

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: P631866

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)  
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-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

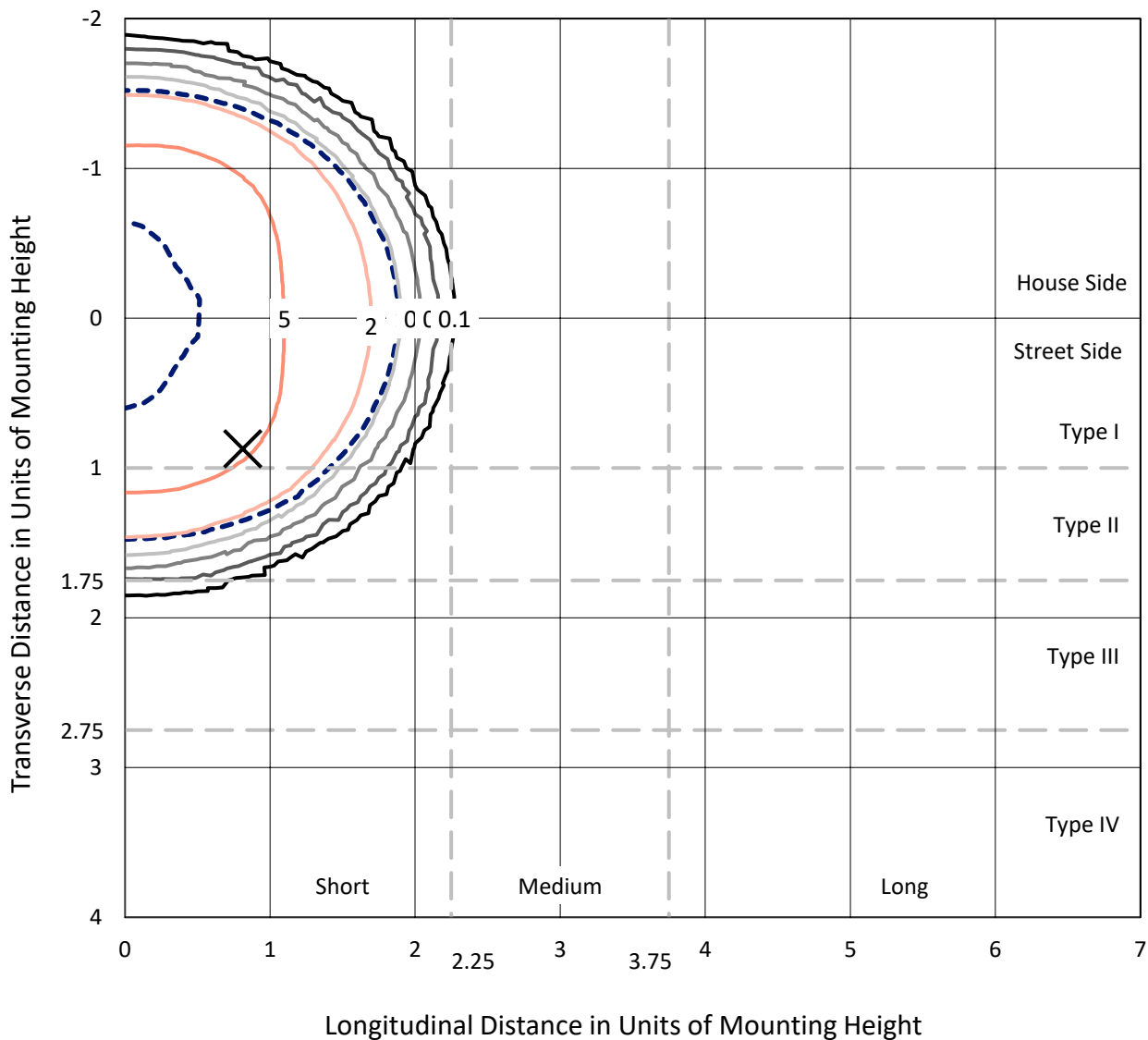
Lumens per Lamp: N/A  
Luminaire Lumens: 4575.3 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

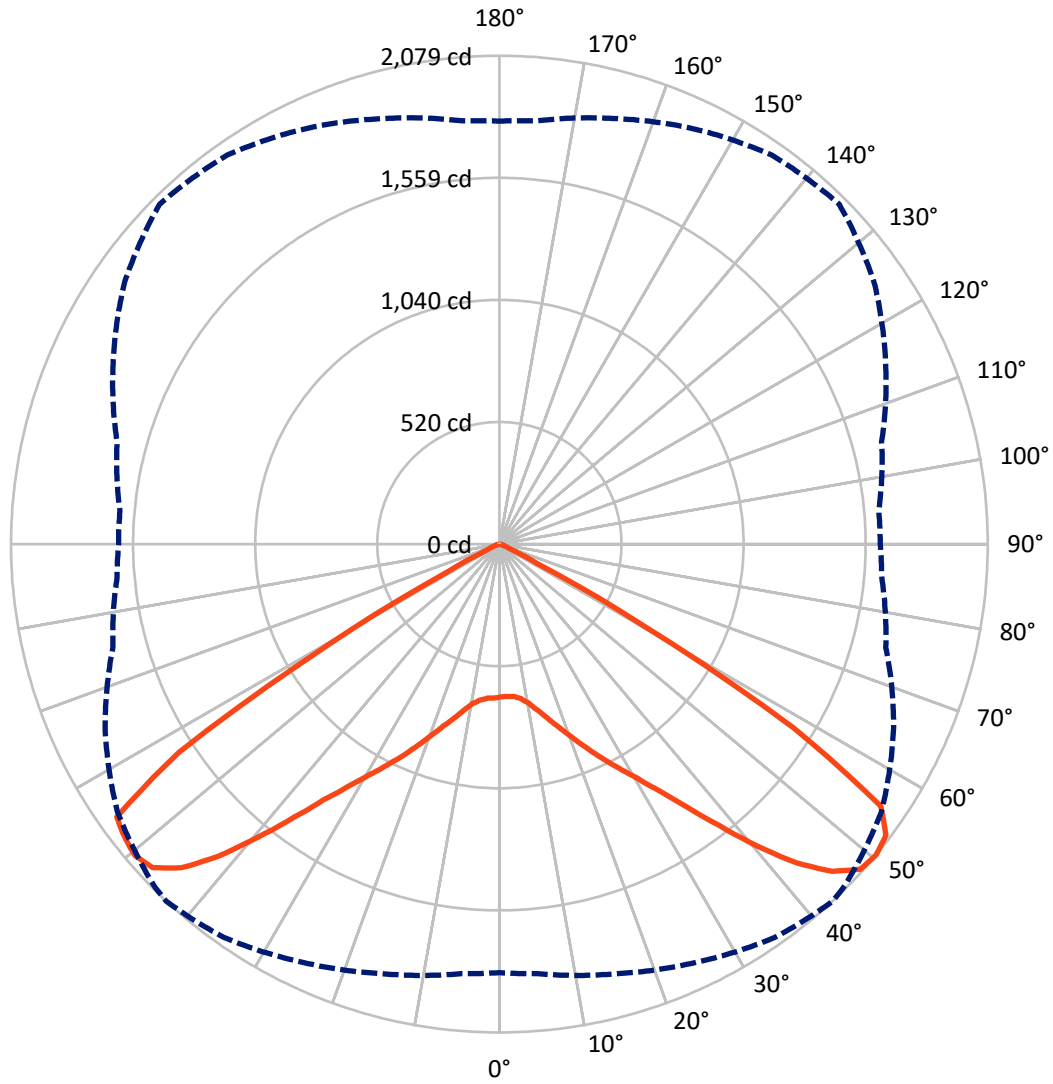
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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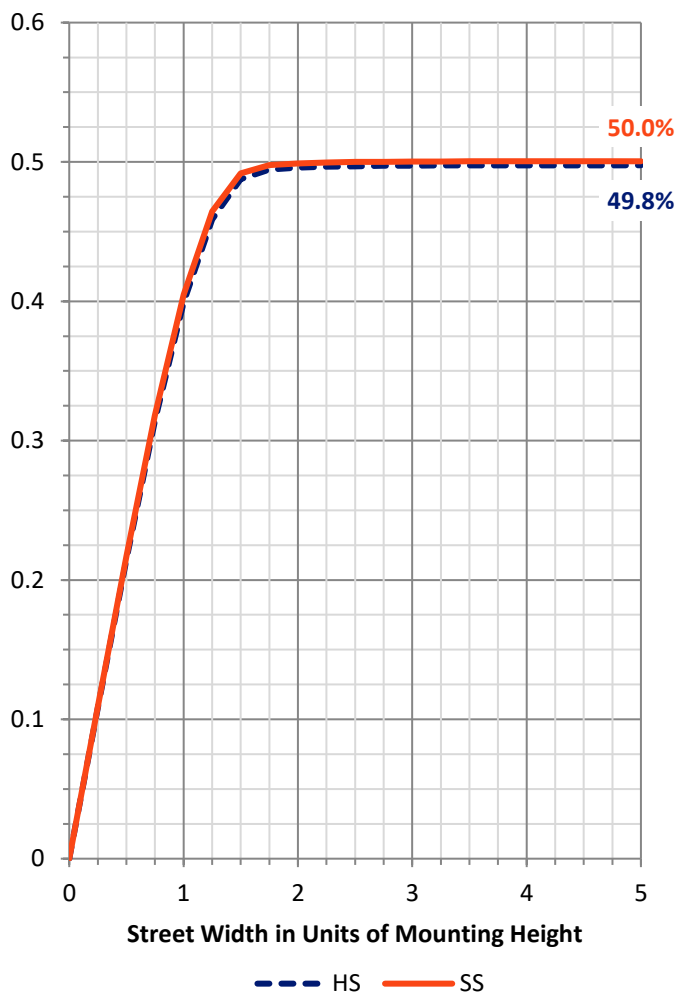
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2287.6	0.0	2287.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2287.7	0.0	2287.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4575.3	0.0	4575.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	1.4
10°-20°	220.5	4.8
20°-30°	446.2	9.8
30°-40°	827.8	18.1
40°-50°	1374.1	30.0
50°-60°	1402.4	30.7
60°-70°	230.0	5.0
70°-80°	10.1	0.2
80°-90°	0.1	0.0
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°	4575.3	100.0
0°-180°	4575.3	100.0

**Coefficient of Utilization**



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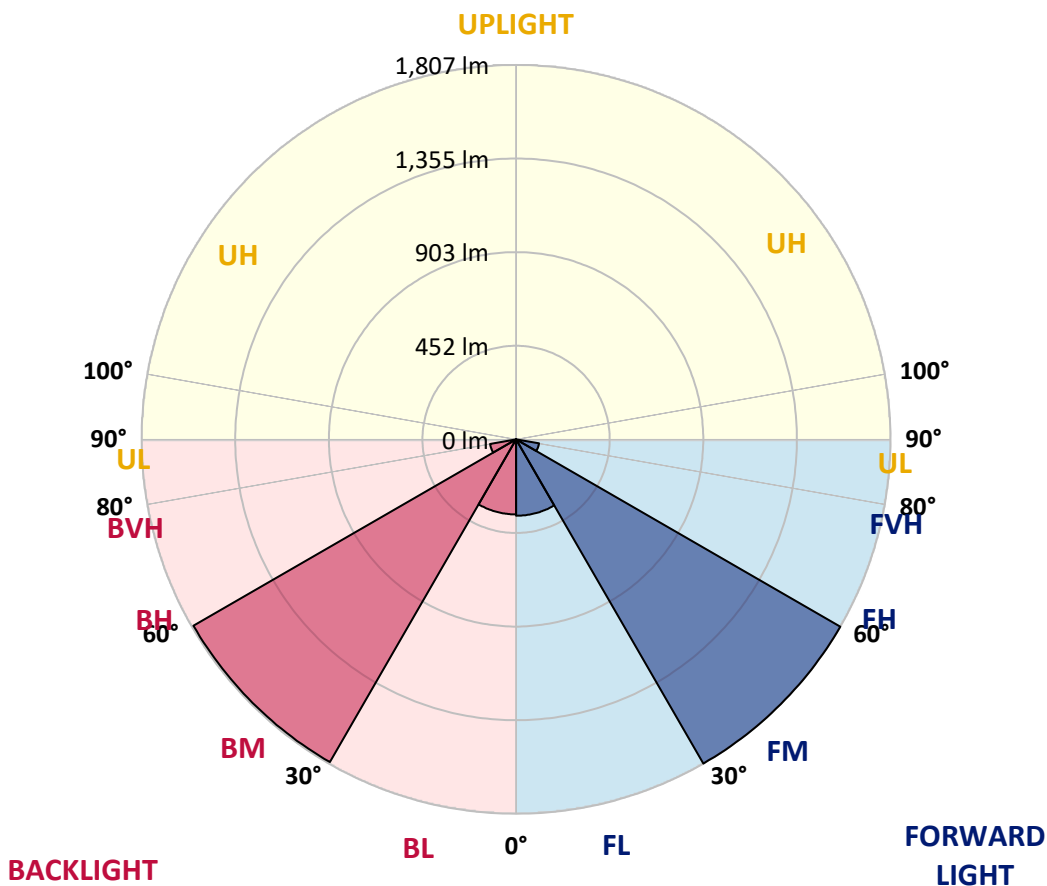
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.6	8.1			
FM (30°-60°)	1806.5	39.5			
FH (60°-80°)	112.5	2.5			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	362.2	7.9	B1/500		
BM (30°-60°)	1797.8	39.3	B2/2500		
BH (60°-80°)	127.5	2.8	B1/500		G0/660
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8
2.5°	638.6	640.1	642.2	644.2	646.7	649.2	650.8	655.3	654.3	658.4	658.4
5°	631.5	633.1	635.6	640.1	645.7	651.3	655.3	664.4	669.5	677.6	680.6
7.5°	635.1	637.1	640.1	647.2	655.8	664.4	669.0	683.7	693.8	709.0	717.6
10°	646.7	648.7	653.8	665.9	677.1	689.2	694.8	713.5	729.7	750.5	762.6
12.5°	659.9	662.4	672.5	690.7	710.0	726.2	733.8	754.5	771.2	794.5	813.7
15°	673.5	677.6	693.3	720.1	747.4	769.2	777.3	799.5	816.2	841.0	862.8
17.5°	705.4	710.0	727.7	756.5	794.0	819.3	826.4	849.6	862.3	879.0	901.8
20°	745.4	754.0	775.8	810.7	851.7	876.0	881.0	903.8	902.8	909.9	929.6
22.5°	795.0	801.1	824.8	866.3	912.4	939.2	950.8	960.5	947.8	941.7	954.4
25°	846.6	853.7	879.5	925.0	976.7	1007.5	1017.1	1024.7	1004.5	981.7	983.2
27.5°	913.4	918.5	943.8	992.3	1044.0	1078.9	1087.5	1100.6	1073.8	1037.4	1027.3
30°	992.8	997.9	1024.7	1075.8	1126.9	1156.8	1170.0	1186.2	1156.8	1111.3	1099.6
32.5°	1086.0	1091.0	1125.4	1178.1	1220.1	1252.4	1265.1	1282.3	1259.0	1207.9	1194.8
35°	1197.3	1200.3	1240.8	1298.0	1342.5	1373.9	1382.5	1402.7	1376.9	1325.8	1318.7
37.5°	1326.3	1329.9	1373.9	1440.2	1485.7	1520.6	1534.3	1539.9	1508.5	1451.3	1445.7
40°	1468.0	1479.7	1522.7	1594.0	1645.1	1689.2	1701.3	1682.6	1638.5	1560.6	1550.5
42.5°	1615.8	1625.9	1674.0	1751.4	1810.6	1855.6	1856.1	1815.7	1740.8	1633.0	1617.8
45°	1738.7	1742.8	1805.0	1883.0	1955.8	1987.7	1990.8	1917.4	1804.5	1675.0	1642.6
47.5°	1823.3	1829.8	1884.0	1958.9	2039.3	2068.2	2062.1	1970.5	1834.9	1702.3	1648.7
50°	1824.3	1835.4	1894.1	1966.5	2044.4	2079.3	2070.7	1985.7	1852.1	1703.3	1634.0
52.5°	1662.8	1681.1	1776.7	1881.4	2000.9	2060.6	2062.6	2005.4	1845.5	1687.1	1620.8
55°	1254.5	1274.2	1394.6	1573.3	1804.0	1970.5	1999.4	1982.1	1837.9	1694.2	1644.1
57.5°	663.9	648.7	715.5	892.6	1182.6	1477.1	1561.6	1699.3	1753.4	1702.8	1687.1
60°	144.7	154.3	205.5	276.8	461.5	694.8	777.3	1013.1	1293.4	1417.9	1508.0
62.5°	62.2	61.2	63.8	72.4	105.8	176.1	215.1	351.2	554.1	761.1	901.3
65°	51.1	51.6	53.6	53.6	50.1	50.6	53.1	80.5	129.5	181.7	243.9
67.5°	38.5	39.0	42.5	43.5	41.0	36.4	35.9	30.4	31.9	40.0	41.5
70°	24.3	24.3	26.3	27.3	27.3	25.3	24.8	21.8	21.3	24.3	27.3
72.5°	13.2	13.2	14.2	14.7	14.2	13.7	13.7	13.2	12.7	14.7	18.7
75°	5.6	5.6	6.1	6.1	5.6	5.6	5.6	5.6	5.6	6.6	10.1
77.5°	1.0	1.5	2.0	1.5	1.0	1.0	1.0	1.5	1.5	2.0	3.0
80°	0.5	0.5	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8	650.8
2.5°	661.9	656.3	658.4	659.4	657.8	656.8	651.3	649.8	647.2	643.2	642.2
5°	684.2	679.6	679.1	676.1	669.0	660.4	649.8	645.2	640.1	635.1	634.1
7.5°	721.6	716.0	712.5	702.4	686.2	672.5	654.8	645.2	638.6	632.0	630.5
10°	769.7	763.1	753.0	734.3	712.5	692.8	672.0	659.4	649.2	640.1	639.6
12.5°	820.8	813.7	795.5	771.7	745.4	727.2	700.9	683.2	668.0	654.3	652.8
15°	874.4	865.8	841.0	812.7	788.4	769.7	740.8	712.5	689.2	669.5	667.5
17.5°	915.4	904.8	875.4	854.2	834.5	815.2	782.8	745.4	714.5	690.7	685.2
20°	941.2	931.1	903.3	891.6	882.5	868.9	830.4	791.4	757.0	727.7	722.6
22.5°	966.0	953.9	929.6	929.6	936.7	931.1	889.6	845.1	804.6	770.7	763.1
25°	993.9	984.2	967.0	981.2	998.9	998.4	955.9	900.2	853.7	815.7	808.1
27.5°	1034.3	1024.7	1018.7	1045.5	1067.7	1066.2	1019.7	959.4	910.4	872.9	865.8
30°	1105.7	1096.6	1090.0	1122.4	1150.7	1140.1	1089.0	1030.8	981.2	938.7	933.6
32.5°	1200.8	1191.2	1182.6	1215.0	1240.3	1226.6	1178.1	1123.4	1066.2	1024.7	1014.6
35°	1325.8	1305.6	1297.0	1335.4	1346.1	1330.9	1284.3	1236.2	1175.5	1128.0	1121.4
37.5°	1454.9	1431.1	1425.0	1458.4	1475.6	1470.0	1415.4	1365.3	1299.5	1246.9	1239.3
40°	1565.2	1543.4	1532.8	1584.9	1623.9	1627.4	1578.3	1517.1	1439.7	1385.0	1371.4
42.5°	1629.9	1611.2	1608.7	1689.7	1753.4	1799.0	1740.3	1677.0	1595.5	1533.8	1522.7
45°	1644.6	1632.5	1653.7	1760.0	1859.2	1942.2	1892.1	1825.3	1737.2	1671.9	1661.3
47.5°	1643.1	1639.1	1677.0	1796.4	1921.9	2024.1	1999.4	1924.0	1838.9	1770.6	1760.5
50°	1621.3	1621.8	1685.1	1814.7	1947.2	2046.4	2021.6	1951.8	1875.9	1808.6	1800.5
52.5°	1612.7	1609.7	1669.9	1809.1	1973.0	2036.3	1980.6	1902.2	1817.7	1734.7	1722.6
55°	1643.1	1635.5	1671.9	1804.5	1976.1	2030.7	1884.0	1713.9	1540.9	1442.7	1434.6
57.5°	1688.6	1680.6	1697.8	1771.1	1817.7	1688.6	1386.5	1112.3	934.1	858.7	825.9
60°	1508.0	1502.4	1489.3	1400.7	1201.3	906.3	617.4	393.7	282.9	228.7	228.7
62.5°	935.7	928.1	856.7	636.6	462.5	267.7	147.3	92.1	69.8	65.3	64.8
65°	262.6	261.1	216.1	152.8	97.2	60.2	53.1	54.1	53.1	51.6	51.1
67.5°	39.5	43.5	43.5	35.4	33.9	38.0	44.5	47.6	45.0	42.5	41.5
70°	25.3	27.3	26.3	22.8	24.3	28.3	31.9	32.4	30.9	28.3	27.8
72.5°	17.7	19.7	16.2	14.7	15.2	16.7	18.2	18.2	17.7	16.7	15.7
75°	10.6	10.6	7.6	7.1	7.1	7.6	7.6	8.6	8.6	8.1	7.6
77.5°	3.5	4.0	2.5	2.0	2.0	2.0	2.5	3.0	3.0	2.5	2.0
80°	0.5	1.0	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5
82.5°	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)