

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: P631868

Luminaire Tested: GWS-SA2B-750-U-RW-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-750-U-RW-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

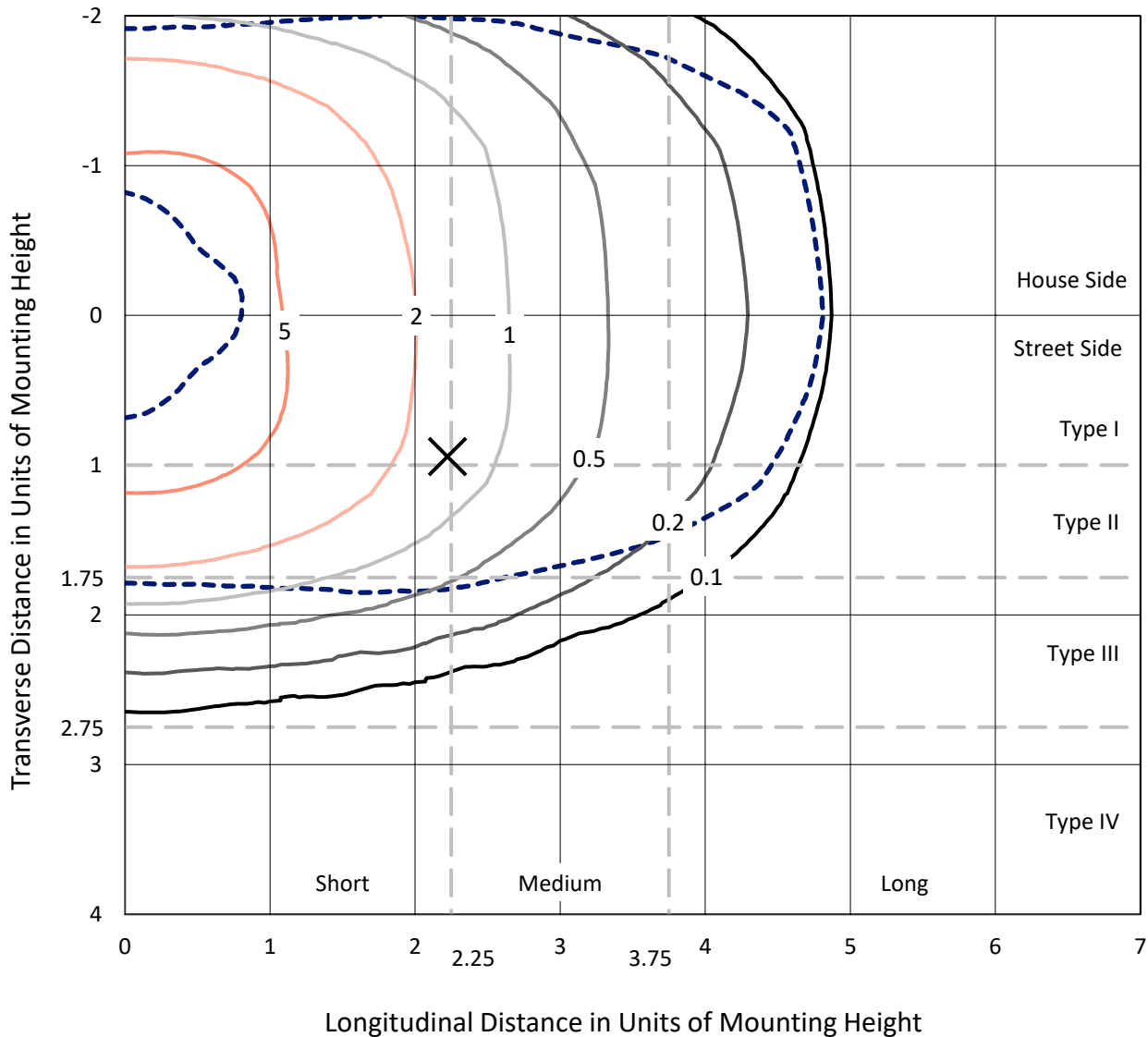
Lumens per Lamp: N/A  
Luminaire Lumens: 7267.1 lumens  
Efficiency: N/A  
Efficacy: 156.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

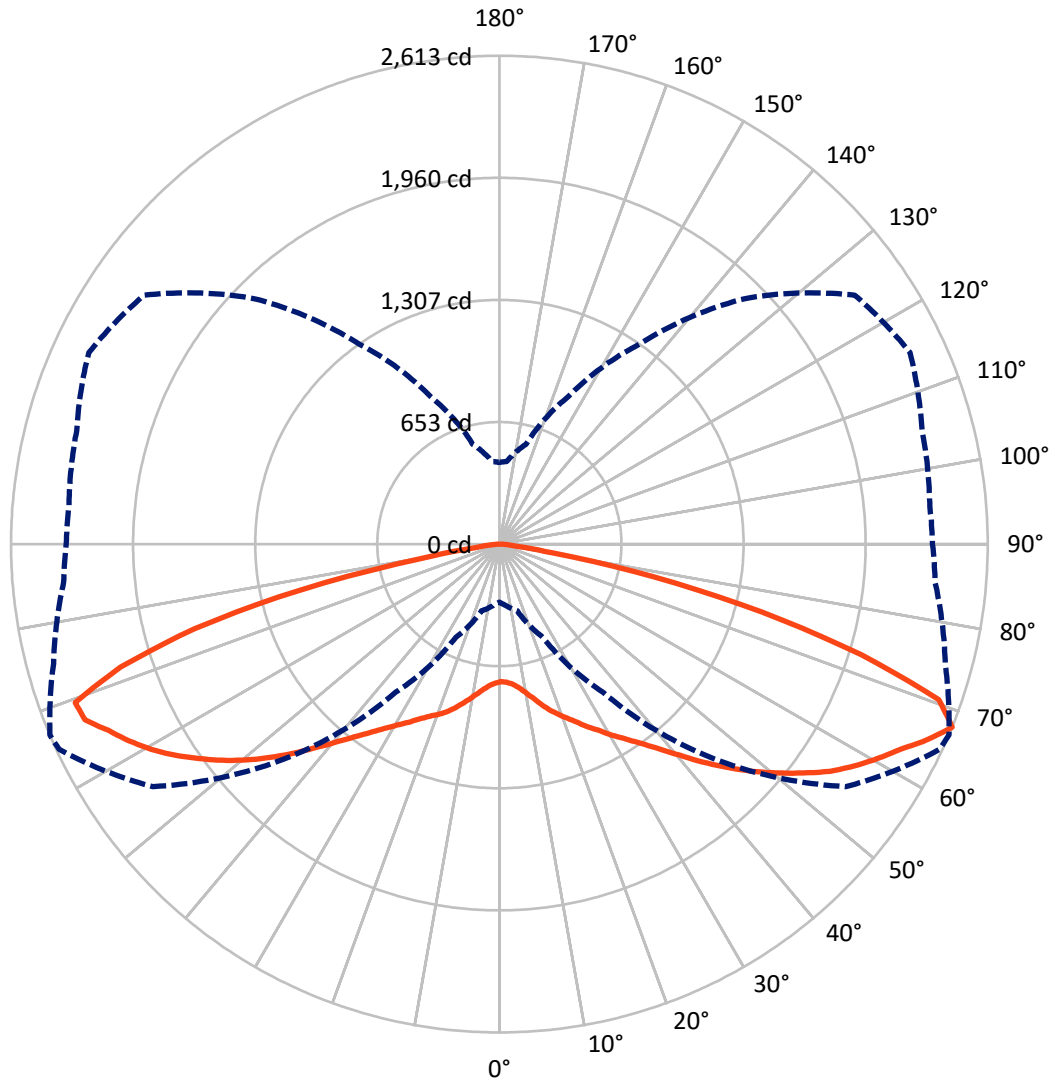
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3593.4	0.0	3593.4
	% Fixture	49.4	0.0	49.4
<b>Street Side</b>	Lumens	3673.6	0.0	3673.6
	% Fixture	50.6	0.0	50.6
<b>Total</b>	Lumens	7267.1	0.0	7267.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.2	1.0
10°-20°	243.9	3.4
20°-30°	478.5	6.6
30°-40°	815.3	11.2
40°-50°	1309.1	18.0
50°-60°	1778.9	24.5
60°-70°	1701.6	23.4
70°-80°	809.0	11.1
80°-90°	58.6	0.8
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°	7267.1	100.0
0°-180°	7267.1	100.0

**Coefficient of Utilization**



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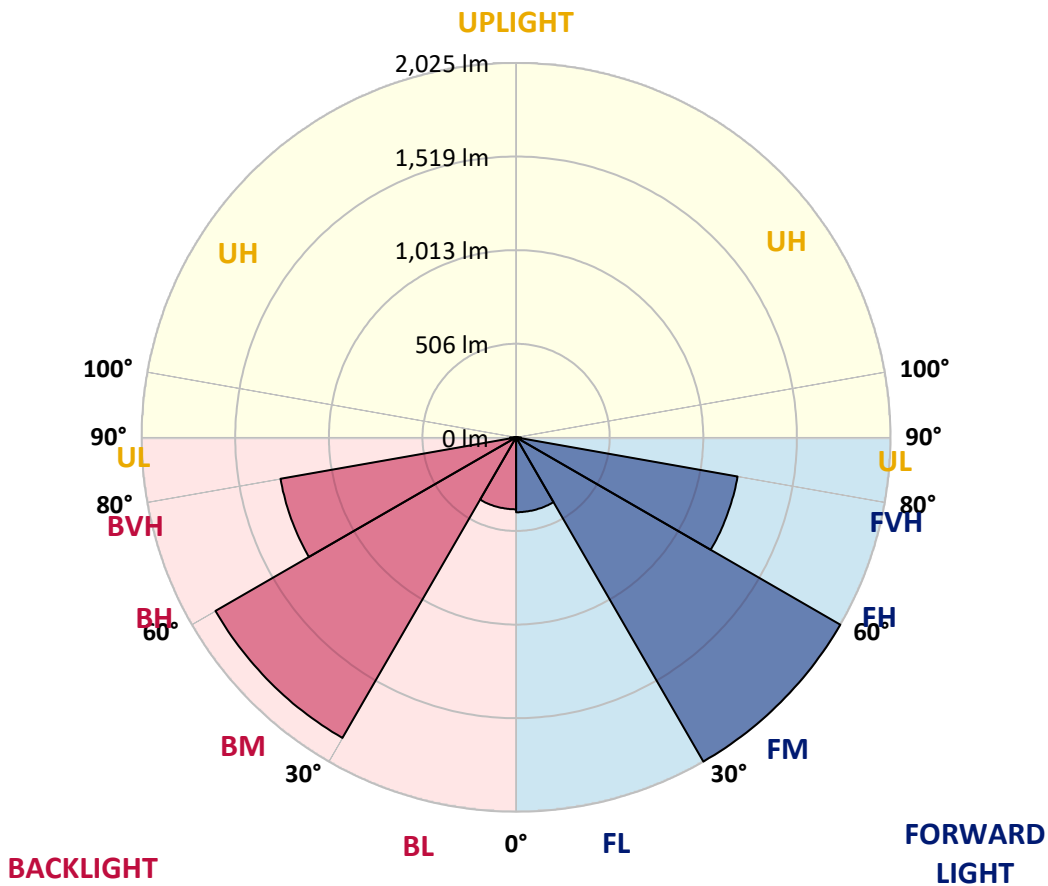
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.2	5.6			
FM (30°-60°)	2025.4	27.9			
FH (60°-80°)	1216.7	16.7			G1/1800
FVH (80°-90°)	26.3	0.4			G1/100
BL (0°-30°)	389.4	5.4	B1/500		
BM (30°-60°)	1877.9	25.8	B2/2500		
BH (60°-80°)	1293.9	17.8	B3/2500		G3/2500
BVH (80°-90°)	32.3	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
2.5°	720.7	721.7	723.2	726.2	729.3	733.8	738.4	737.9	739.9	741.4	742.9
5°	716.6	717.6	720.1	724.2	728.7	736.3	746.0	750.0	753.0	758.6	763.7
7.5°	725.2	727.2	730.8	736.3	743.4	753.0	766.2	773.3	777.8	788.0	796.6
10°	736.8	739.4	746.5	757.1	767.7	782.4	799.1	809.7	812.8	825.9	842.1
12.5°	748.0	751.0	762.7	781.9	801.1	820.9	840.6	853.8	854.8	872.5	890.7
15°	765.7	768.2	783.9	808.7	838.1	865.4	889.7	898.8	902.8	915.5	938.3
17.5°	804.7	807.7	827.9	854.8	885.6	914.5	938.8	946.4	946.4	957.0	975.7
20°	846.7	849.7	876.5	910.9	948.4	977.7	996.5	989.4	986.8	989.9	1003.0
22.5°	893.7	899.3	925.1	965.1	1011.1	1047.1	1056.7	1035.4	1028.3	1021.3	1024.3
25°	954.0	960.5	985.8	1028.3	1073.4	1111.3	1116.9	1084.0	1080.0	1055.2	1046.1
27.5°	1023.3	1028.3	1059.7	1101.7	1143.7	1175.6	1181.7	1141.2	1127.5	1093.1	1071.9
30°	1112.9	1117.4	1144.7	1186.2	1222.7	1244.9	1252.5	1196.9	1186.2	1133.6	1100.7
32.5°	1210.5	1212.6	1240.4	1280.4	1312.8	1334.0	1323.4	1258.6	1242.9	1183.7	1138.7
35°	1322.4	1322.4	1358.3	1390.7	1416.5	1422.6	1402.3	1328.4	1310.2	1246.0	1189.8
37.5°	1432.2	1435.2	1468.6	1507.1	1529.9	1528.9	1491.9	1410.9	1390.2	1320.4	1258.1
40°	1551.1	1557.7	1591.1	1634.1	1655.9	1652.8	1596.2	1506.1	1484.8	1402.3	1341.6
42.5°	1660.4	1671.1	1710.0	1754.1	1777.8	1775.8	1716.6	1615.4	1594.6	1501.5	1440.8
45°	1747.5	1758.6	1807.2	1868.4	1906.4	1902.8	1843.1	1728.8	1703.5	1605.8	1539.0
47.5°	1823.9	1835.5	1889.7	1954.5	2014.7	2020.8	1966.1	1843.1	1816.3	1717.6	1642.2
50°	1882.6	1888.2	1948.9	2019.7	2089.6	2123.5	2075.9	1958.0	1925.6	1827.9	1742.9
52.5°	1878.0	1885.6	1960.5	2056.7	2150.3	2206.0	2173.1	2066.3	2034.9	1928.7	1845.7
55°	1785.4	1793.0	1882.1	2022.3	2184.2	2266.2	2262.7	2169.5	2146.8	2031.4	1952.4
57.5°	1650.3	1667.0	1755.6	1906.9	2139.7	2314.3	2328.5	2263.7	2239.9	2132.1	2058.2
60°	1408.4	1430.7	1532.9	1729.3	1997.0	2298.1	2398.8	2343.1	2328.5	2225.7	2153.9
62.5°	1023.3	1039.5	1175.6	1433.2	1785.4	2182.7	2458.0	2425.1	2414.0	2309.7	2240.4
65°	612.9	649.8	759.1	1013.7	1440.3	1965.1	2425.6	2532.4	2520.8	2396.3	2314.3
67.5°	310.2	326.9	369.9	549.6	968.6	1626.0	2263.2	2599.2	2613.4	2470.2	2340.6
70°	192.3	196.9	209.0	271.3	483.8	1068.3	1850.7	2425.1	2494.4	2458.5	2272.3
72.5°	154.4	155.4	157.4	169.0	232.3	499.5	1170.0	1899.3	2024.3	2296.1	2174.6
75°	128.0	128.5	129.0	132.6	144.7	203.9	569.3	1305.2	1451.4	1951.4	2016.2
77.5°	102.7	100.2	102.2	103.7	106.8	113.9	196.4	696.4	844.6	1280.9	1559.2
80°	66.8	65.8	69.8	71.4	74.4	78.9	104.8	236.3	286.9	466.1	496.0
82.5°	35.9	33.9	42.5	41.0	42.5	46.1	61.7	86.5	97.2	140.7	118.9
85°	11.1	11.1	11.6	13.7	16.7	16.2	26.8	42.5	47.1	60.2	44.5
87.5°	2.0	2.0	2.0	2.0	2.0	2.5	5.6	8.6	11.6	20.7	15.7
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°	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8	735.8
2.5°	746.0	741.4	743.9	745.4	744.9	743.9	738.9	737.9	735.3	731.3	730.3
5°	768.2	763.2	763.7	762.2	757.1	750.5	739.4	733.8	729.3	724.2	723.7
7.5°	803.1	797.6	796.1	789.0	774.8	759.6	741.9	731.8	724.2	717.6	716.6
10°	847.7	842.1	837.0	820.3	797.1	776.8	753.5	738.9	727.7	719.6	718.1
12.5°	897.3	892.7	880.1	855.8	827.9	804.2	780.4	762.2	746.0	733.8	732.3
15°	952.4	942.3	923.1	891.7	865.4	846.2	817.3	792.5	766.7	750.5	747.0
17.5°	990.9	982.3	959.5	929.2	908.4	891.7	857.8	822.4	787.5	763.7	758.6
20°	1018.2	1009.1	983.3	961.0	954.5	940.3	900.8	859.8	819.3	790.0	783.4
22.5°	1038.0	1028.3	1002.0	990.9	1000.0	997.5	959.0	912.5	864.4	829.5	821.4
25°	1056.7	1047.6	1024.3	1028.3	1052.6	1060.2	1018.7	964.6	909.9	868.9	859.3
27.5°	1074.4	1062.8	1052.1	1074.4	1108.8	1123.0	1079.0	1017.7	958.5	916.5	908.9
30°	1101.7	1088.1	1086.5	1118.9	1173.6	1185.7	1137.2	1075.9	1017.2	974.7	965.1
32.5°	1136.1	1123.5	1124.5	1173.1	1236.3	1246.5	1205.0	1147.8	1089.1	1046.6	1033.4
35°	1182.7	1167.0	1175.6	1235.3	1299.1	1317.8	1284.4	1236.8	1179.7	1136.1	1121.5
37.5°	1247.0	1224.2	1241.9	1304.7	1368.9	1396.8	1371.0	1335.5	1278.9	1234.8	1221.2
40°	1329.0	1310.2	1317.3	1386.6	1452.9	1486.3	1470.2	1435.2	1379.1	1333.0	1317.3
42.5°	1426.1	1407.4	1404.9	1478.8	1545.0	1595.7	1580.0	1548.1	1489.9	1437.3	1422.1
45°	1521.3	1504.1	1507.6	1583.0	1657.4	1712.6	1696.9	1659.4	1596.2	1535.4	1523.3
47.5°	1620.5	1606.3	1609.3	1689.3	1771.3	1826.4	1806.7	1761.1	1687.3	1622.5	1607.8
50°	1722.2	1706.0	1710.5	1794.5	1883.1	1935.2	1904.9	1837.6	1756.1	1692.8	1680.2
52.5°	1823.4	1804.2	1815.8	1895.3	1986.9	2028.4	1972.2	1890.7	1811.8	1749.0	1734.8
55°	1939.8	1919.5	1906.9	1991.9	2082.5	2099.7	2022.8	1927.6	1834.0	1762.7	1754.1
57.5°	2046.1	2028.9	2005.1	2090.1	2156.9	2144.2	2061.8	1917.5	1779.9	1688.3	1676.1
60°	2141.2	2126.5	2105.8	2178.2	2208.5	2180.2	2030.4	1797.6	1646.3	1550.6	1545.0
62.5°	2228.8	2213.1	2193.8	2255.6	2251.5	2185.7	1887.7	1613.4	1410.9	1308.2	1299.1
65°	2298.1	2283.9	2278.4	2326.9	2320.4	2076.9	1665.5	1311.7	1030.9	915.0	911.4
67.5°	2317.8	2312.3	2342.1	2424.6	2321.9	1858.3	1306.2	869.9	553.6	443.8	437.2
70°	2243.9	2243.4	2329.0	2446.9	2111.3	1419.5	770.8	392.2	278.3	247.0	242.9
72.5°	2147.8	2146.3	2214.1	2110.8	1565.8	776.8	324.4	210.0	174.1	165.5	165.5
75°	1989.9	1985.8	2037.0	1605.8	880.6	292.5	172.1	144.2	136.6	135.1	135.1
77.5°	1622.0	1588.1	1507.6	992.4	307.2	143.7	113.9	113.4	108.8	108.3	108.3
80°	533.4	533.4	619.9	378.5	135.6	88.6	80.5	84.5	80.0	76.9	76.4
82.5°	87.0	119.9	170.5	108.3	73.4	55.2	49.6	52.6	55.2	44.0	44.0
85°	34.4	45.0	65.8	50.6	33.9	22.3	23.8	26.3	23.3	20.2	19.7
87.5°	13.2	16.2	23.3	12.1	7.1	4.0	2.5	2.5	2.0	2.0	2.0
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)