

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: P630220

Luminaire Tested: GWS-SA1D-730-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-730-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

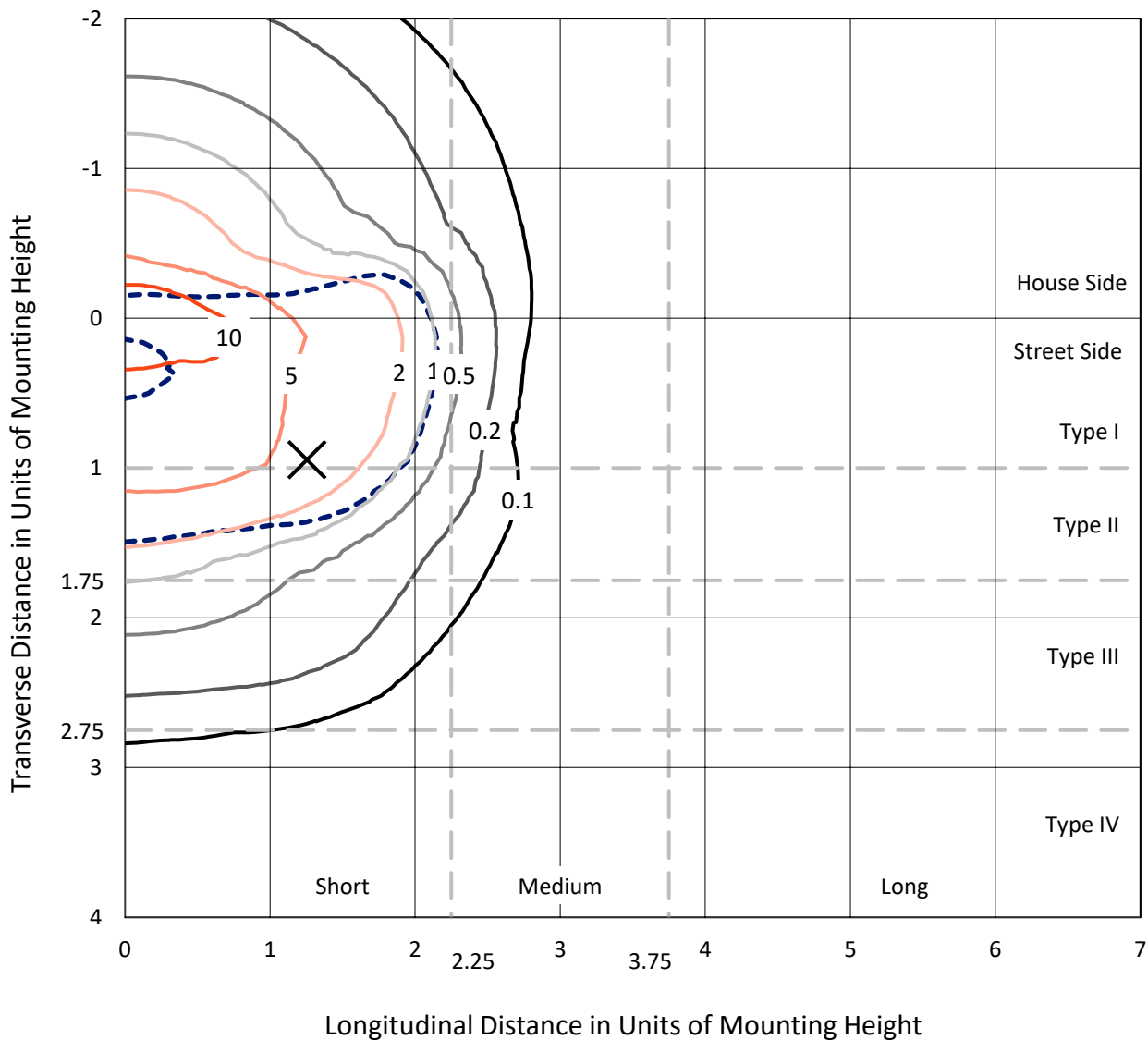
Lumens per Lamp: N/A  
Luminaire Lumens: 4703 lumens  
Efficiency: N/A  
Efficacy: 106.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

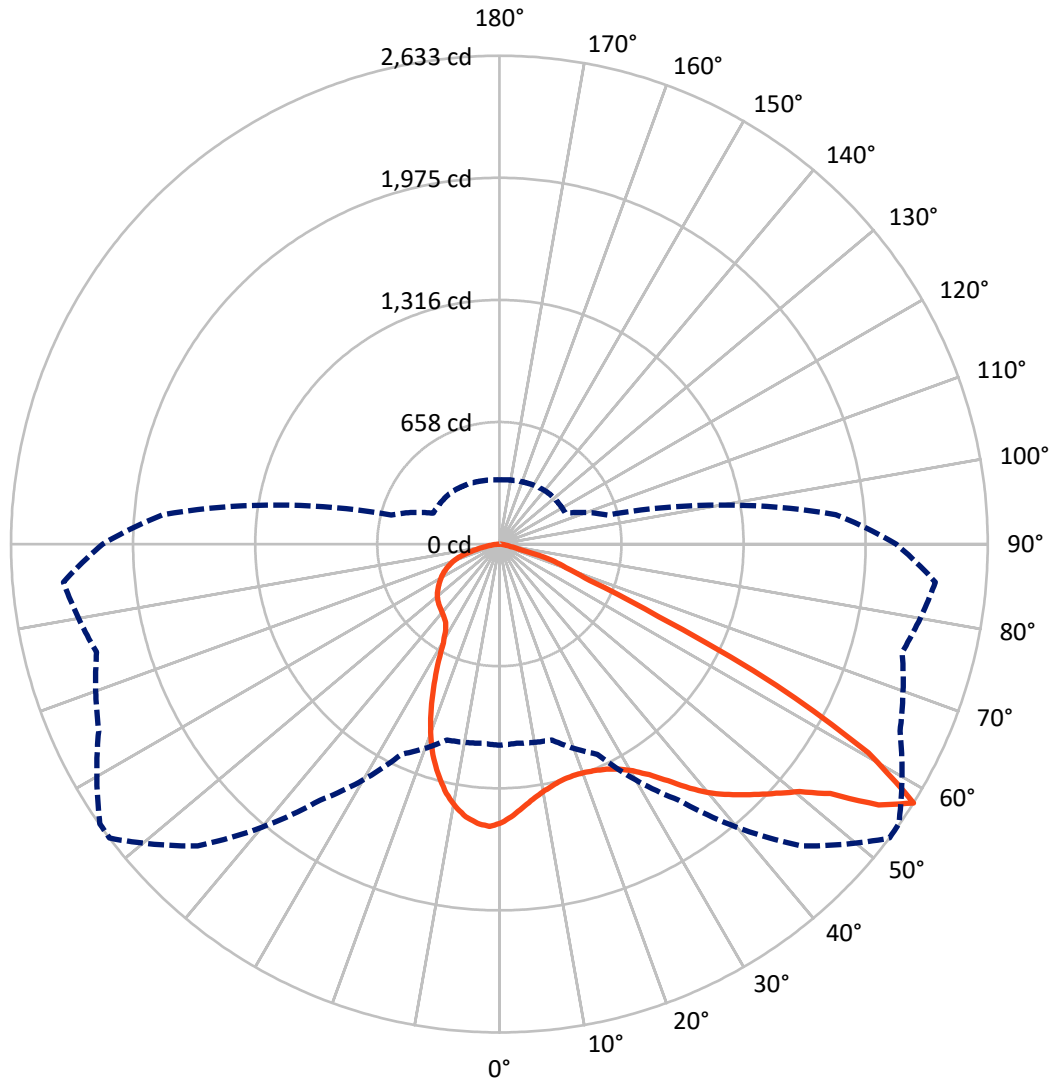
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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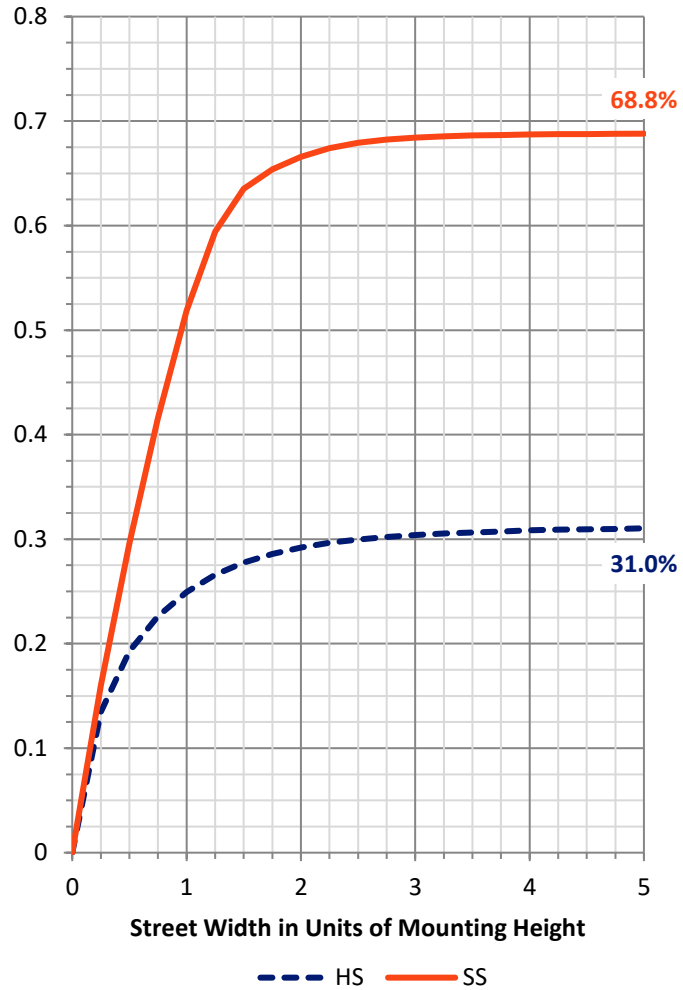
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1470.5	0.0	1470.5
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	3232.6	0.0	3232.6
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	4703.0	0.0	4703.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.8	2.9
10°-20°	356.3	7.6
20°-30°	525.0	11.2
30°-40°	734.8	15.6
40°-50°	965.9	20.5
50°-60°	1132.6	24.1
60°-70°	667.2	14.2
70°-80°	166.0	3.5
80°-90°	19.5	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°	4703.0	100.0
0°-180°	4703.0	100.0

**Coefficient of Utilization**



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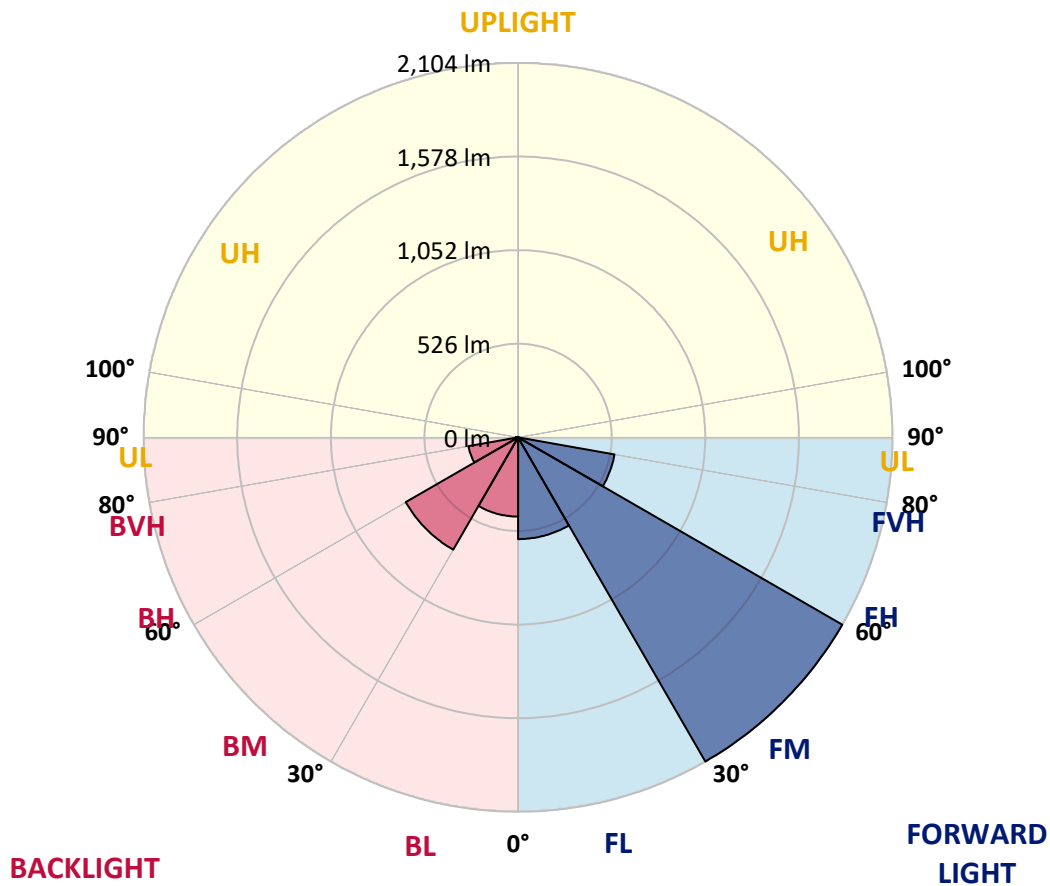
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.8	12.2			
FM (30°-60°)	2104.2	44.7			
FH (60°-80°)	550.1	11.7			G0/660
FVH (80°-90°)	6.5	0.1			G0/10
BL (0°-30°)	445.3	9.5	B1/500		
BM (30°-60°)	729.1	15.5	B1/1000		
BH (60°-80°)	283.1	6.0	B1/500		G1/500
BVH (80°-90°)	13.0	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°	53°	55°	65°	75°	85°
0°	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8
2.5°	1415.5	1419.5	1420.3	1432.5	1433.3	1451.1	1463.0	1460.6	1472.9	1487.9	1499.8
5°	1347.8	1348.2	1352.2	1366.8	1374.7	1398.1	1417.9	1417.9	1441.6	1472.5	1499.0
7.5°	1292.0	1291.6	1295.2	1311.4	1324.5	1352.6	1379.5	1382.6	1415.9	1461.0	1504.2
10°	1240.1	1242.9	1246.9	1266.7	1283.3	1318.1	1350.2	1355.3	1397.3	1453.1	1511.3
12.5°	1206.9	1207.3	1213.2	1235.4	1256.8	1294.0	1327.6	1334.0	1382.3	1445.6	1516.4
15°	1185.5	1185.9	1192.3	1216.8	1241.7	1279.3	1313.8	1320.9	1373.5	1444.4	1526.3
17.5°	1176.0	1175.6	1181.6	1206.1	1233.4	1272.6	1309.4	1318.1	1377.5	1453.5	1543.8
20°	1176.0	1176.4	1179.6	1201.8	1229.5	1271.0	1313.8	1324.5	1392.9	1474.1	1570.7
22.5°	1192.6	1194.2	1195.8	1210.9	1232.6	1273.4	1325.3	1339.5	1426.2	1508.5	1605.9
25°	1225.1	1225.5	1227.1	1239.4	1249.3	1280.1	1344.3	1365.6	1478.0	1558.8	1650.2
27.5°	1268.6	1274.2	1275.8	1283.7	1283.7	1296.8	1373.9	1404.8	1548.1	1631.2	1706.8
30°	1329.6	1331.6	1334.4	1343.1	1333.6	1328.0	1417.5	1457.1	1629.3	1718.7	1774.9
32.5°	1383.0	1387.4	1402.4	1416.7	1399.7	1382.3	1481.6	1528.3	1707.2	1809.8	1847.4
35°	1428.6	1439.3	1468.1	1499.8	1487.9	1470.5	1566.7	1615.4	1771.4	1875.1	1911.5
37.5°	1483.6	1491.9	1531.5	1582.9	1593.6	1585.3	1670.4	1705.3	1814.1	1891.7	1946.3
40°	1539.4	1552.1	1603.1	1674.4	1715.1	1721.1	1766.2	1789.6	1828.8	1859.2	1939.6
42.5°	1596.4	1618.2	1688.2	1771.4	1843.8	1857.3	1847.0	1856.9	1824.0	1814.5	1908.3
45°	1666.1	1691.8	1771.0	1877.0	1972.4	1993.4	1926.1	1917.0	1823.2	1797.5	1888.9
47.5°	1748.4	1774.1	1849.7	1973.2	2095.2	2110.6	2007.3	1990.7	1850.9	1823.6	1915.0
50°	1821.2	1839.0	1906.7	2044.9	2209.5	2218.7	2096.7	2076.5	1919.8	1896.0	1996.6
52.5°	1747.2	1745.2	1816.5	1986.7	2268.9	2378.6	2234.5	2215.1	2052.8	2016.4	2122.9
55°	1482.4	1459.8	1523.6	1691.0	2103.1	2520.7	2481.5	2442.7	2230.1	2137.5	2241.2
57.5°	1083.8	1077.5	1092.9	1250.0	1684.7	2300.6	2632.7	2629.1	2383.3	2248.3	2359.2
60°	847.5	838.0	796.8	801.2	1148.3	1797.1	2284.8	2389.7	2478.3	2314.8	2441.5
62.5°	752.5	745.4	724.0	665.0	684.0	1204.9	1674.8	1771.0	2165.6	2044.5	2097.1
65°	623.0	621.1	638.9	636.5	573.2	665.4	945.3	1042.2	1361.7	1378.7	1361.7
67.5°	452.8	449.3	494.4	583.5	551.8	502.3	526.9	560.5	698.3	627.0	564.5
70°	294.5	289.4	315.5	421.6	494.0	437.8	379.6	374.1	384.0	238.7	258.1
72.5°	197.5	191.6	191.2	232.0	298.5	294.9	294.1	291.3	260.1	188.4	209.0
75°	110.0	105.3	104.1	100.1	106.9	108.9	116.0	119.9	129.8	142.9	158.3
77.5°	18.6	18.2	23.0	29.3	40.4	51.9	64.1	67.7	83.5	99.0	108.9
80°	10.3	10.7	13.9	17.0	22.6	30.9	39.6	42.0	51.5	59.8	67.7
82.5°	5.5	5.5	7.1	9.1	12.3	16.2	21.4	23.4	29.7	34.8	40.4
85°	2.0	2.0	2.8	3.6	5.1	6.7	8.3	9.5	13.1	17.8	20.2
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	1.6	1.6	2.0	3.6	5.1
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°	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8	1501.8
2.5°	1509.7	1499.0	1513.7	1520.4	1522.8	1524.4	1514.1	1506.9	1504.6	1497.0	1492.7
5°	1515.3	1508.1	1522.0	1522.0	1512.1	1501.8	1480.8	1466.2	1455.9	1443.6	1441.6
7.5°	1524.8	1519.6	1527.1	1511.7	1486.8	1459.0	1422.6	1394.1	1371.2	1356.1	1356.5
10°	1537.4	1531.1	1525.1	1490.7	1445.2	1394.1	1338.3	1296.8	1258.8	1241.3	1231.8
12.5°	1545.7	1536.6	1511.7	1454.7	1387.8	1319.3	1240.5	1178.8	1123.8	1098.8	1096.9
15°	1556.0	1539.4	1489.5	1408.0	1315.0	1221.5	1120.2	1034.3	959.9	921.1	919.1
17.5°	1569.5	1542.2	1463.0	1354.5	1238.2	1100.4	973.0	864.9	785.7	755.6	760.8
20°	1588.5	1545.3	1432.9	1295.2	1142.8	962.7	803.9	704.6	674.1	672.1	668.2
22.5°	1609.9	1547.3	1399.7	1228.7	1027.2	815.8	664.2	621.9	621.5	631.4	633.7
25°	1634.0	1548.9	1362.1	1151.1	902.1	669.4	587.4	574.8	584.6	603.3	605.6
27.5°	1664.9	1552.1	1316.5	1066.0	769.1	578.3	545.1	541.9	553.8	571.2	570.4
30°	1710.4	1563.5	1268.3	968.2	632.5	535.2	519.3	519.7	524.5	532.8	534.0
32.5°	1756.7	1581.4	1221.1	858.2	554.2	510.6	503.5	502.7	502.7	506.3	507.1
35°	1800.6	1601.5	1170.1	743.4	516.2	496.4	491.6	489.3	488.1	487.3	486.1
37.5°	1825.2	1611.4	1120.2	630.2	496.0	486.9	482.1	479.0	474.6	471.4	470.6
40°	1814.5	1600.0	1062.4	545.5	483.7	477.8	472.2	467.9	461.9	459.2	457.6
42.5°	1778.9	1564.3	999.5	505.5	473.8	467.9	461.1	454.0	450.1	447.7	447.3
45°	1741.3	1521.2	923.5	482.1	464.3	457.2	449.3	441.4	437.0	435.8	435.4
47.5°	1740.1	1499.8	842.7	463.5	452.8	445.7	435.8	427.9	423.1	421.6	420.0
50°	1792.3	1521.6	751.7	447.3	441.0	433.4	422.4	413.6	407.7	405.7	405.3
52.5°	1900.8	1603.5	670.1	431.1	425.1	416.4	407.3	398.6	391.5	387.9	387.5
55°	2018.0	1707.6	619.5	414.4	406.5	399.0	390.7	381.2	373.3	367.7	366.9
57.5°	2139.1	1821.2	604.0	393.5	387.5	382.4	372.5	362.2	353.1	347.9	346.8
60°	2238.8	1919.0	632.9	371.3	368.1	361.4	352.3	342.4	336.1	332.1	331.3
62.5°	1874.3	1562.4	511.0	347.1	347.1	340.0	329.7	322.6	318.3	315.5	314.7
65°	1189.5	967.4	348.7	323.0	322.6	313.1	304.4	299.6	297.7	293.3	292.5
67.5°	518.1	442.1	298.1	298.5	296.9	286.6	277.9	274.3	270.4	265.6	265.2
70°	268.8	273.9	266.8	271.1	268.4	256.1	247.8	242.3	233.9	229.2	229.6
72.5°	216.9	222.5	230.4	237.1	231.2	221.3	208.2	201.5	190.8	185.6	186.0
75°	165.5	171.4	178.9	186.0	181.3	169.0	160.7	154.0	141.7	135.8	137.0
77.5°	114.0	117.2	126.3	125.9	124.3	120.7	108.5	100.5	87.9	80.8	81.5
80°	70.9	72.8	77.2	79.2	78.4	73.6	63.7	57.8	50.3	45.9	46.3
82.5°	42.8	43.9	47.9	48.3	47.9	44.3	36.8	32.5	27.7	25.3	25.3
85°	21.8	22.6	24.9	24.9	22.6	19.0	17.0	15.0	12.3	11.1	11.1
87.5°	5.9	5.9	7.5	6.3	5.1	4.8	2.4	2.0	0.8	0.4	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)