

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: P632527

Luminaire Tested: GWS-SA2C-830-U-RW-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632527  
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-SA2C-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

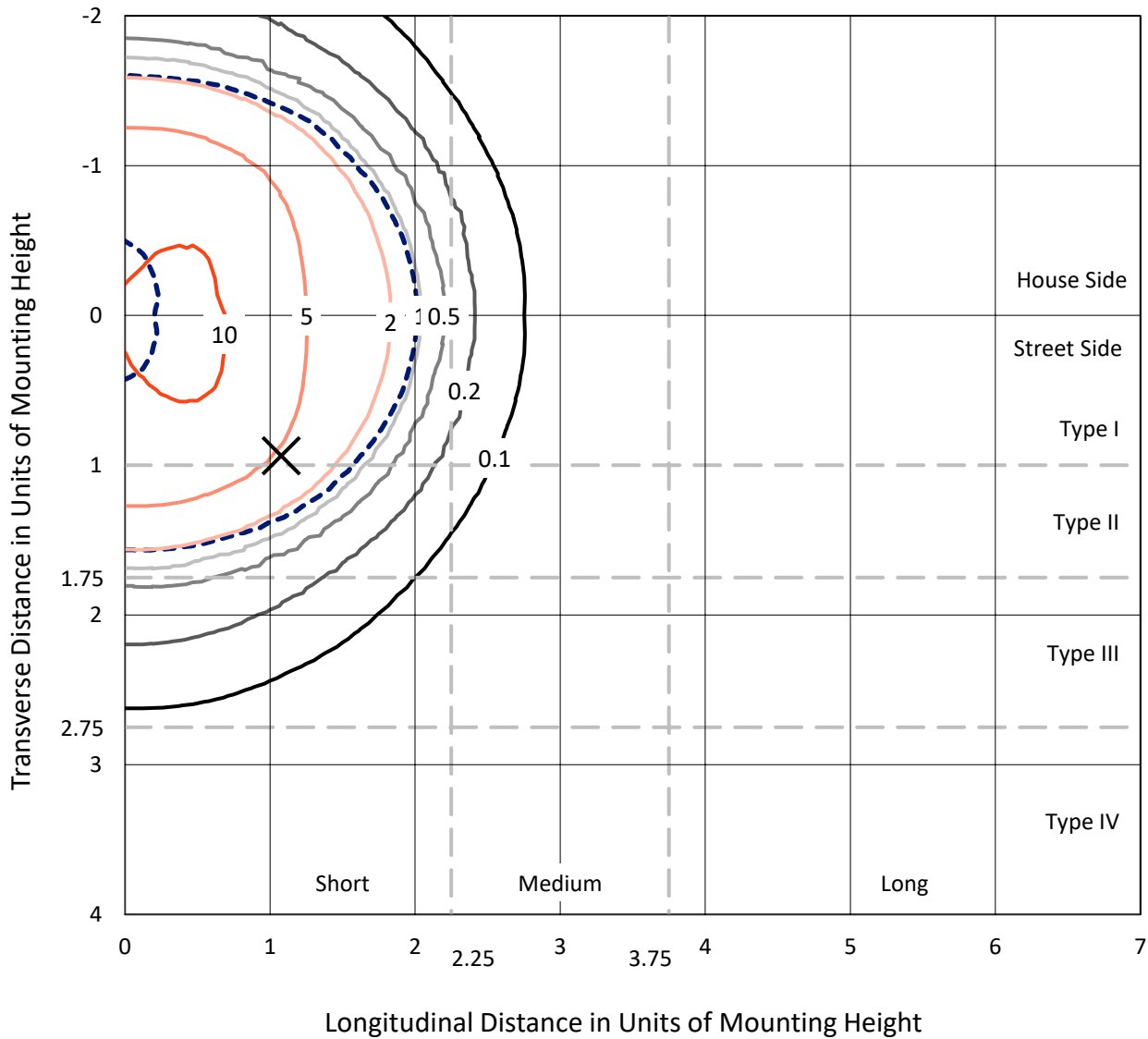
Lumens per Lamp: N/A  
Luminaire Lumens: 6481.3 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

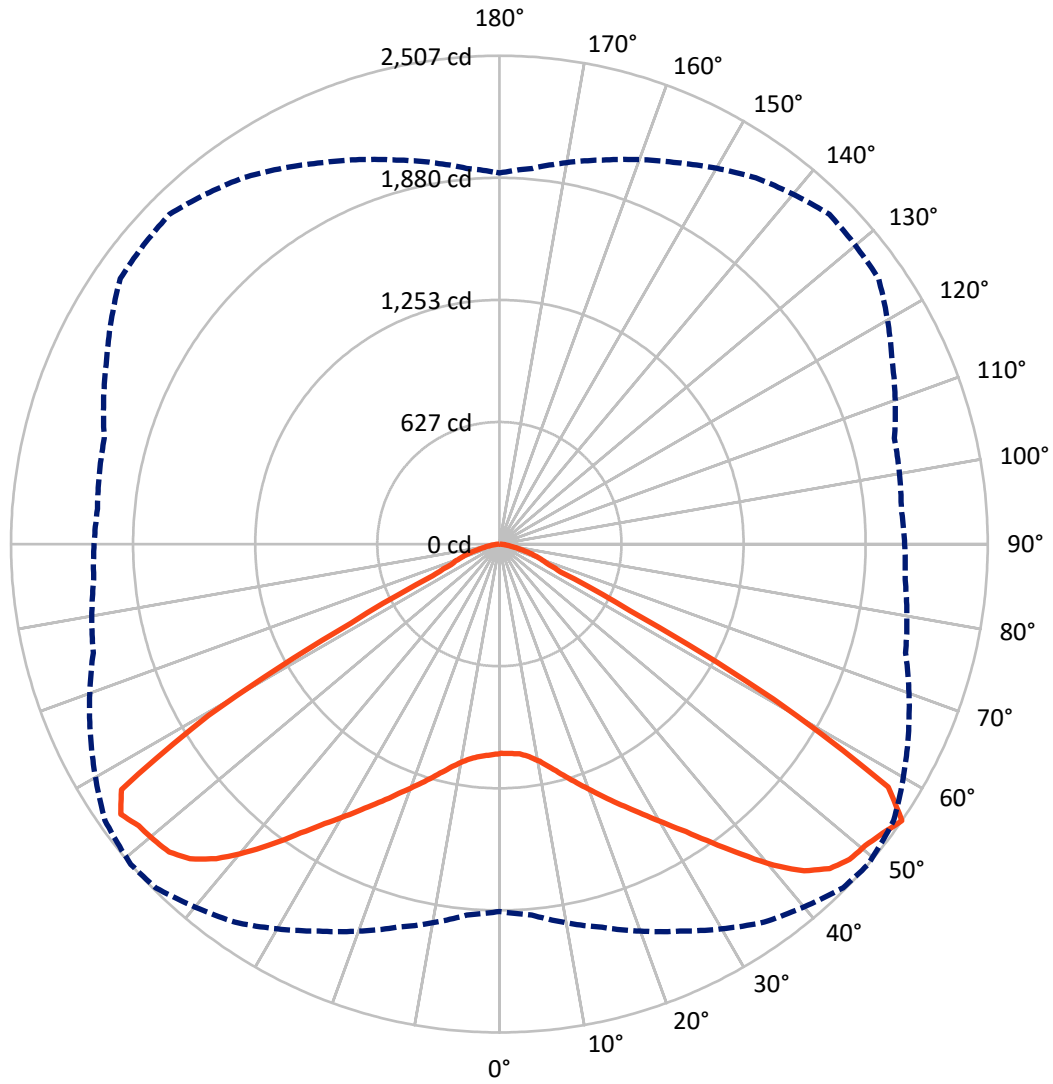
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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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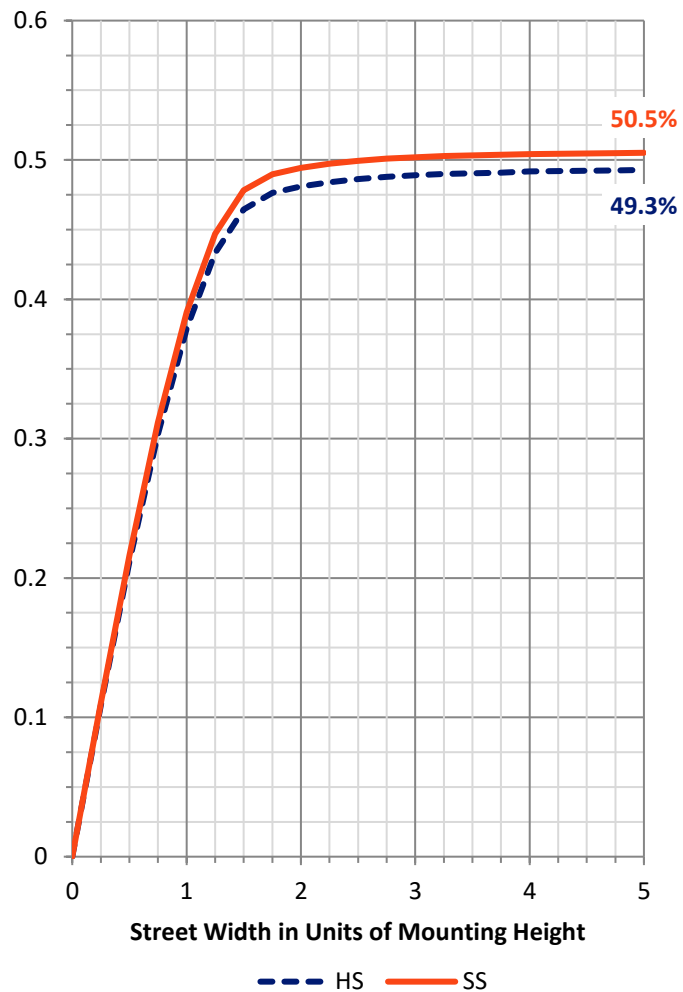
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3208.9	0.0	3208.9
	% Fixture	49.5	0.0	49.5
<b>Street Side</b>	Lumens	3272.4	0.0	3272.4
	% Fixture	50.5	0.0	50.5
<b>Total</b>	Lumens	6481.3	0.0	6481.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.7	1.6
10°-20°	345.5	5.3
20°-30°	658.0	10.2
30°-40°	1115.5	17.2
40°-50°	1678.7	25.9
50°-60°	1837.5	28.4
60°-70°	581.0	9.0
70°-80°	139.4	2.2
80°-90°	20.9	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°	6481.3	100.0
0°-180°	6481.3	100.0

**Coefficient of Utilization**



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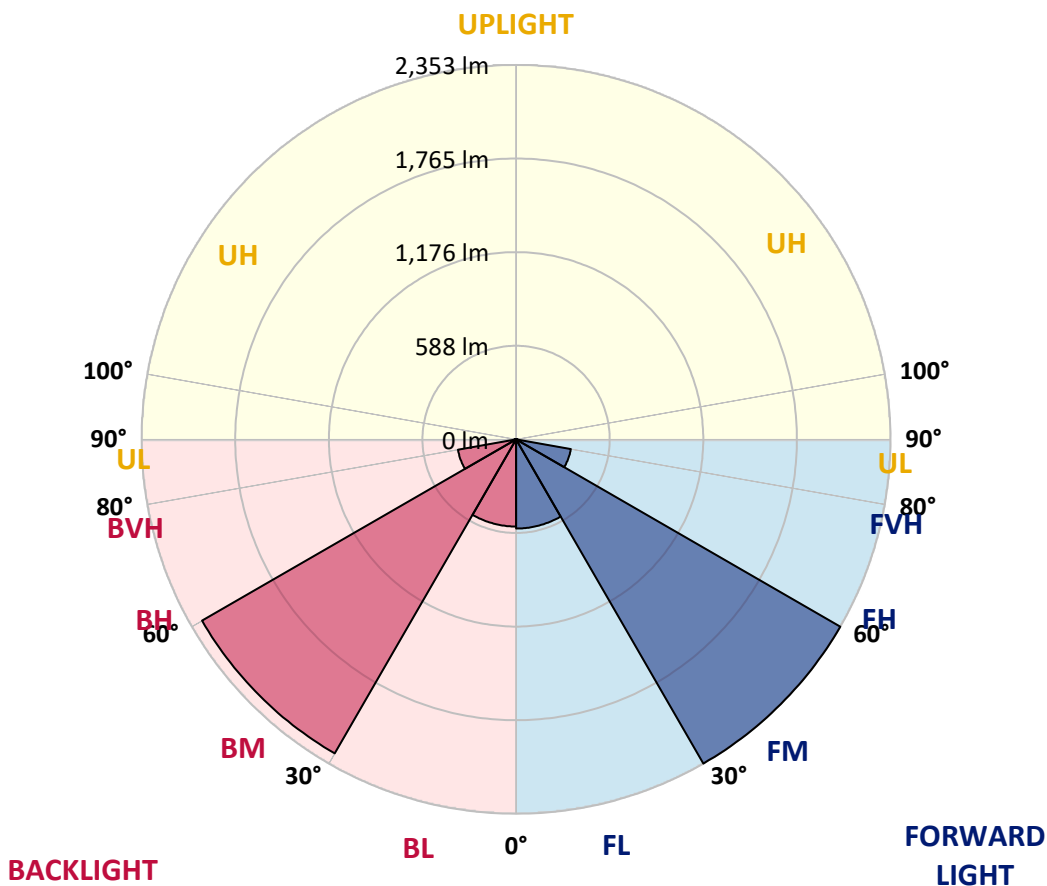
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	560.4	8.6			
FM (30°-60°)	2352.9	36.3			
FH (60°-80°)	349.5	5.4			G0/660
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	547.8	8.5	B2/1000		
BM (30°-60°)	2278.8	35.2	B2/2500		
BH (60°-80°)	371.0	5.7	B1/500		G0/660
BVH (80°-90°)	11.2	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°	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7
2.5°	1057.9	1058.9	1061.0	1064.7	1068.4	1073.7	1075.8	1078.4	1077.9	1081.0	1081.0
5°	1052.6	1054.2	1057.3	1062.6	1068.9	1078.9	1081.6	1087.9	1094.2	1102.1	1104.8
7.5°	1058.9	1061.0	1064.7	1073.1	1082.6	1095.8	1101.1	1111.6	1123.7	1138.0	1143.8
10°	1071.0	1073.7	1080.0	1093.7	1109.0	1129.0	1133.8	1146.9	1166.4	1185.9	1197.5
12.5°	1084.7	1089.0	1100.5	1122.2	1144.8	1171.2	1178.6	1194.9	1216.0	1241.3	1257.1
15°	1100.5	1104.2	1122.2	1152.7	1188.0	1222.8	1231.3	1247.1	1270.8	1295.6	1317.7
17.5°	1133.8	1140.1	1161.2	1196.5	1237.6	1278.7	1288.2	1306.1	1325.1	1344.6	1365.7
20°	1179.1	1184.4	1211.2	1255.0	1303.5	1340.9	1350.4	1366.2	1375.2	1385.2	1403.1
22.5°	1224.4	1231.8	1262.4	1314.0	1370.9	1411.5	1418.9	1433.7	1427.3	1424.2	1435.8
25°	1280.8	1290.8	1320.9	1377.3	1435.2	1485.3	1491.1	1503.8	1493.2	1476.9	1476.4
27.5°	1350.9	1359.9	1391.0	1448.9	1506.4	1558.6	1569.7	1586.5	1563.3	1543.3	1529.1
30°	1434.2	1440.0	1474.2	1535.9	1595.0	1644.5	1658.7	1675.6	1658.2	1625.0	1610.8
32.5°	1531.2	1539.1	1578.6	1643.4	1696.2	1745.7	1759.9	1781.0	1762.0	1724.6	1706.7
35°	1647.7	1655.6	1697.2	1767.8	1821.6	1872.7	1882.7	1900.1	1876.4	1833.2	1819.0
37.5°	1774.2	1784.2	1836.9	1903.8	1960.2	2019.8	2020.3	2025.6	1991.8	1938.1	1922.3
40°	1916.5	1929.6	1982.4	2051.9	2119.9	2168.4	2167.9	2153.1	2096.2	2012.9	1988.7
42.5°	2057.2	2067.7	2121.0	2192.7	2260.7	2306.5	2292.8	2257.0	2174.7	2061.4	2029.3
45°	2158.9	2166.8	2222.7	2303.3	2372.4	2400.9	2376.1	2332.9	2221.7	2092.0	2044.6
47.5°	2206.9	2217.4	2273.8	2353.9	2432.0	2448.3	2418.8	2378.2	2249.1	2120.5	2056.7
50°	2181.1	2194.8	2258.5	2332.9	2420.9	2454.6	2433.5	2393.0	2278.0	2148.4	2078.3
52.5°	2114.1	2127.3	2207.9	2298.1	2397.7	2464.6	2464.1	2430.9	2311.3	2156.3	2079.3
55°	1885.4	1911.2	2036.6	2192.1	2369.2	2494.2	2506.8	2471.5	2316.5	2158.4	2090.4
57.5°	1227.0	1272.4	1391.5	1593.9	1949.2	2268.6	2353.9	2362.4	2278.6	2149.4	2092.5
60°	512.3	548.7	643.0	777.4	1071.0	1451.1	1616.6	1782.6	1982.9	2055.6	2073.0
62.5°	318.4	321.5	331.0	361.6	459.6	645.1	751.6	907.1	1204.9	1458.4	1575.4
65°	287.3	288.8	290.9	288.8	293.6	316.2	344.7	399.0	520.2	646.2	795.9
67.5°	253.0	255.1	256.7	255.1	256.7	257.7	260.9	265.6	287.8	305.7	319.4
70°	204.5	207.7	210.3	209.3	215.6	215.6	218.7	222.4	233.5	246.7	256.2
72.5°	156.0	153.4	156.5	157.6	163.4	166.6	171.3	175.5	188.2	196.1	208.2
75°	101.2	98.6	103.3	105.9	113.8	118.1	122.3	126.5	135.5	140.7	152.3
77.5°	54.8	54.3	59.0	62.7	71.2	76.4	79.6	82.8	90.1	91.7	99.1
80°	31.6	31.6	34.8	37.4	42.7	48.5	51.7	54.3	59.6	61.1	64.3
82.5°	17.4	17.4	19.0	20.6	24.8	27.9	30.6	32.7	37.4	39.0	40.6
85°	8.4	7.9	9.0	10.0	11.6	13.2	14.8	15.8	19.5	20.6	22.7
87.5°	1.1	1.1	1.1	1.6	2.1	3.2	3.7	3.7	5.8	6.9	7.9
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°	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7	1073.7
2.5°	1084.2	1077.4	1081.6	1083.2	1083.2	1081.6	1074.7	1072.6	1069.4	1064.7	1064.7
5°	1108.5	1103.2	1104.2	1101.6	1095.3	1087.4	1074.7	1068.4	1063.1	1057.3	1056.8
7.5°	1150.1	1143.2	1142.2	1132.2	1115.3	1098.4	1079.5	1067.9	1060.0	1052.6	1052.1
10°	1204.4	1198.1	1190.2	1170.1	1145.3	1120.6	1094.7	1078.9	1067.3	1056.8	1056.3
12.5°	1265.0	1257.6	1242.9	1213.3	1182.2	1158.0	1128.5	1104.2	1086.8	1072.6	1070.0
15°	1330.9	1320.3	1295.0	1260.3	1229.7	1203.9	1172.2	1137.4	1111.1	1088.4	1085.8
17.5°	1381.5	1367.8	1340.4	1307.7	1282.4	1256.6	1215.5	1171.7	1133.8	1105.3	1101.1
20°	1416.3	1405.2	1374.1	1349.9	1335.1	1312.4	1264.5	1214.9	1172.2	1136.4	1134.3
22.5°	1448.4	1435.2	1404.7	1390.4	1390.4	1375.2	1329.3	1270.8	1220.7	1179.1	1173.8
25°	1484.8	1470.6	1447.4	1445.8	1453.2	1446.3	1391.0	1328.2	1269.7	1222.8	1214.4
27.5°	1535.4	1519.6	1505.9	1515.4	1525.9	1518.5	1456.9	1384.1	1322.4	1275.0	1267.6
30°	1616.0	1596.5	1583.9	1595.5	1616.0	1594.4	1527.5	1450.5	1388.3	1336.2	1332.5
32.5°	1709.9	1687.7	1674.5	1693.0	1711.4	1677.7	1611.3	1537.5	1472.1	1417.3	1411.0
35°	1822.7	1794.7	1775.2	1800.0	1819.0	1785.8	1719.9	1649.8	1577.0	1520.1	1511.7
37.5°	1922.8	1889.1	1875.9	1910.7	1936.0	1914.4	1842.7	1776.8	1697.2	1635.0	1631.3
40°	1995.5	1962.3	1952.8	2010.3	2054.6	2049.3	1985.0	1909.6	1834.8	1763.1	1756.2
42.5°	2027.2	2004.0	2006.1	2083.6	2152.1	2185.8	2128.4	2047.7	1975.5	1901.2	1896.4
45°	2034.0	2019.8	2036.6	2133.6	2223.8	2292.8	2243.8	2176.3	2094.6	2022.9	2020.8
47.5°	2041.4	2033.5	2059.3	2162.1	2269.1	2349.2	2321.8	2252.2	2169.5	2099.4	2094.1
50°	2058.8	2055.6	2084.6	2182.1	2290.7	2364.5	2333.4	2264.3	2179.5	2110.4	2097.8
52.5°	2064.1	2058.8	2100.4	2213.2	2326.5	2364.0	2297.0	2206.9	2121.5	2044.6	2031.4
55°	2080.4	2070.9	2099.4	2224.8	2376.1	2394.5	2294.9	2160.0	2040.9	1936.0	1904.9
57.5°	2084.6	2074.1	2092.5	2205.8	2322.3	2306.0	2017.1	1743.1	1518.5	1402.0	1415.2
60°	2061.9	2065.1	2033.5	2020.8	1862.7	1644.5	1235.0	987.2	775.3	685.7	705.2
62.5°	1569.7	1582.8	1474.8	1282.4	986.2	781.7	517.1	401.6	340.0	324.2	326.8
65°	792.2	810.1	697.9	577.2	429.0	346.8	299.9	290.4	287.3	283.6	283.6
67.5°	313.6	318.9	314.7	294.6	274.1	266.7	264.6	263.5	259.9	257.7	258.3
70°	251.9	256.2	249.8	237.2	228.8	228.2	227.2	225.1	222.4	222.4	224.0
72.5°	205.6	209.8	200.8	192.9	186.6	181.8	179.2	177.6	173.9	173.9	175.5
75°	151.3	153.9	146.5	145.5	138.6	133.9	129.7	127.6	122.8	120.7	122.3
77.5°	100.7	100.1	96.5	96.5	93.8	88.0	83.3	78.5	72.2	68.0	69.0
80°	65.4	65.4	63.8	63.8	61.1	56.4	50.6	45.9	42.2	39.0	39.0
82.5°	41.6	41.1	40.6	40.1	39.0	34.3	30.0	26.9	24.2	22.1	22.7
85°	23.2	23.2	22.1	22.1	20.0	17.4	15.3	13.2	11.6	11.1	11.1
87.5°	7.9	7.9	7.4	7.4	6.3	4.7	3.7	3.2	2.6	2.1	2.6
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)