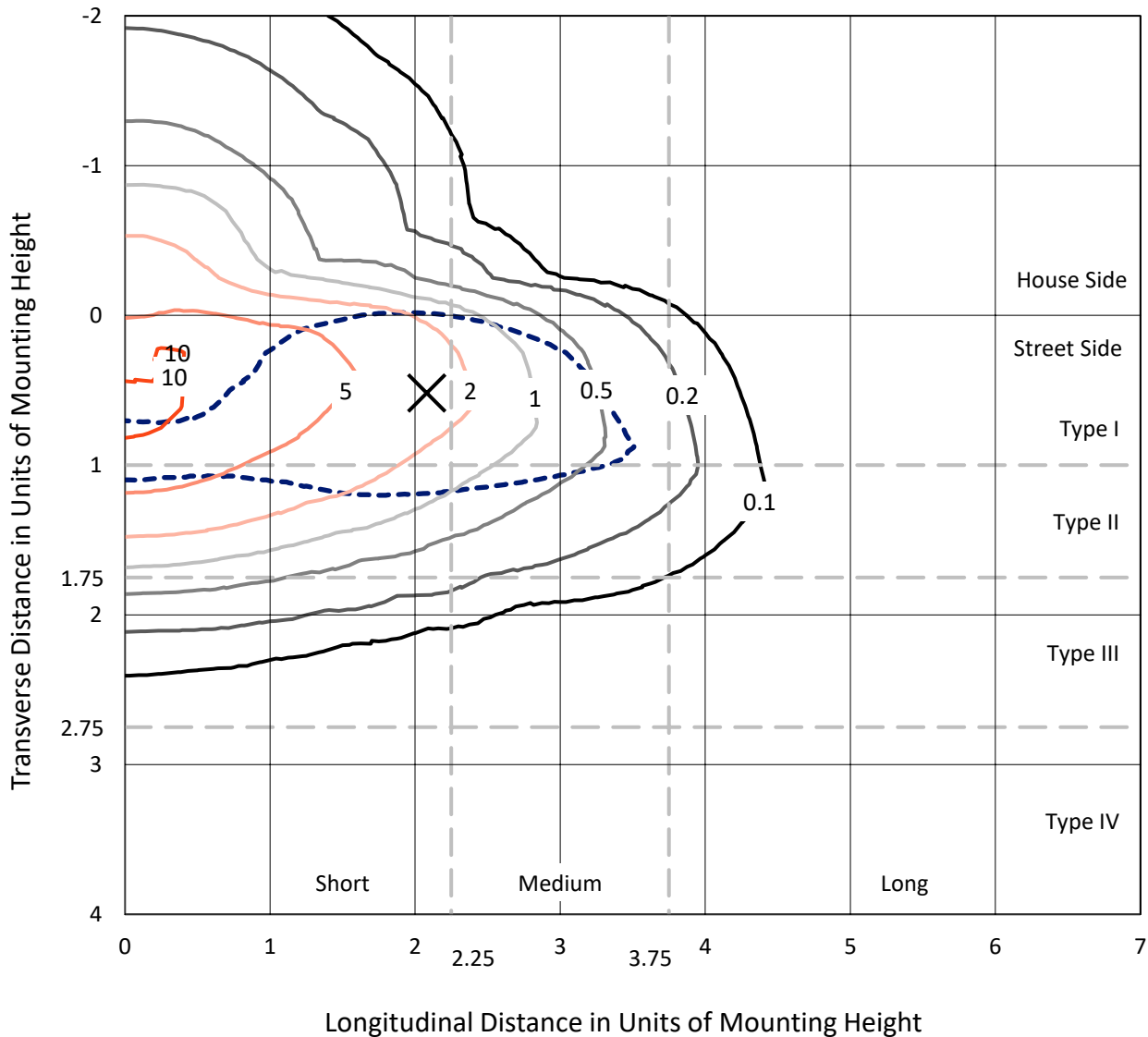
Lumens per Lamp: N/A  
Luminaire Lumens: 28953.5 lumens  
Efficiency: N/A  
Efficacy: 153.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

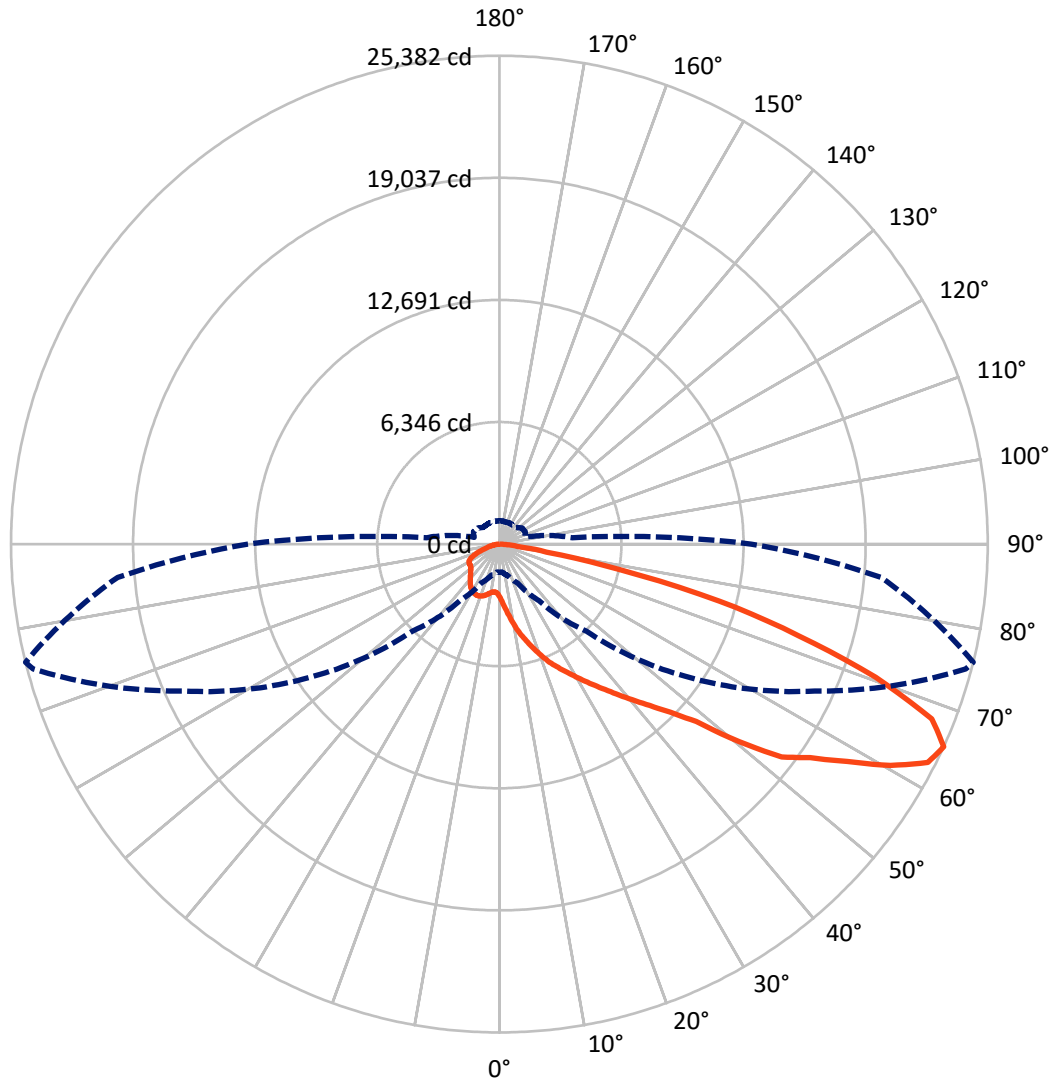
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	4839.6	0.0	4839.6
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	24113.9	0.0	24113.9
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	28953.5	0.0	28953.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.7	1.1
10°-20°	1240.7	4.3
20°-30°	2418.0	8.4
30°-40°	4043.9	14.0
40°-50°	5790.1	20.0
50°-60°	6854.7	23.7
60°-70°	5699.7	19.7
70°-80°	2332.5	8.1
80°-90°	248.3	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°	28953.5	100.0
0°-180°	28953.5	100.0

**Coefficient of Utilization**



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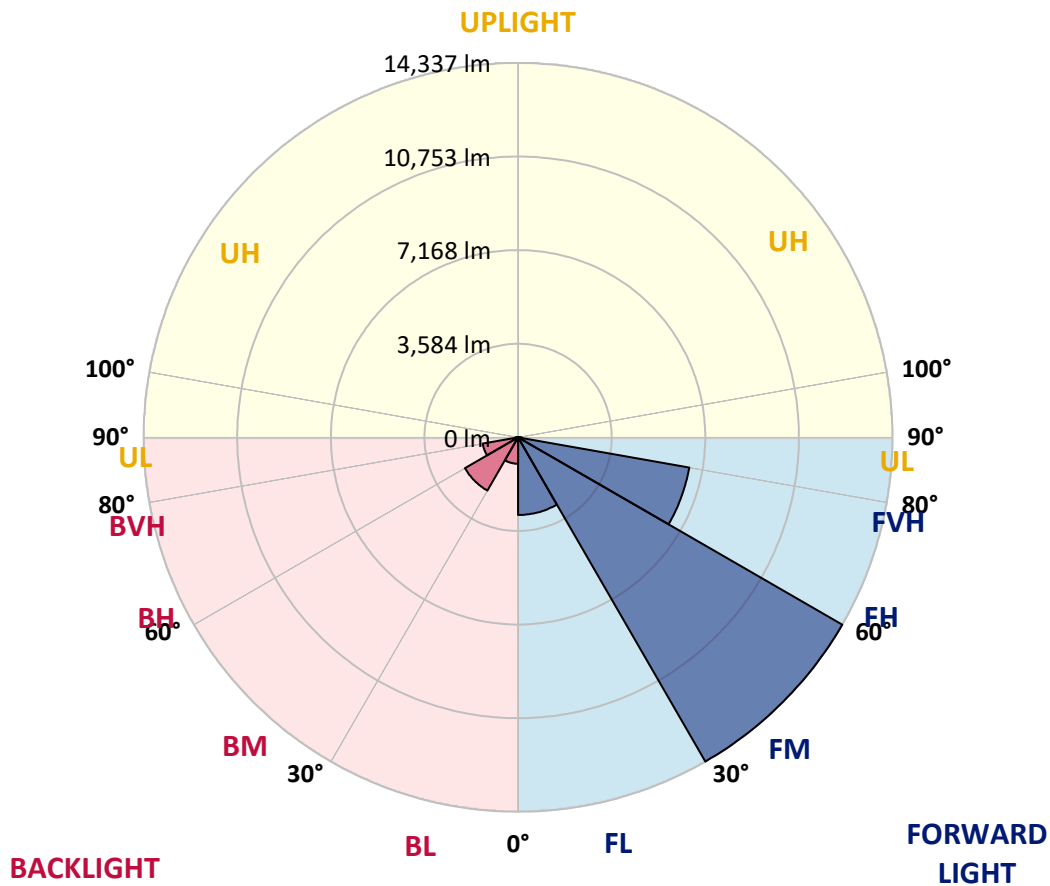
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2972.0	10.3			
FM (30°-60°)	14336.7	49.5			
FH (60°-80°)	6657.2	23.0			G3/7500
FVH (80°-90°)	148.1	0.5			G2/225
BL (0°-30°)	1012.4	3.5	B3/2500		
BM (30°-60°)	2351.9	8.1	B2/2500		
BH (60°-80°)	1375.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	100.2	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°	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8
2.5°	3843.0	3857.2	3810.4	3794.1	3684.2	3535.6	3411.5	3224.2	3051.2	3024.7	2870.0
5°	4881.1	4820.0	4767.1	4732.5	4579.8	4410.9	4148.3	3796.2	3427.7	3383.0	3049.1
7.5°	5497.8	5487.6	5422.5	5402.2	5284.1	5115.2	4844.4	4406.8	3871.5	3798.2	3291.4
10°	5992.4	5986.3	5953.8	5972.1	5864.2	5699.3	5436.8	4984.9	4358.0	4284.7	3562.1
12.5°	6424.0	6434.1	6428.0	6495.2	6440.3	6312.0	6039.3	5542.6	4844.4	4765.1	3891.8
15°	6739.5	6747.6	6778.1	6924.7	6955.2	6928.8	6651.9	6090.2	5324.8	5210.8	4231.8
17.5°	6829.0	6845.3	6918.6	7154.7	7319.6	7429.5	7223.9	6647.9	5797.0	5672.9	4577.8
20°	6949.1	6967.4	7040.7	7287.0	7529.2	7779.6	7743.0	7213.7	6273.3	6171.6	4927.9
22.5°	7504.8	7490.6	7458.0	7576.1	7749.1	8060.5	8152.1	7757.2	6765.9	6668.2	5314.6
25°	8575.5	8549.0	8341.4	8233.5	8176.5	8365.8	8528.7	8251.8	7246.3	7099.7	5674.9
27.5°	9756.0	9741.8	9477.2	9220.7	8870.6	8789.2	8884.9	8683.4	7712.4	7563.8	5988.4
30°	10873.5	10830.8	10554.0	10232.3	9764.2	9414.1	9273.6	9106.7	8223.3	8068.6	6354.8
32.5°	11872.9	11818.0	11492.3	11136.1	10645.6	10232.3	9813.0	9556.6	8801.4	8622.3	6729.3
35°	12693.2	12638.3	12304.5	11925.9	11386.5	11081.1	10507.1	10045.1	9389.7	9208.5	7171.0
37.5°	13328.3	13277.4	12929.4	12556.9	12086.7	11844.4	11345.8	10594.7	10067.5	9878.2	7639.2
40°	13684.5	13647.9	13369.0	13073.9	12679.0	12469.3	12245.4	11288.8	10826.7	10637.4	8190.8
42.5°	13792.4	13768.0	13572.6	13419.9	13153.3	12994.5	13122.7	12105.0	11636.8	11472.0	8811.6
45°	13521.7	13521.7	13464.7	13542.0	13554.3	13552.2	14002.1	13027.1	12632.2	12451.0	9686.8
47.5°	12829.6	12874.4	12957.9	13338.5	13739.5	14075.3	15030.0	14256.5	13912.5	13763.9	10926.4
50°	11563.6	11685.7	11970.6	12713.6	13566.5	14421.4	16002.9	16074.2	16401.9	16139.3	12750.2
52.5°	9709.2	9690.9	10417.6	11476.0	12776.7	14435.6	16538.3	17678.1	18559.5	18378.3	14105.9
55°	7716.5	7686.0	8363.8	9823.2	11565.6	13890.1	16859.9	18412.9	19756.4	19593.5	15325.1
57.5°	5909.0	5870.3	6472.8	7789.8	9855.8	12731.9	16798.8	19288.2	21403.1	21319.6	16982.0
60°	4066.9	4020.1	4583.9	5736.0	7832.5	10961.1	16123.0	19738.0	23330.7	23359.2	18754.9
62.5°	2442.6	2416.1	2825.2	3718.8	5634.2	8766.8	14541.5	19465.3	24865.4	24993.6	19894.8
65°	1473.7	1455.4	1695.6	2218.7	3574.3	6397.5	12103.0	18071.0	25087.3	25382.4	19921.2
67.5°	1072.7	1074.7	1143.9	1351.6	2084.3	4132.0	9082.3	15571.4	23931.1	24236.4	18665.3
70°	932.2	936.3	973.0	1019.8	1260.0	2365.2	5904.9	12292.3	20513.6	20749.7	15654.9
72.5°	828.4	828.4	852.9	877.3	985.2	1441.1	3163.1	8591.8	16190.2	16253.3	11948.3
75°	728.7	722.6	734.8	747.0	854.9	1007.6	1538.8	5986.3	11958.4	11811.9	7722.6
77.5°	580.1	574.0	576.0	588.3	686.0	720.6	779.6	3739.2	6739.5	6360.9	3411.5
80°	413.2	409.1	431.5	462.1	506.8	441.7	488.5	1809.5	2672.6	2487.4	1323.1
82.5°	246.3	254.4	289.0	313.5	350.1	276.8	315.5	604.5	946.5	922.1	537.4
85°	34.6	36.6	103.8	120.1	150.6	107.9	166.9	272.8	378.6	405.1	189.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.2	48.9	107.9	109.9	46.8
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°	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8	2741.8
2.5°	2790.6	2695.0	2558.6	2444.6	2348.9	2271.6	2206.5	2157.6	2143.4	2123.0	2123.0
5°	2892.4	2719.4	2475.1	2302.1	2202.4	2143.4	2102.6	2082.3	2072.1	2059.9	2053.8
7.5°	3032.9	2790.6	2460.9	2285.8	2208.5	2171.9	2145.4	2133.2	2125.0	2112.8	2112.8
10°	3226.2	2896.5	2505.7	2342.8	2281.8	2245.1	2214.6	2194.2	2175.9	2157.6	2153.5
12.5°	3435.9	3034.9	2587.1	2420.2	2355.0	2310.3	2267.5	2237.0	2214.6	2192.2	2186.1
15°	3667.9	3177.4	2674.6	2495.5	2414.1	2353.0	2302.1	2255.3	2224.8	2192.2	2188.1
17.5°	3895.9	3321.9	2747.9	2546.4	2442.6	2367.3	2294.0	2232.9	2194.2	2157.6	2147.4
20°	4168.7	3466.4	2798.8	2560.6	2436.5	2336.7	2249.2	2171.9	2129.1	2086.4	2080.3
22.5°	4419.0	3600.8	2823.2	2540.3	2389.7	2271.6	2169.8	2086.4	2039.5	1996.8	1988.7
25°	4661.2	3718.8	2813.0	2491.4	2318.4	2182.0	2076.2	1992.7	1948.0	1903.2	1891.0
27.5°	4895.3	3798.2	2772.3	2416.1	2228.8	2082.3	1980.5	1905.2	1866.5	1827.9	1811.6
30°	5125.3	3871.5	2709.2	2318.4	2114.9	1978.5	1895.0	1842.1	1803.4	1762.7	1750.5
32.5°	5357.4	3924.4	2613.6	2204.4	1998.8	1886.9	1836.0	1797.3	1756.6	1715.9	1703.7
35°	5591.5	3946.8	2497.5	2074.2	1901.1	1827.9	1809.5	1764.8	1709.8	1661.0	1644.7
37.5°	5870.3	3967.1	2353.0	1945.9	1815.6	1799.4	1795.3	1728.1	1663.0	1595.8	1577.5
40°	6206.2	3993.6	2204.4	1829.9	1746.4	1789.2	1772.9	1681.3	1551.0	1485.9	1465.5
42.5°	6617.3	4042.5	2049.7	1724.1	1695.6	1750.5	1732.2	1567.3	1479.8	1443.2	1433.0
45°	7221.9	4221.6	1895.0	1640.6	1656.9	1695.6	1667.1	1500.1	1465.5	1441.1	1428.9
47.5°	8298.6	4496.4	1760.7	1577.5	1626.3	1646.7	1536.8	1481.8	1455.4	1422.8	1408.6
50°	9418.2	4616.5	1652.8	1538.8	1591.7	1601.9	1465.5	1457.4	1439.1	1404.5	1390.2
52.5°	10175.4	4600.2	1587.7	1524.6	1563.2	1524.6	1433.0	1430.9	1418.7	1378.0	1361.7
55°	11030.3	4628.7	1559.2	1528.6	1551.0	1394.3	1392.3	1398.4	1392.3	1347.5	1339.3
57.5°	12184.4	4716.2	1544.9	1542.9	1542.9	1331.2	1353.6	1361.7	1349.5	1329.2	1323.1
60°	13293.7	4722.3	1518.5	1559.2	1536.8	1292.5	1308.8	1317.0	1302.7	1298.6	1296.6
62.5°	13711.0	4429.2	1459.4	1547.0	1512.4	1249.8	1262.0	1266.1	1251.8	1262.0	1260.0
65°	13090.2	3806.3	1361.7	1487.9	1437.0	1211.1	1203.0	1213.1	1188.7	1215.2	1217.2
67.5°	11622.6	3024.7	1213.1	1376.0	1331.2	1168.4	1152.1	1152.1	1111.4	1152.1	1150.0
70°	9371.3	2137.3	995.3	1196.9	1215.2	1117.5	1109.3	1062.5	997.4	1058.4	1052.3
72.5°	7103.8	1534.8	783.7	946.5	1046.2	1046.2	1048.3	968.9	893.6	922.1	897.6
75°	4500.4	1080.8	626.9	724.6	820.3	918.0	964.8	818.3	751.1	738.9	726.7
77.5°	2027.3	710.4	488.5	555.7	582.1	724.6	881.4	704.3	612.7	586.2	578.1
80°	848.8	441.7	348.1	392.8	358.2	608.6	777.6	547.5	449.8	413.2	386.7
82.5°	372.5	262.6	221.9	211.7	223.9	451.9	580.1	364.4	280.9	380.6	384.7
85°	156.7	138.4	114.0	103.8	91.6	173.0	272.8	142.5	175.1	99.7	81.4
87.5°	36.6	40.7	30.5	20.4	12.2	2.0	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)