

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: P631757

Luminaire Tested: GWS-SA2B-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631757  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-735-U-RW-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6000.3 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1  
  
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

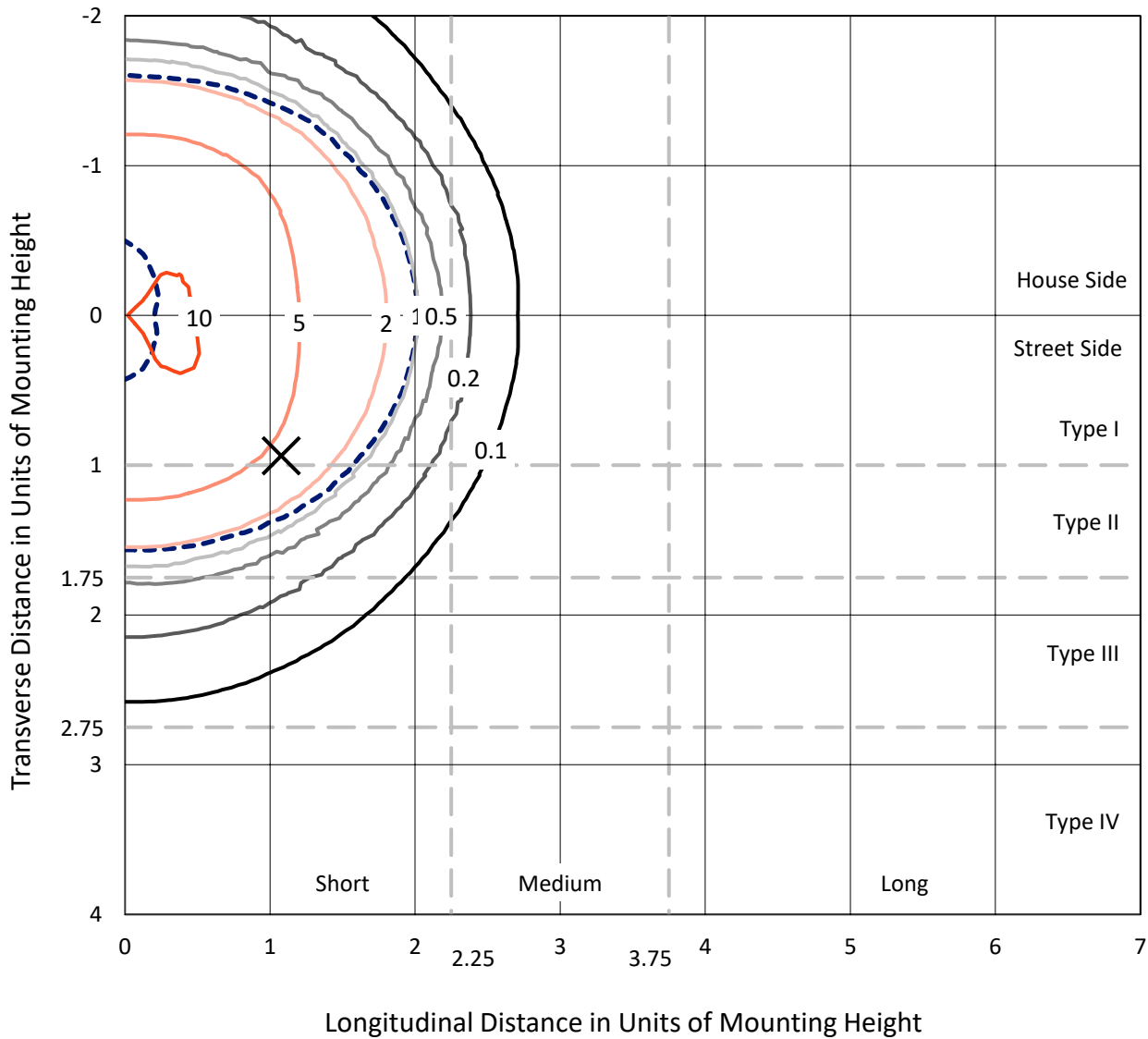


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### Iso-Footcandle Lines of Horizontal Illumination

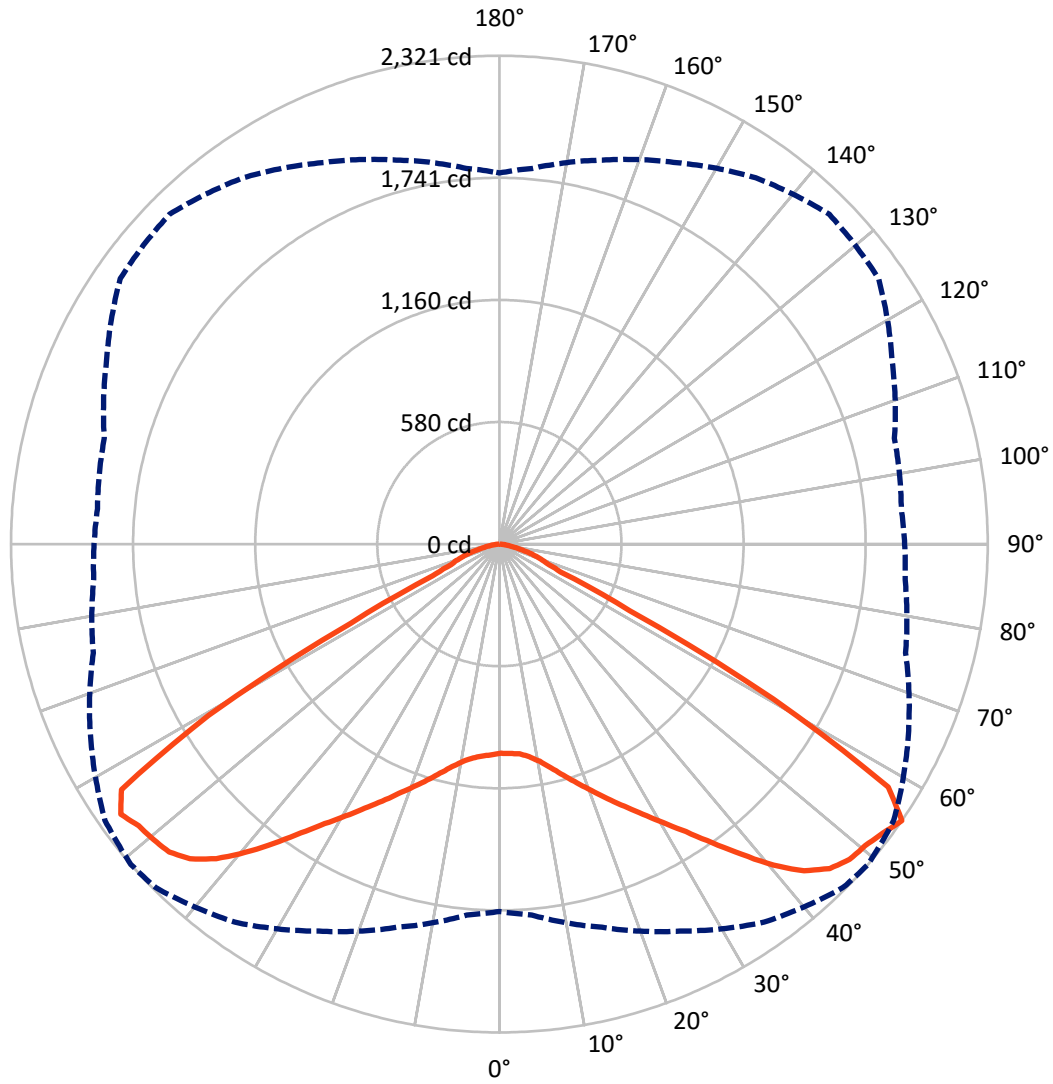
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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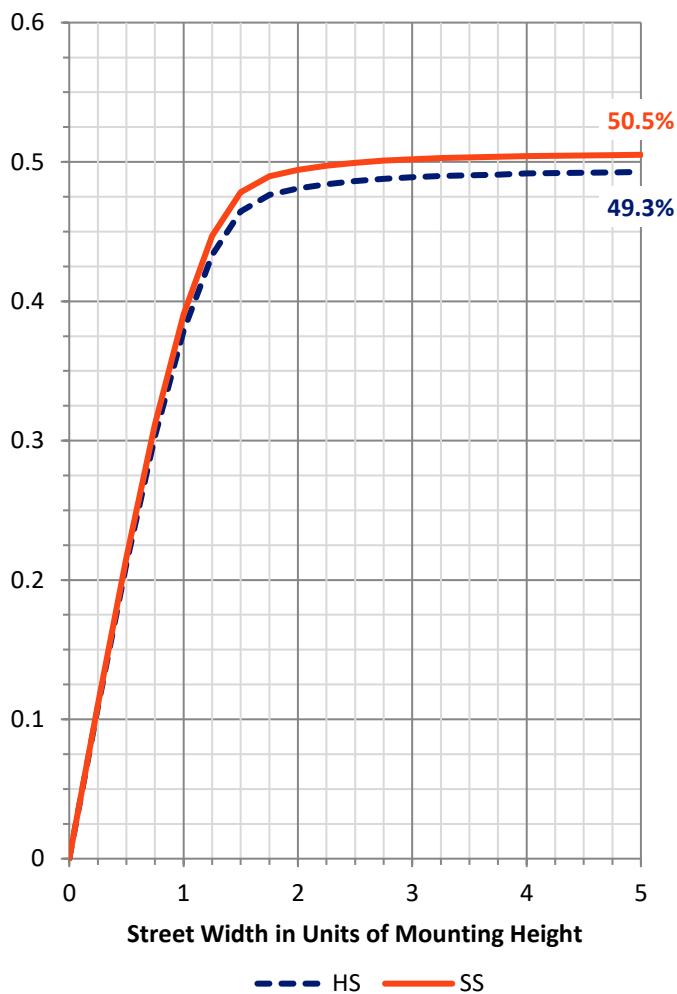
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2970.7	0.0	2970.7
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	3029.6	0.0	3029.6
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	6000.3	0.0	6000.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.0	1.6
10°-20°	319.8	5.3
20°-30°	609.2	10.2
30°-40°	1032.7	17.2
40°-50°	1554.1	25.9
50°-60°	1701.1	28.4
60°-70°	537.9	9.0
70°-80°	129.1	2.2
80°-90°	19.4	0.3
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°	6000.3	100.0
0°-180°	6000.3	100.0

**Coefficient of Utilization**



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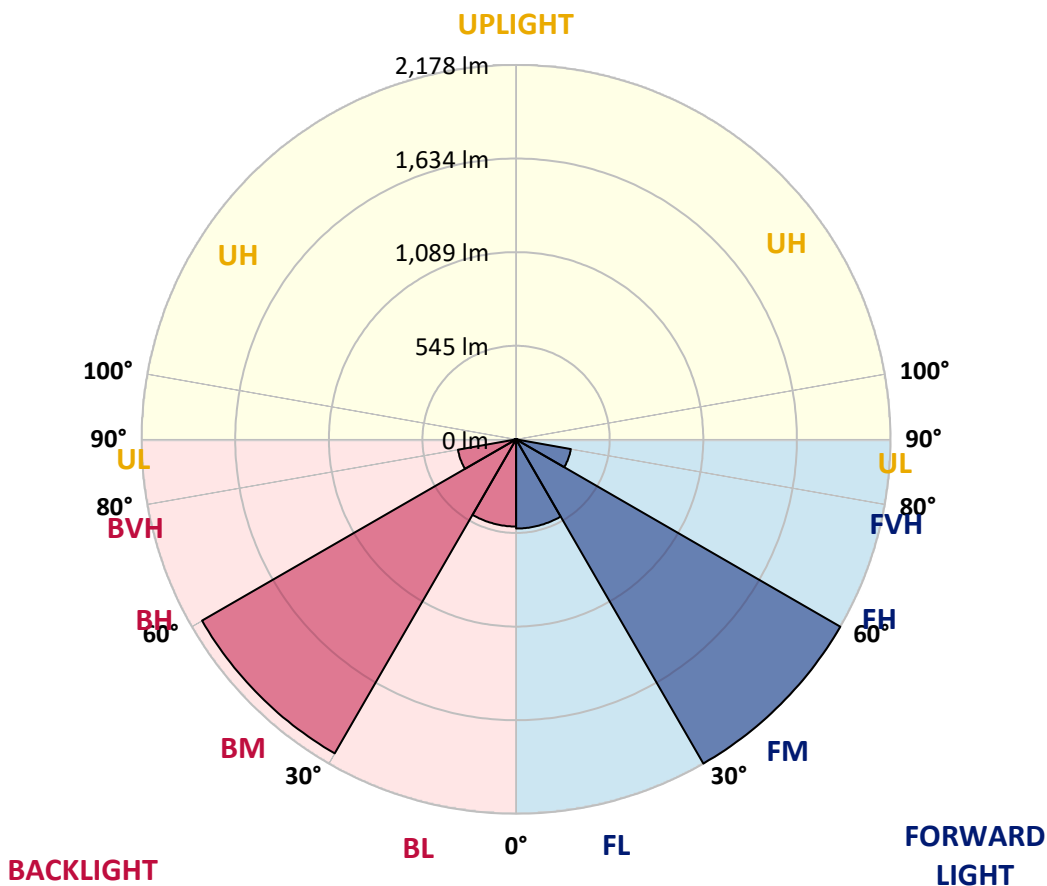
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	518.8	8.6			
FM (30°-60°)	2178.3	36.3			
FH (60°-80°)	323.6	5.4			G0/660
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	507.2	8.5	B2/1000		
BM (30°-60°)	2109.7	35.2	B2/2500		
BH (60°-80°)	343.4	5.7	B1/500		G0/660
BVH (80°-90°)	10.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	994.0	994.0	994.0	994.0	994.0	994.0	994.0	994.0	994.0	994.0	994.0
2.5°	979.3	980.3	982.3	985.7	989.1	994.0	995.9	998.4	997.9	1000.8	1000.8
5°	974.5	975.9	978.9	983.7	989.6	998.9	1001.3	1007.2	1013.0	1020.3	1022.8
7.5°	980.3	982.3	985.7	993.5	1002.3	1014.5	1019.4	1029.1	1040.3	1053.5	1058.9
10°	991.5	994.0	999.8	1012.5	1026.7	1045.2	1049.6	1061.8	1079.9	1097.9	1108.7
12.5°	1004.2	1008.1	1018.9	1038.9	1059.9	1084.3	1091.1	1106.2	1125.7	1149.2	1163.8
15°	1018.9	1022.3	1038.9	1067.2	1099.9	1132.1	1139.9	1154.5	1176.5	1199.4	1219.9
17.5°	1049.6	1055.5	1075.0	1107.7	1145.7	1183.8	1192.6	1209.2	1226.7	1244.8	1264.3
20°	1091.6	1096.5	1121.3	1161.8	1206.7	1241.4	1250.2	1264.8	1273.1	1282.4	1299.0
22.5°	1133.5	1140.4	1168.7	1216.5	1269.2	1306.8	1313.6	1327.3	1321.4	1318.5	1329.2
25°	1185.8	1195.0	1222.8	1275.1	1328.7	1375.1	1380.5	1392.2	1382.4	1367.3	1366.8
27.5°	1250.7	1259.0	1287.7	1341.4	1394.6	1442.9	1453.2	1468.8	1447.3	1428.8	1415.6
30°	1327.8	1333.1	1364.8	1421.9	1476.6	1522.5	1535.6	1551.2	1535.1	1504.4	1491.2
32.5°	1417.5	1424.9	1461.5	1521.5	1570.3	1616.1	1629.3	1648.8	1631.3	1596.6	1580.0
35°	1525.4	1532.7	1571.2	1636.6	1686.4	1733.7	1743.0	1759.1	1737.2	1697.1	1684.0
37.5°	1642.5	1651.8	1700.6	1762.5	1814.7	1869.9	1870.4	1875.3	1844.0	1794.2	1779.6
40°	1774.2	1786.4	1835.2	1899.7	1962.6	2007.5	2007.0	1993.3	1940.6	1863.5	1841.1
42.5°	1904.5	1914.3	1963.6	2029.9	2092.9	2135.3	2122.7	2089.5	2013.3	1908.4	1878.7
45°	1998.7	2006.0	2057.8	2132.4	2196.3	2222.7	2199.7	2159.7	2056.8	1936.7	1892.8
47.5°	2043.1	2052.9	2105.1	2179.3	2251.5	2266.6	2239.3	2201.7	2082.1	1963.1	1904.0
50°	2019.2	2031.9	2090.9	2159.7	2241.2	2272.5	2252.9	2215.4	2109.0	1988.9	1924.0
52.5°	1957.2	1969.4	2044.1	2127.5	2219.8	2281.7	2281.2	2250.5	2139.7	1996.3	1925.0
55°	1745.5	1769.4	1885.5	2029.4	2193.4	2309.1	2320.8	2288.1	2144.6	1998.2	1935.3
57.5°	1136.0	1177.9	1288.2	1475.6	1804.5	2100.2	2179.3	2187.1	2109.5	1989.9	1937.2
60°	474.3	508.0	595.3	719.7	991.5	1343.4	1496.6	1650.3	1835.7	1903.1	1919.2
62.5°	294.7	297.7	306.4	334.7	425.5	597.3	695.8	839.8	1115.5	1350.2	1458.5
65°	265.9	267.4	269.4	267.4	271.8	292.8	319.1	369.4	481.6	598.2	736.8
67.5°	234.2	236.2	237.6	236.2	237.6	238.6	241.5	245.9	266.4	283.0	295.7
70°	189.3	192.3	194.7	193.7	199.6	199.6	202.5	205.9	216.2	228.4	237.2
72.5°	144.4	142.0	144.9	145.9	151.3	154.2	158.6	162.5	174.2	181.5	192.7
75°	93.7	91.2	95.6	98.1	105.4	109.3	113.2	117.1	125.4	130.3	141.0
77.5°	50.7	50.3	54.7	58.1	65.9	70.8	73.7	76.6	83.4	84.9	91.7
80°	29.3	29.3	32.2	34.6	39.5	44.9	47.8	50.3	55.1	56.6	59.5
82.5°	16.1	16.1	17.6	19.0	22.9	25.9	28.3	30.3	34.6	36.1	37.6
85°	7.8	7.3	8.3	9.3	10.7	12.2	13.7	14.6	18.1	19.0	21.0
87.5°	1.0	1.0	1.0	1.5	2.0	2.9	3.4	3.4	5.4	6.3	7.3
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°	994.0	994.0	994.0	994.0	994.0	994.0	994.0	994.0	994.0	994.0	994.0
2.5°	1003.7	997.4	1001.3	1002.8	1002.8	1001.3	995.0	993.0	990.1	985.7	985.7
5°	1026.2	1021.3	1022.3	1019.8	1014.0	1006.7	995.0	989.1	984.2	978.9	978.4
7.5°	1064.7	1058.4	1057.4	1048.2	1032.5	1016.9	999.4	988.6	981.3	974.5	974.0
10°	1115.0	1109.1	1101.8	1083.3	1060.3	1037.4	1013.5	998.9	988.1	978.4	977.9
12.5°	1171.1	1164.3	1150.6	1123.3	1094.5	1072.1	1044.7	1022.3	1006.2	993.0	990.6
15°	1232.1	1222.4	1198.9	1166.7	1138.4	1114.5	1085.2	1053.0	1028.6	1007.6	1005.2
17.5°	1279.0	1266.3	1240.9	1210.6	1187.2	1163.3	1125.2	1084.7	1049.6	1023.3	1019.4
20°	1311.2	1300.9	1272.1	1249.7	1236.0	1215.0	1170.6	1124.8	1085.2	1052.1	1050.1
22.5°	1340.9	1328.7	1300.4	1287.3	1287.3	1273.1	1230.6	1176.5	1130.1	1091.6	1086.7
25°	1374.6	1361.4	1340.0	1338.5	1345.3	1339.0	1287.7	1229.7	1175.5	1132.1	1124.3
27.5°	1421.4	1406.8	1394.1	1402.9	1412.7	1405.8	1348.7	1281.4	1224.3	1180.4	1173.6
30°	1496.1	1478.0	1466.3	1477.1	1496.1	1476.1	1414.1	1342.9	1285.3	1237.0	1233.6
32.5°	1583.0	1562.5	1550.3	1567.3	1584.4	1553.2	1491.7	1423.4	1362.9	1312.1	1306.3
35°	1687.4	1661.5	1643.5	1666.4	1684.0	1653.2	1592.2	1527.3	1460.0	1407.3	1399.5
37.5°	1780.1	1748.9	1736.7	1768.9	1792.3	1772.3	1705.9	1644.9	1571.2	1513.7	1510.3
40°	1847.4	1816.7	1807.9	1861.1	1902.1	1897.2	1837.7	1767.9	1698.6	1632.2	1625.9
42.5°	1876.7	1855.2	1857.2	1928.9	1992.4	2023.6	1970.4	1895.7	1828.9	1760.1	1755.7
45°	1883.1	1869.9	1885.5	1975.3	2058.7	2122.7	2077.3	2014.8	1939.2	1872.8	1870.9
47.5°	1889.9	1882.6	1906.5	2001.6	2100.7	2174.9	2149.5	2085.1	2008.5	1943.6	1938.7
50°	1906.0	1903.1	1929.9	2020.2	2120.7	2189.0	2160.2	2096.3	2017.7	1953.8	1942.1
52.5°	1910.9	1906.0	1944.5	2049.0	2153.9	2188.5	2126.6	2043.1	1964.1	1892.8	1880.6
55°	1926.0	1917.2	1943.6	2059.7	2199.7	2216.8	2124.6	1999.7	1889.4	1792.3	1763.5
57.5°	1929.9	1920.1	1937.2	2042.1	2150.0	2134.8	1867.4	1613.7	1405.8	1298.0	1310.2
60°	1908.9	1911.8	1882.6	1870.9	1724.5	1522.5	1143.3	914.0	717.8	634.8	652.9
62.5°	1453.2	1465.4	1365.3	1187.2	913.0	723.7	478.7	371.8	314.7	300.1	302.5
65°	733.4	750.0	646.1	534.3	397.2	321.1	277.7	268.9	265.9	262.5	262.5
67.5°	290.3	295.2	291.3	272.8	253.7	246.9	245.0	244.0	240.6	238.6	239.1
70°	233.2	237.2	231.3	219.6	211.8	211.3	210.3	208.4	205.9	205.9	207.4
72.5°	190.3	194.2	185.9	178.6	172.7	168.3	165.9	164.4	161.0	161.0	162.5
75°	140.0	142.5	135.7	134.7	128.3	123.9	120.0	118.1	113.7	111.7	113.2
77.5°	93.2	92.7	89.3	89.3	86.9	81.5	77.1	72.7	66.9	62.9	63.9
80°	60.5	60.5	59.0	59.0	56.6	52.2	46.8	42.5	39.0	36.1	36.1
82.5°	38.5	38.1	37.6	37.1	36.1	31.7	27.8	24.9	22.4	20.5	21.0
85°	21.5	21.5	20.5	20.5	18.5	16.1	14.2	12.2	10.7	10.2	10.2
87.5°	7.3	7.3	6.8	6.8	5.9	4.4	3.4	2.9	2.4	2.0	2.4
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)