

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: P631599

Luminaire Tested: GWS-SA2B-722-U-SL3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631599  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-722-U-SL3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

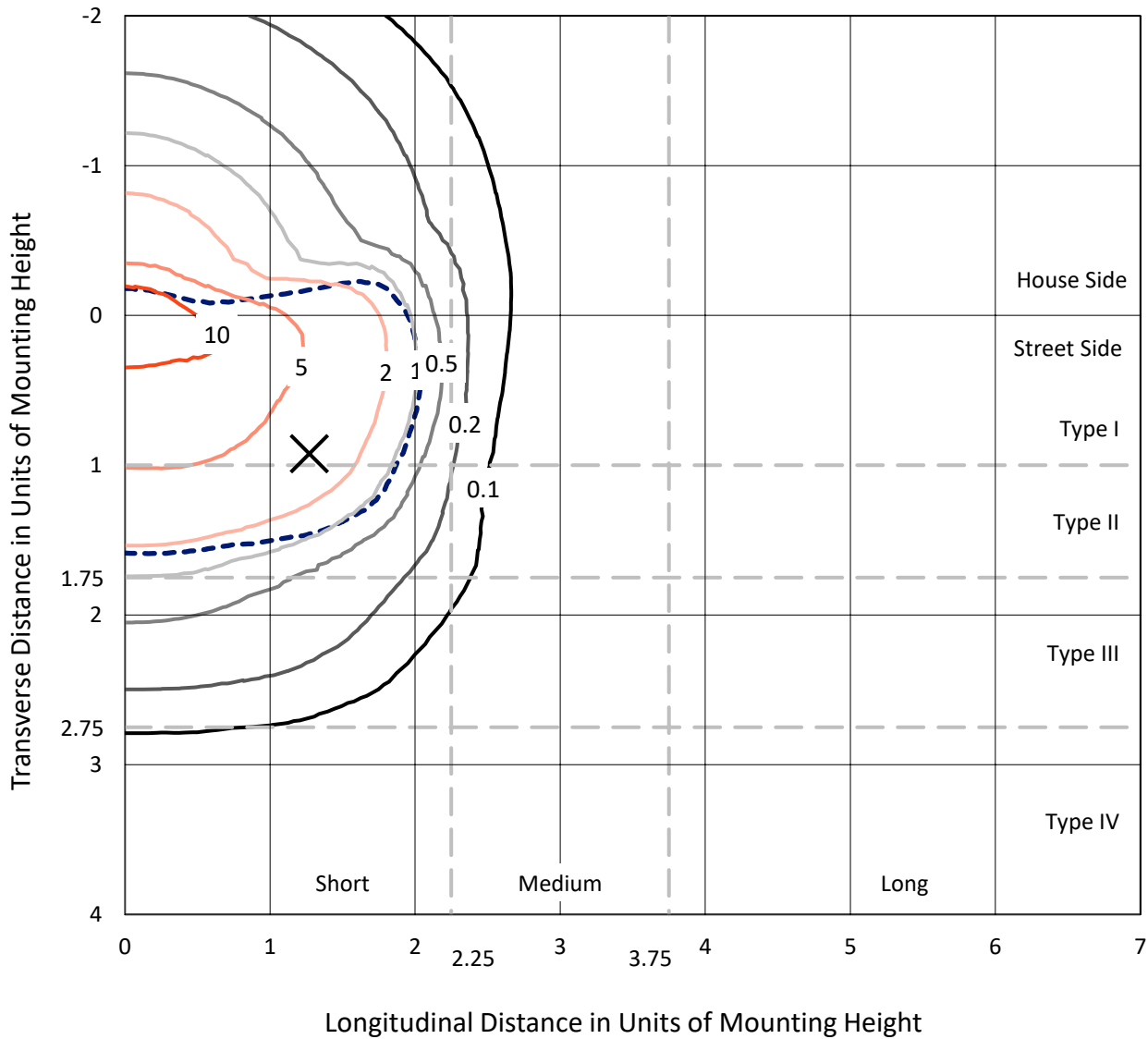
Lumens per Lamp: N/A  
Luminaire Lumens: 4257.1 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

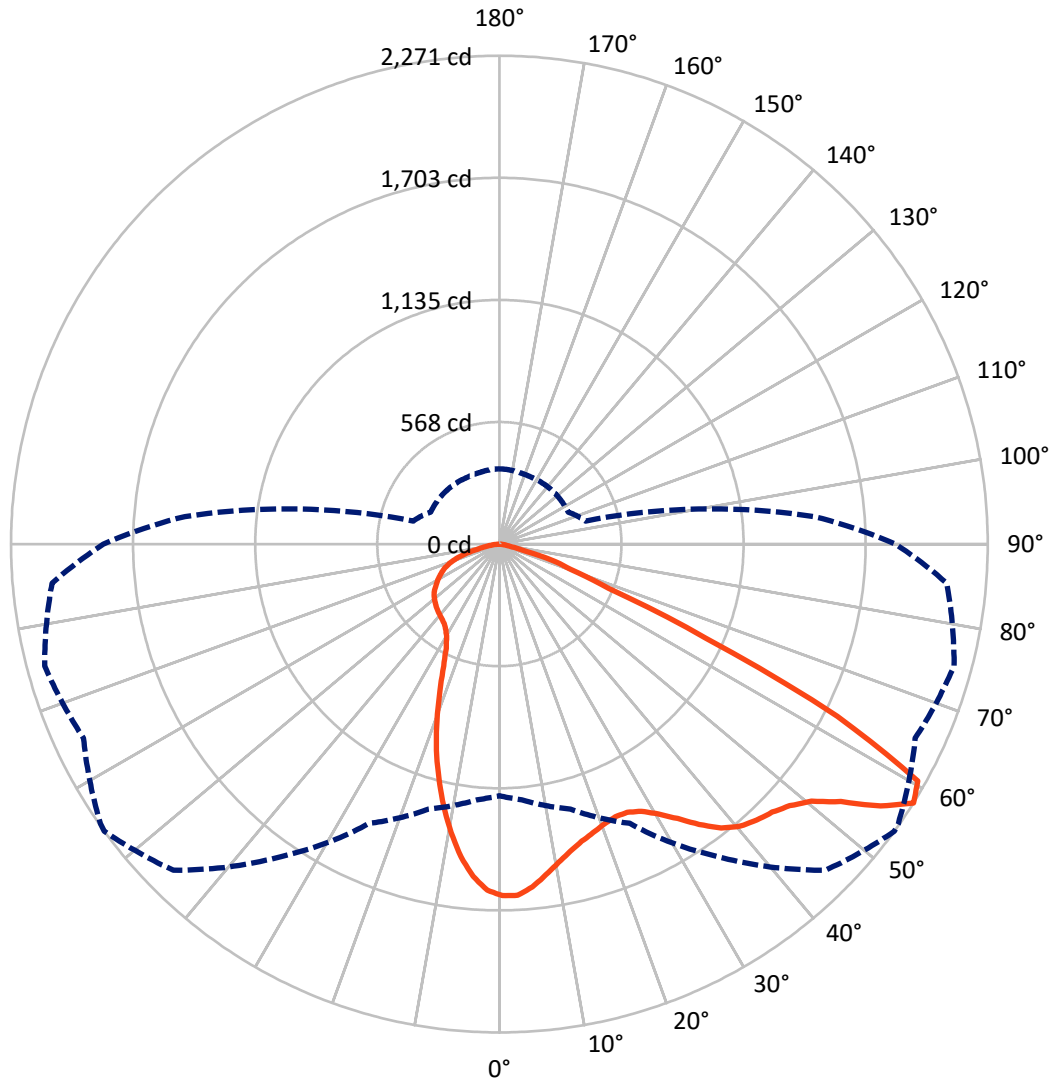
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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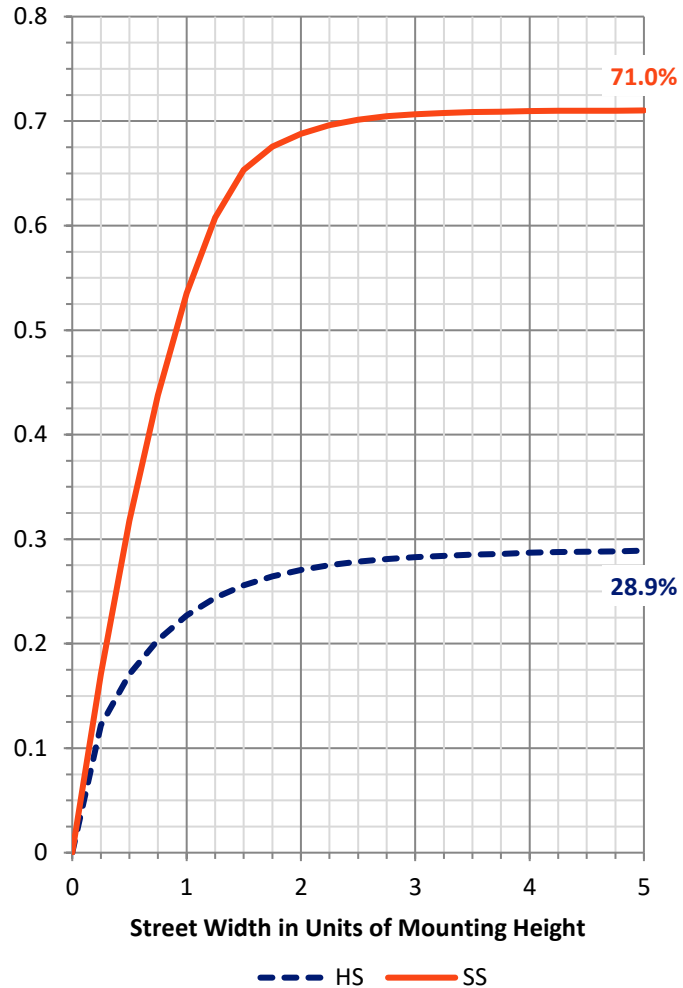
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1237.6	0.0	1237.6
	% Fixture	29.1	0.0	29.1
<b>Street Side</b>	Lumens	3019.5	0.0	3019.5
	% Fixture	70.9	0.0	70.9
<b>Total</b>	Lumens	4257.1	0.0	4257.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.7	3.4
10°-20°	342.8	8.1
20°-30°	474.4	11.1
30°-40°	659.2	15.5
40°-50°	870.5	20.4
50°-60°	1034.5	24.3
60°-70°	573.1	13.5
70°-80°	142.7	3.4
80°-90°	16.2	0.4
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°	4257.1	100.0
0°-180°	4257.1	100.0

**Coefficient of Utilization**



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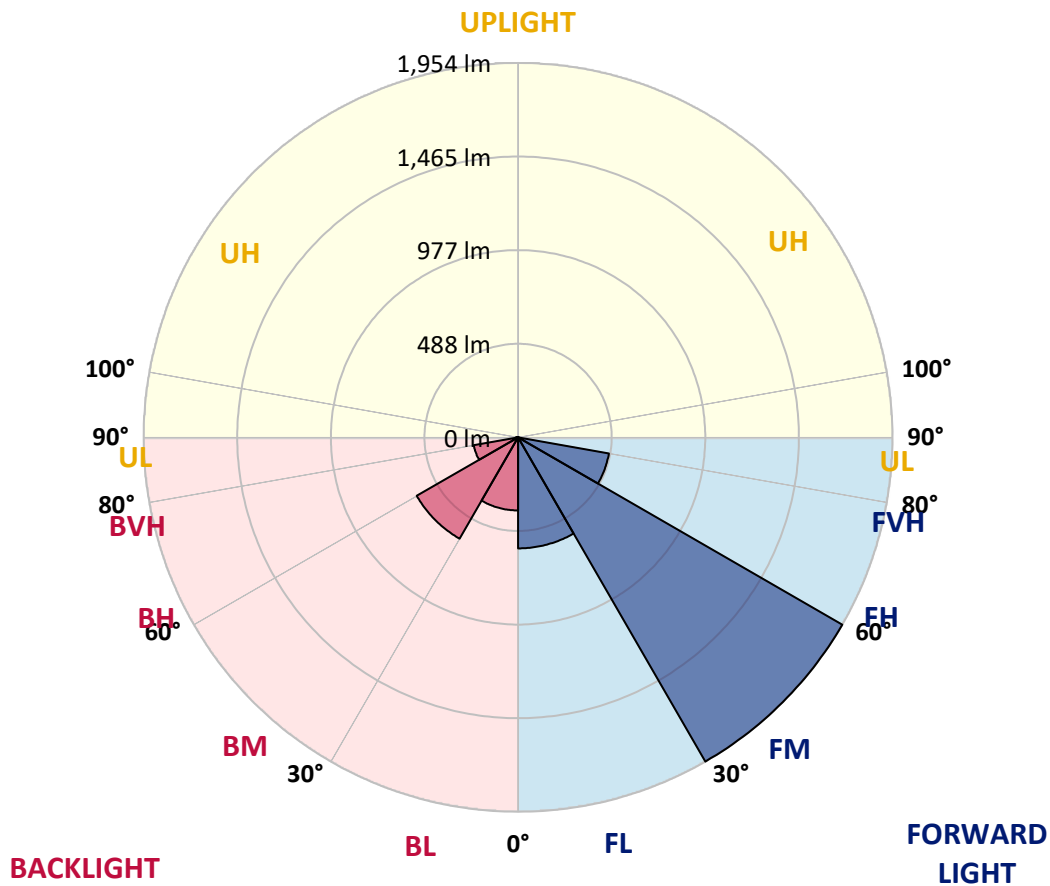
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.5	13.6			
FM (30°-60°)	1953.7	45.9			
FH (60°-80°)	481.3	11.3			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	381.4	9.0	B1/500		
BM (30°-60°)	610.5	14.3	B1/1000		
BH (60°-80°)	234.5	5.5	B1/500		G1/500
BVH (80°-90°)	11.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4
2.5°	1603.8	1607.1	1609.3	1616.9	1623.5	1629.3	1635.5	1635.5	1635.1	1634.0	1631.8
5°	1540.4	1544.0	1549.1	1559.7	1573.9	1584.1	1600.9	1602.3	1609.6	1612.5	1611.1
7.5°	1466.8	1467.9	1474.4	1488.3	1510.9	1529.1	1553.1	1556.0	1573.5	1583.7	1581.9
10°	1386.2	1382.6	1394.2	1414.7	1444.2	1474.8	1505.8	1508.3	1536.4	1555.7	1554.2
12.5°	1312.6	1313.0	1324.6	1349.4	1386.2	1424.1	1465.7	1471.5	1506.1	1530.9	1528.4
15°	1251.0	1252.5	1266.7	1294.8	1336.7	1381.9	1433.6	1439.1	1482.8	1515.6	1508.3
17.5°	1201.8	1203.3	1215.7	1247.8	1292.6	1347.2	1410.3	1415.7	1470.0	1509.0	1494.1
20°	1167.9	1167.2	1179.2	1209.9	1256.1	1315.5	1389.9	1397.9	1466.0	1511.6	1484.6
22.5°	1154.1	1153.7	1162.5	1187.6	1231.0	1291.1	1377.5	1388.4	1470.4	1522.9	1478.8
25°	1161.0	1159.6	1167.2	1185.8	1220.4	1281.6	1381.1	1392.8	1489.0	1546.2	1479.9
27.5°	1182.5	1180.7	1187.3	1204.0	1230.3	1291.5	1406.6	1420.1	1528.4	1588.8	1494.5
30°	1215.3	1214.2	1220.8	1236.8	1259.8	1324.3	1455.5	1470.8	1589.2	1655.2	1526.2
32.5°	1253.6	1251.8	1263.4	1282.0	1308.6	1384.0	1521.1	1541.1	1661.4	1740.4	1579.4
35°	1296.6	1295.1	1311.2	1338.1	1376.4	1467.1	1600.5	1622.4	1735.0	1837.0	1650.1
37.5°	1338.5	1338.5	1369.5	1409.6	1457.7	1557.5	1675.2	1689.1	1786.0	1922.6	1725.9
40°	1375.7	1377.8	1424.5	1484.6	1545.8	1639.1	1724.4	1736.1	1808.6	1981.7	1791.8
42.5°	1416.8	1418.7	1473.0	1551.7	1624.6	1705.1	1754.3	1760.1	1813.0	2011.2	1838.5
45°	1449.6	1452.2	1519.6	1603.8	1693.1	1754.7	1778.0	1783.1	1819.2	2027.2	1872.4
47.5°	1466.8	1470.4	1547.7	1645.7	1739.3	1799.1	1817.0	1819.2	1844.7	2055.3	1913.2
50°	1463.9	1471.1	1558.2	1666.5	1773.6	1843.9	1879.6	1883.3	1896.8	2096.5	1960.9
52.5°	1489.7	1493.0	1580.8	1691.2	1822.4	1926.7	1988.6	1993.7	1987.5	2127.4	1989.3
55°	1446.7	1462.4	1552.8	1687.6	1896.8	2054.6	2150.0	2147.5	2069.9	2162.1	2036.7
57.5°	1170.1	1193.1	1275.8	1432.5	1774.3	2144.2	2270.7	2264.5	2133.6	2188.7	2088.1
60°	810.1	813.7	888.4	999.6	1369.5	1894.2	2235.3	2248.8	2145.3	2155.1	1993.0
62.5°	647.9	646.8	653.8	656.7	870.9	1331.6	1764.5	1813.7	1782.3	1679.2	1412.5
65°	553.2	557.2	577.6	567.0	568.5	750.0	1054.3	1061.2	1039.3	1002.1	747.0
67.5°	432.9	439.8	475.9	517.1	504.0	482.8	547.0	543.7	428.6	331.6	274.0
70°	271.1	275.5	314.1	406.0	438.8	396.5	351.7	350.2	229.6	188.8	207.0
72.5°	158.2	158.9	169.8	226.3	291.2	271.1	258.7	249.3	147.6	150.5	165.1
75°	87.1	87.1	86.7	97.7	114.8	101.7	98.4	95.8	98.8	111.9	122.8
77.5°	18.2	18.6	19.7	25.9	33.5	40.8	51.4	51.7	64.5	74.7	83.5
80°	8.4	8.7	10.9	13.8	17.9	23.7	31.3	31.7	39.0	47.0	52.8
82.5°	4.4	4.7	5.8	7.3	9.5	12.4	17.5	17.5	23.3	27.7	31.3
85°	1.5	1.5	2.2	2.9	4.0	5.1	6.9	6.9	10.2	13.5	15.7
87.5°	0.0	0.0	0.0	0.0	0.4	0.7	1.5	1.5	1.8	2.2	3.6
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°	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4	1634.4
2.5°	1627.1	1615.8	1616.2	1618.4	1611.4	1600.9	1593.9	1585.2	1579.7	1578.6	1582.7
5°	1603.8	1590.7	1581.6	1572.1	1552.4	1529.1	1510.9	1495.9	1486.1	1482.4	1478.1
7.5°	1571.7	1554.6	1531.6	1505.0	1469.3	1427.8	1398.6	1371.3	1352.3	1346.9	1344.3
10°	1539.6	1514.9	1474.1	1424.5	1365.1	1309.0	1256.1	1215.7	1183.6	1165.4	1171.2
12.5°	1506.5	1475.9	1412.1	1335.9	1253.2	1168.7	1099.4	1032.4	980.6	954.8	947.1
15°	1477.3	1435.8	1346.9	1243.7	1133.7	1027.3	927.1	826.5	760.9	725.2	715.3
17.5°	1452.6	1398.6	1278.0	1149.7	1018.2	866.6	743.4	650.1	605.3	585.6	584.2
20°	1428.1	1362.2	1209.9	1048.4	884.8	715.0	604.9	561.2	545.2	538.2	537.9
22.5°	1406.3	1323.9	1138.1	947.1	752.2	600.9	540.4	521.5	517.1	517.1	516.4
25°	1387.7	1285.7	1064.5	839.6	632.3	535.0	506.9	498.9	500.7	504.0	504.3
27.5°	1380.0	1255.8	993.4	729.2	549.5	496.7	483.9	482.8	488.0	493.1	493.8
30°	1388.1	1235.4	920.5	623.5	500.0	473.4	467.5	469.7	475.9	481.0	481.0
32.5°	1412.8	1225.2	846.2	546.3	471.2	457.0	455.2	457.3	462.1	465.0	465.4
35°	1454.7	1229.2	769.3	494.1	452.6	444.9	444.6	446.0	447.9	449.7	450.1
37.5°	1507.6	1247.0	686.9	463.9	440.6	436.2	435.5	435.1	435.5	435.5	435.8
40°	1559.3	1274.0	613.3	446.0	432.2	428.6	426.7	424.2	423.8	423.1	422.7
42.5°	1597.6	1294.8	554.6	433.3	424.5	420.2	418.0	414.0	413.6	413.2	412.9
45°	1626.4	1312.3	505.8	420.9	416.5	412.5	407.8	404.1	404.9	405.6	405.6
47.5°	1658.8	1327.6	470.1	409.2	406.7	402.7	396.8	394.3	396.8	399.4	399.4
50°	1698.2	1349.1	440.9	397.6	396.5	391.7	386.6	385.6	388.5	392.1	392.1
52.5°	1727.0	1367.6	420.2	385.9	385.9	379.7	375.3	375.0	378.3	381.9	382.3
55°	1780.9	1411.0	412.9	372.4	371.0	366.2	363.0	360.4	364.4	367.7	367.7
57.5°	1841.7	1468.6	414.7	353.1	351.3	349.8	347.3	344.4	345.5	349.1	349.5
60°	1712.7	1357.1	394.7	333.8	332.7	332.0	328.7	323.6	325.1	328.0	328.3
62.5°	1196.4	901.9	319.2	309.8	313.4	313.0	308.7	302.8	303.2	307.2	307.2
65°	621.0	488.0	280.2	287.9	293.4	291.2	283.9	278.8	278.0	283.1	282.1
67.5°	267.8	266.4	255.1	264.9	270.8	266.0	258.4	250.0	250.7	252.5	251.1
70°	215.7	222.3	227.0	237.6	242.3	233.6	225.2	220.5	216.5	216.1	213.5
72.5°	172.4	181.5	192.0	203.0	204.4	195.7	185.1	180.7	174.6	174.2	171.6
75°	129.7	137.4	145.8	154.5	154.5	146.1	139.2	137.0	129.7	127.5	125.4
77.5°	88.6	93.3	99.8	102.0	104.2	100.9	94.0	90.4	82.0	79.8	76.9
80°	55.8	59.0	63.0	64.5	66.7	62.7	57.2	53.2	47.4	45.6	44.1
82.5°	33.5	35.7	38.3	39.0	40.8	37.9	32.8	29.9	26.6	25.1	24.1
85°	17.1	18.2	19.7	20.0	19.7	16.8	14.9	13.5	11.3	10.9	10.2
87.5°	4.4	5.1	5.5	5.1	4.7	3.6	2.6	1.8	0.7	0.7	0.4
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)