

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: P637670

Luminaire Tested: GWS-SA4D-730-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637670  
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-SA4D-730-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

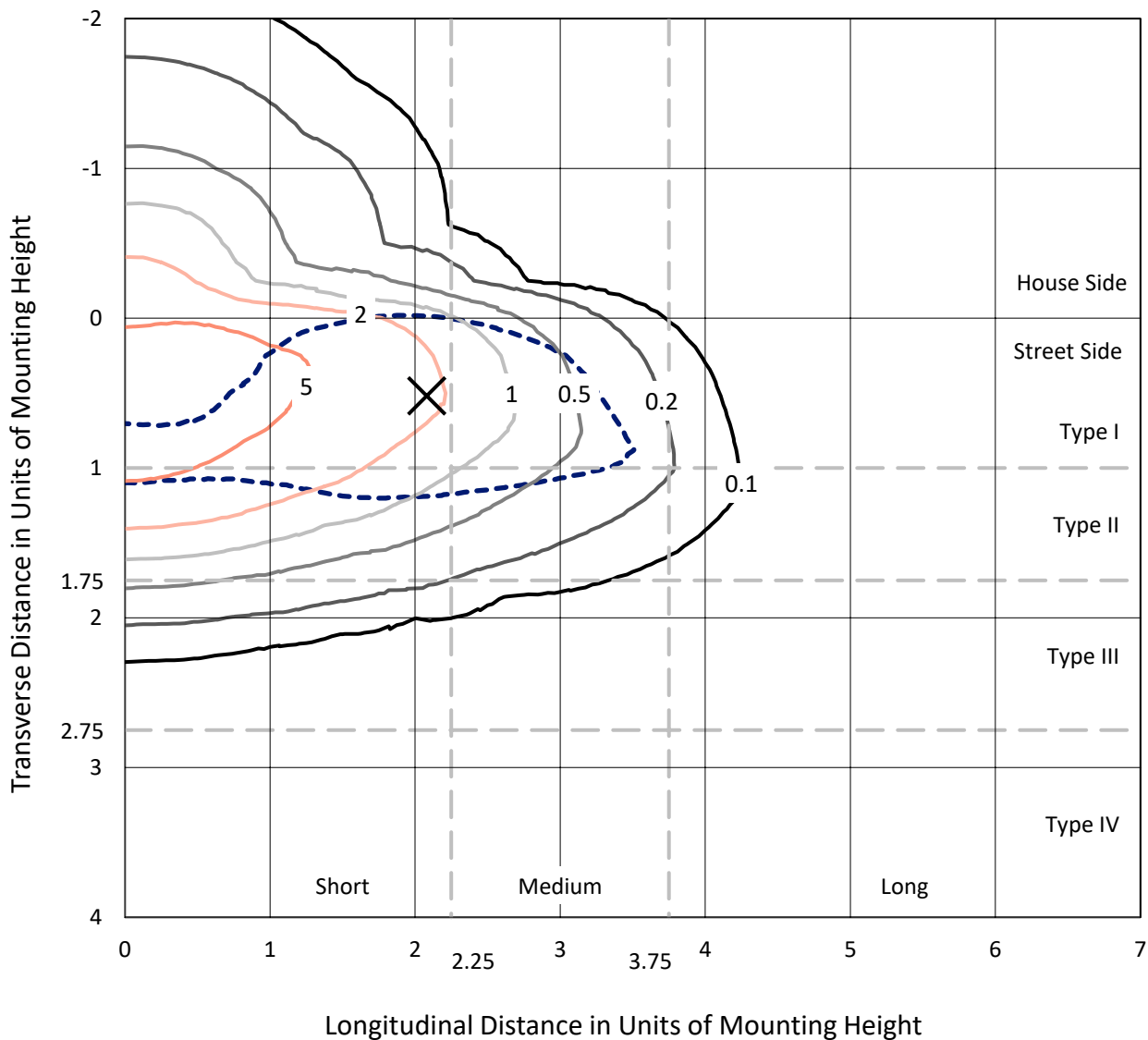
Lumens per Lamp: N/A  
Luminaire Lumens: 22738.9 lumens  
Efficiency: N/A  
Efficacy: 140.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

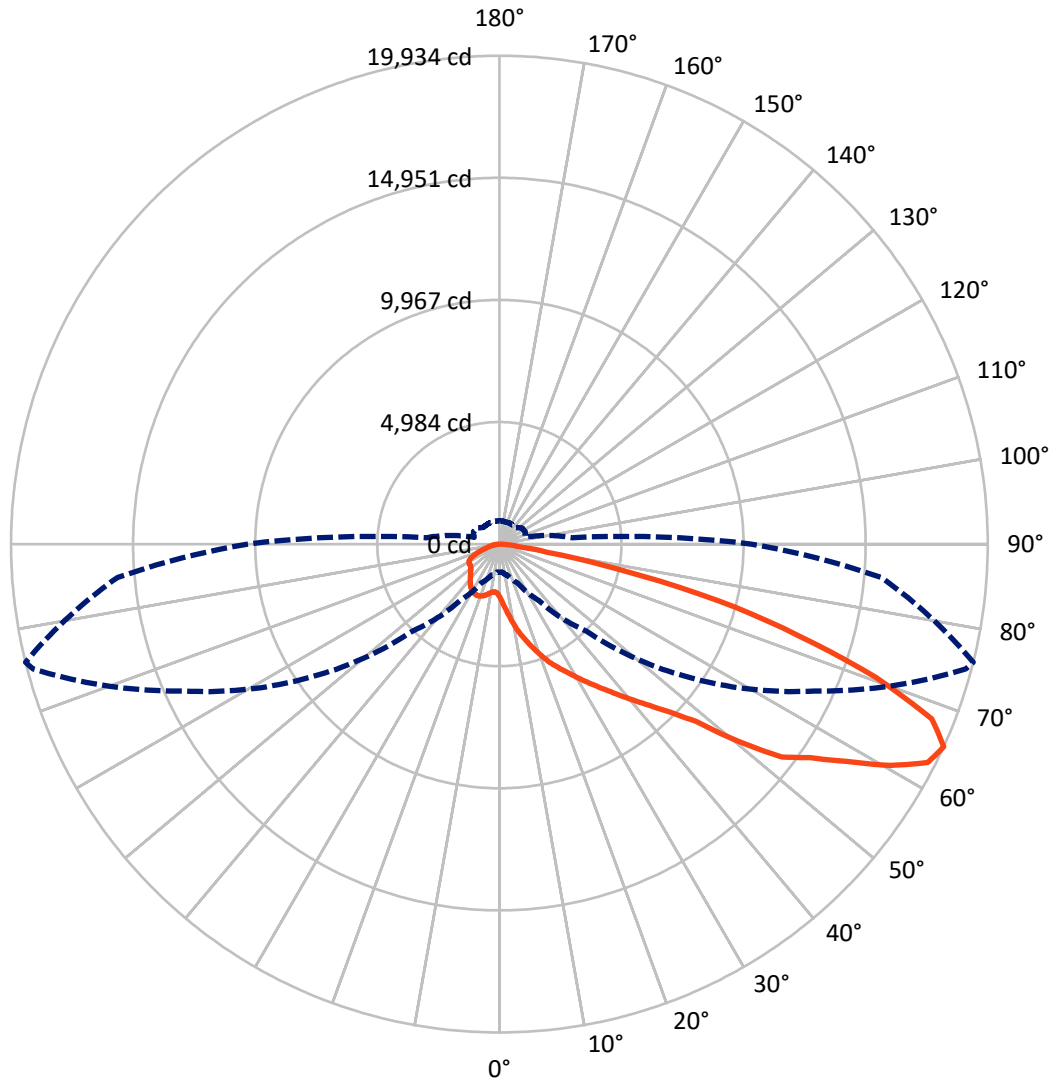
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	3800.8	0.0	3800.8
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	18938.1	0.0	18938.1
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	22738.9	0.0	22738.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	255.8	1.1
10°-20°	974.4	4.3
20°-30°	1899.0	8.4
30°-40°	3175.9	14.0
40°-50°	4547.3	20.0
50°-60°	5383.4	23.7
60°-70°	4476.3	19.7
70°-80°	1831.8	8.1
80°-90°	195.0	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°	22738.9	100.0
0°-180°	22738.9	100.0

**Coefficient of Utilization**



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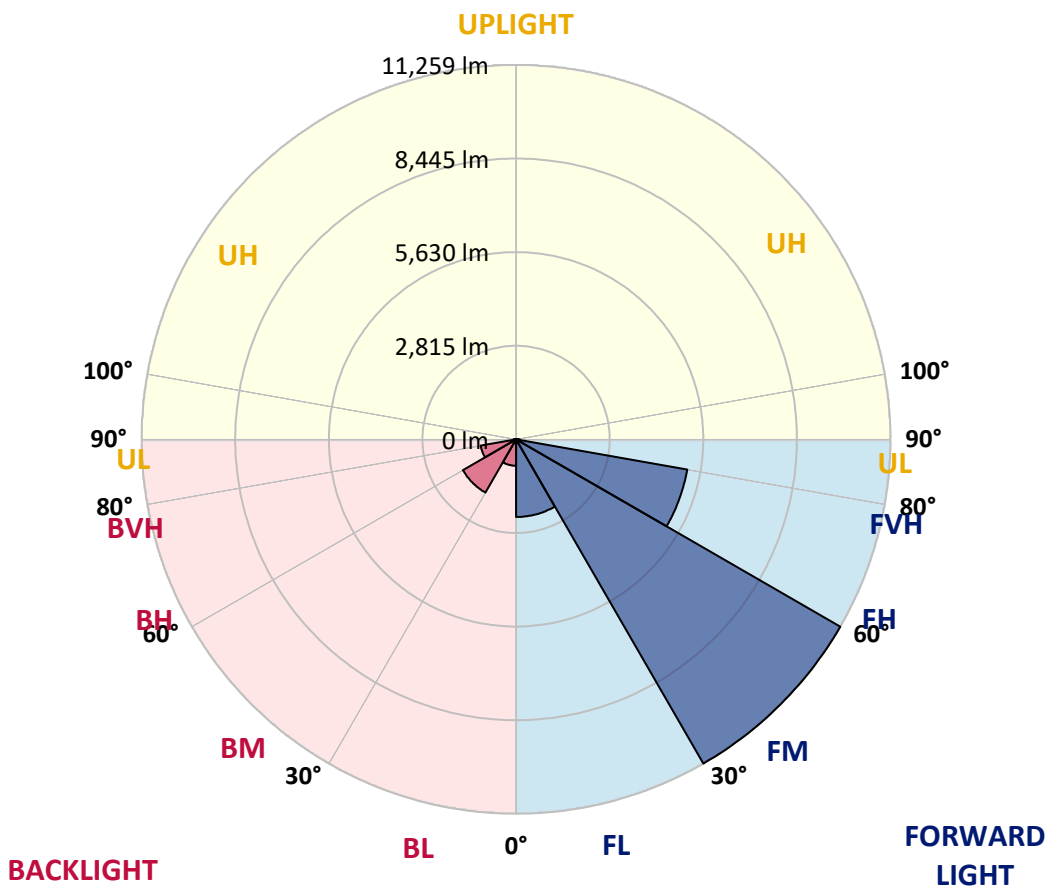
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2334.1	10.3			
FM (30°-60°)	11259.4	49.5			
FH (60°-80°)	5228.3	23.0			G3/7500
FVH (80°-90°)	116.3	0.5			G2/225
BL (0°-30°)	795.1	3.5	B2/1000		
BM (30°-60°)	1847.1	8.1	B2/2500		
BH (60°-80°)	1079.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	78.7	0.3			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3
2.5°	3018.1	3029.3	2992.5	2979.8	2893.4	2776.7	2679.2	2532.2	2396.3	2375.5	2254.0
5°	3833.4	3785.4	3743.9	3716.7	3596.8	3464.1	3257.9	2981.4	2692.0	2656.8	2394.7
7.5°	4317.8	4309.8	4258.6	4242.6	4149.9	4017.2	3804.6	3460.9	3040.5	2983.0	2584.9
10°	4706.2	4701.4	4675.9	4690.2	4605.5	4476.0	4269.8	3914.9	3422.6	3365.0	2797.5
12.5°	5045.1	5053.1	5048.3	5101.1	5057.9	4957.2	4743.0	4352.9	3804.6	3742.3	3056.5
15°	5292.9	5299.3	5323.3	5438.4	5462.4	5441.6	5224.2	4783.0	4181.9	4092.4	3323.5
17.5°	5363.2	5376.0	5433.6	5619.0	5748.5	5834.8	5673.4	5221.0	4552.8	4455.2	3595.2
20°	5457.6	5471.9	5529.5	5722.9	5913.2	6109.8	6081.0	5665.4	4926.8	4846.9	3870.2
22.5°	5894.0	5882.8	5857.2	5949.9	6085.8	6330.4	6402.3	6092.2	5313.7	5237.0	4173.9
25°	6734.8	6714.0	6551.0	6466.3	6421.5	6570.2	6698.1	6480.7	5691.0	5575.9	4456.8
27.5°	7662.0	7650.8	7443.0	7241.6	6966.6	6902.7	6977.8	6819.6	6057.0	5940.3	4703.0
30°	8539.6	8506.1	8288.6	8036.1	7668.4	7393.4	7283.1	7152.1	6458.3	6336.8	4990.8
32.5°	9324.5	9281.4	9025.6	8745.8	8360.6	8036.1	7706.8	7505.3	6912.3	6771.6	5284.9
35°	9968.8	9925.6	9663.4	9366.1	8942.5	8702.7	8251.9	7889.0	7374.3	7232.0	5631.8
37.5°	10467.5	10427.5	10154.2	9861.7	9492.4	9302.1	8910.5	8320.6	7906.6	7757.9	5999.5
40°	10747.3	10718.5	10499.5	10267.7	9957.6	9792.9	9617.1	8865.7	8502.9	8354.2	6432.7
42.5°	10832.0	10812.8	10659.3	10539.5	10330.0	10205.3	10306.1	9506.8	9139.1	9009.6	6920.3
45°	10619.4	10619.4	10574.6	10635.4	10645.0	10643.4	10996.6	10230.9	9920.8	9778.5	7607.7
47.5°	10075.9	10111.0	10176.6	10475.5	10790.4	11054.2	11803.9	11196.5	10926.3	10809.6	8581.2
50°	9081.5	9177.5	9401.3	9984.7	10654.5	11326.0	12568.1	12624.0	12881.4	12675.2	10013.5
52.5°	7625.2	7610.8	8181.5	9012.8	10034.3	11337.1	12988.5	13883.7	14575.9	14433.6	11078.2
55°	6060.2	6036.2	6568.6	7714.8	9083.1	10908.7	13241.1	14460.8	15515.8	15387.9	12035.7
57.5°	4640.7	4610.3	5083.5	6117.8	7740.3	9999.1	13193.1	15148.2	16809.1	16743.5	13337.0
60°	3194.0	3157.2	3600.0	4504.8	6151.3	8608.4	12662.4	15501.4	18322.9	18345.3	14729.3
62.5°	1918.3	1897.5	2218.8	2920.6	4424.9	6885.1	11420.3	15287.2	19528.3	19629.0	15624.5
65°	1157.4	1143.0	1331.6	1742.5	2807.1	5024.3	9505.2	14192.2	19702.5	19934.3	15645.3
67.5°	842.5	844.1	898.4	1061.5	1636.9	3245.1	7132.9	12229.2	18794.5	19034.3	14659.0
70°	732.2	735.3	764.1	800.9	989.5	1857.6	4637.5	9653.8	16110.5	16295.9	12294.7
72.5°	650.6	650.6	669.8	689.0	773.7	1131.8	2484.2	6747.6	12715.1	12764.7	9383.7
75°	572.3	567.5	577.1	586.7	671.4	791.3	1208.5	4701.4	9391.7	9276.6	6065.0
77.5°	455.6	450.8	452.4	462.0	538.7	565.9	612.3	2936.6	5292.9	4995.6	2679.2
80°	324.5	321.3	338.9	362.9	398.0	346.9	383.7	1421.1	2098.9	1953.5	1039.1
82.5°	193.4	199.8	227.0	246.2	275.0	217.4	247.8	474.8	743.3	724.2	422.0
85°	27.2	28.8	81.5	94.3	118.3	84.7	131.1	214.2	297.3	318.1	148.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.2	38.4	84.7	86.3	36.8
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°	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3	2153.3
2.5°	2191.7	2116.5	2009.4	1919.9	1844.8	1784.0	1732.9	1694.5	1683.3	1667.3	1667.3
5°	2271.6	2135.7	1943.9	1808.0	1729.7	1683.3	1651.3	1635.3	1627.4	1617.8	1613.0
7.5°	2381.9	2191.7	1932.7	1795.2	1734.5	1705.7	1684.9	1675.3	1668.9	1659.3	1659.3
10°	2533.8	2274.8	1967.9	1840.0	1792.0	1763.2	1739.3	1723.3	1708.9	1694.5	1691.3
12.5°	2698.4	2383.5	2031.8	1900.7	1849.6	1814.4	1780.8	1756.8	1739.3	1721.7	1716.9
15°	2880.6	2495.4	2100.5	1959.9	1895.9	1848.0	1808.0	1771.2	1747.2	1721.7	1718.5
17.5°	3059.7	2608.9	2158.1	1999.8	1918.3	1859.2	1801.6	1753.6	1723.3	1694.5	1686.5
20°	3273.9	2722.4	2198.1	2011.0	1913.5	1835.2	1766.4	1705.7	1672.1	1638.5	1633.8
22.5°	3470.5	2827.9	2217.2	1995.0	1876.7	1784.0	1704.1	1638.5	1601.8	1568.2	1561.8
25°	3660.8	2920.6	2209.2	1956.7	1820.8	1713.7	1630.6	1565.0	1529.8	1494.7	1485.1
27.5°	3844.6	2983.0	2177.3	1897.5	1750.4	1635.3	1555.4	1496.3	1465.9	1435.5	1422.7
30°	4025.2	3040.5	2127.7	1820.8	1660.9	1553.8	1488.3	1446.7	1416.3	1384.4	1374.8
32.5°	4207.5	3082.1	2052.6	1731.3	1569.8	1481.9	1441.9	1411.5	1379.6	1347.6	1338.0
35°	4391.3	3099.7	1961.5	1629.0	1493.1	1435.5	1421.1	1386.0	1342.8	1304.4	1291.7
37.5°	4610.3	3115.6	1848.0	1528.2	1425.9	1413.1	1409.9	1357.2	1306.0	1253.3	1238.9
40°	4874.1	3136.4	1731.3	1437.1	1371.6	1405.2	1392.4	1320.4	1218.1	1167.0	1151.0
42.5°	5197.0	3174.8	1609.8	1354.0	1331.6	1374.8	1360.4	1230.9	1162.2	1133.4	1125.4
45°	5671.8	3315.5	1488.3	1288.5	1301.2	1331.6	1309.2	1178.2	1151.0	1131.8	1122.2
47.5°	6517.4	3531.3	1382.8	1238.9	1277.3	1293.3	1206.9	1163.8	1143.0	1117.4	1106.2
50°	7396.6	3625.6	1298.0	1208.5	1250.1	1258.1	1151.0	1144.6	1130.2	1103.0	1091.8
52.5°	7991.3	3612.8	1246.9	1197.3	1227.7	1197.3	1125.4	1123.8	1114.2	1082.2	1069.5
55°	8662.7	3635.2	1224.5	1200.5	1218.1	1095.0	1093.4	1098.2	1093.4	1058.3	1051.9
57.5°	9569.1	3703.9	1213.3	1211.7	1211.7	1045.5	1063.1	1069.5	1059.9	1043.9	1039.1
60°	10440.3	3708.7	1192.5	1224.5	1206.9	1015.1	1027.9	1034.3	1023.1	1019.9	1018.3
62.5°	10768.0	3478.5	1146.2	1214.9	1187.7	981.5	991.1	994.3	983.1	991.1	989.5
65°	10280.5	2989.3	1069.5	1168.6	1128.6	951.2	944.8	952.8	933.6	954.4	956.0
67.5°	9127.9	2375.5	952.8	1080.6	1045.5	917.6	904.8	904.8	872.8	904.8	903.2
70°	7359.9	1678.5	781.7	940.0	954.4	877.6	871.2	834.5	783.3	831.3	826.5
72.5°	5579.1	1205.3	615.5	743.3	821.7	821.7	823.3	760.9	701.8	724.2	705.0
75°	3534.5	848.8	492.4	569.1	644.2	721.0	757.7	642.6	589.9	580.3	570.7
77.5°	1592.2	557.9	383.7	436.4	457.2	569.1	692.2	553.1	481.2	460.4	454.0
80°	666.6	346.9	273.4	308.5	281.4	478.0	610.7	430.0	353.3	324.5	303.7
82.5°	292.5	206.2	174.2	166.3	175.8	354.9	455.6	286.1	220.6	298.9	302.1
85°	123.1	108.7	89.5	81.5	71.9	135.9	214.2	111.9	137.5	78.3	63.9
87.5°	28.8	32.0	24.0	16.0	9.6	1.6	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)