

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: P632039

Luminaire Tested: GWS-SA2B-830-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632039
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4591.1 lumens
Efficiency: N/A
Efficacy: 98.9 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

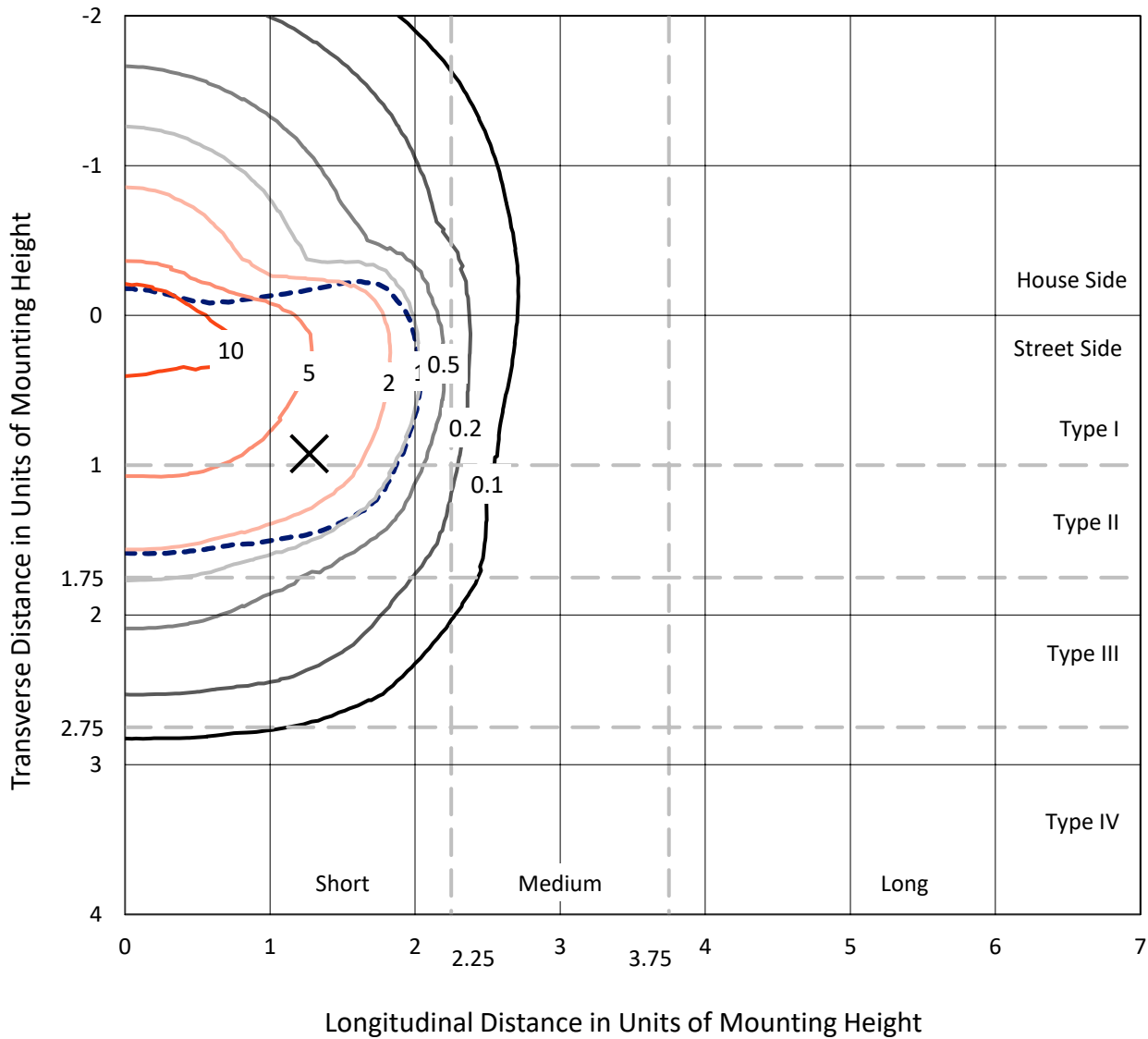


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Iso-Footcandle Lines of Horizontal Illumination

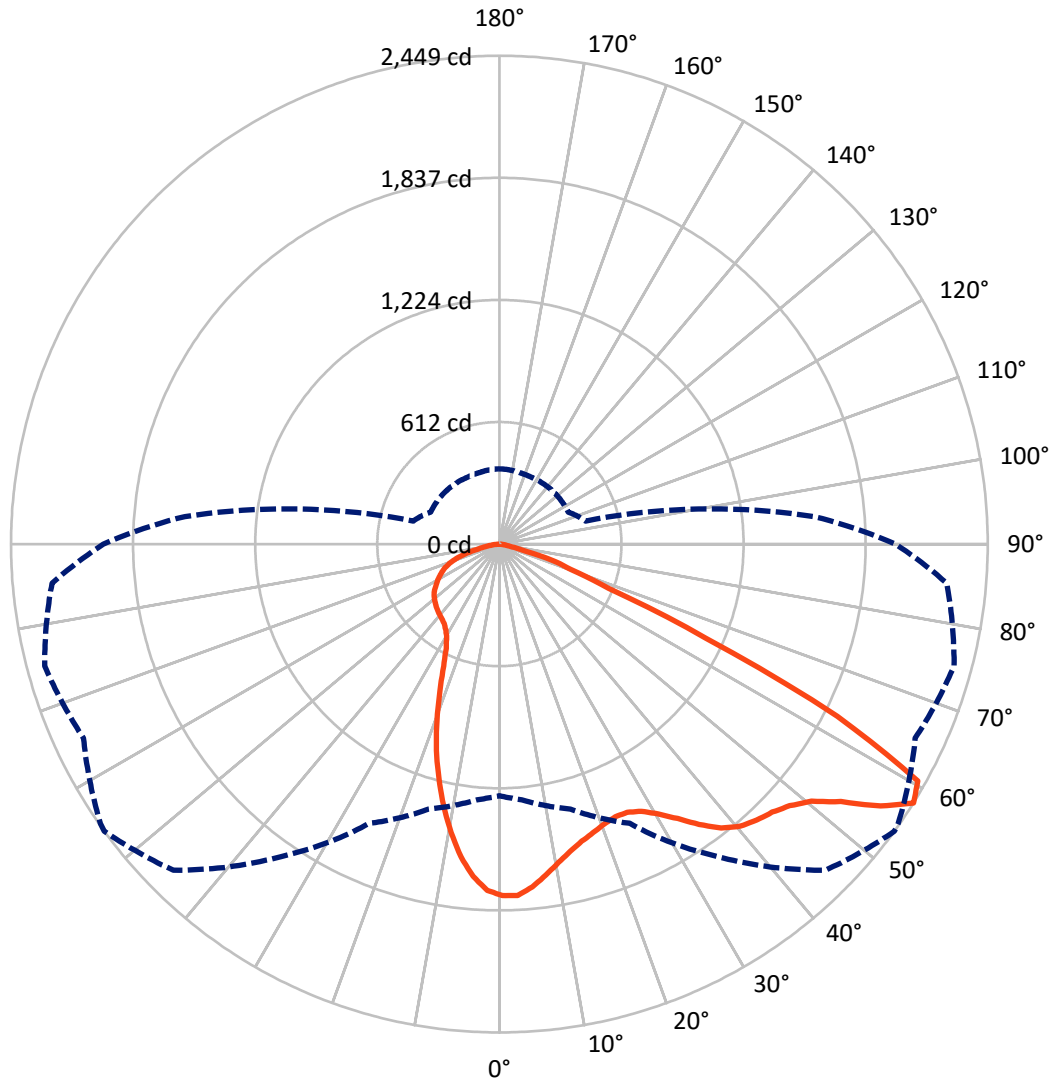
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 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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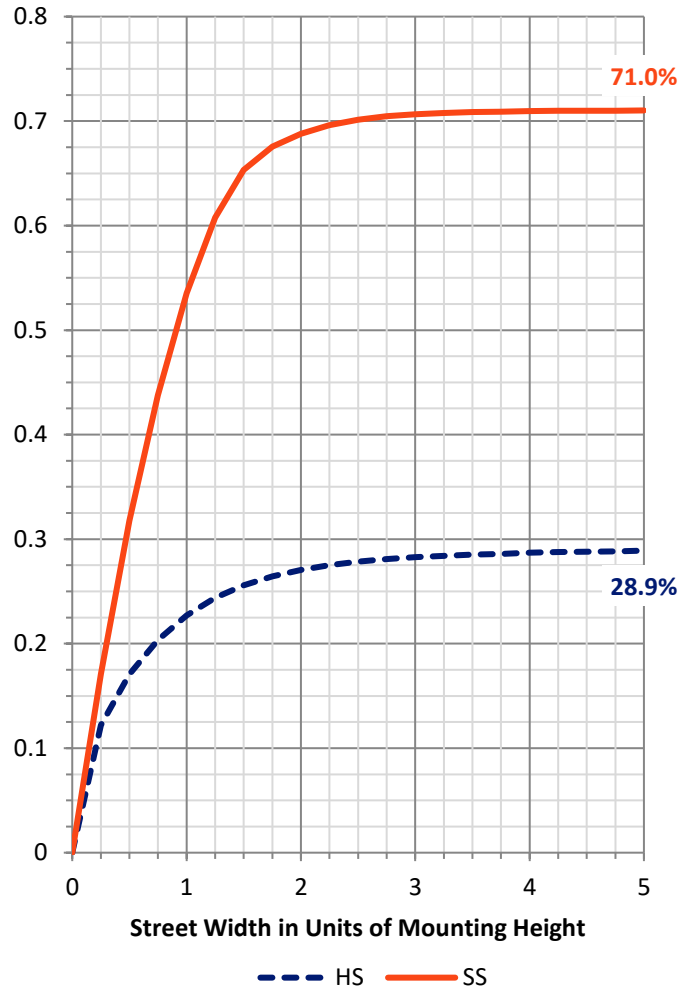
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1334.7	0.0	1334.7
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	3256.4	0.0	3256.4
	% Fixture	70.9	0.0	70.9
Total	Lumens	4591.1	0.0	4591.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.9	3.4
10°-20°	369.7	8.1
20°-30°	511.6	11.1
30°-40°	710.9	15.5
40°-50°	938.8	20.4
50°-60°	1115.7	24.3
60°-70°	618.1	13.5
70°-80°	153.9	3.4
80°-90°	17.5	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°	4591.1	100.0
0°-180°	4591.1	100.0

Coefficient of Utilization



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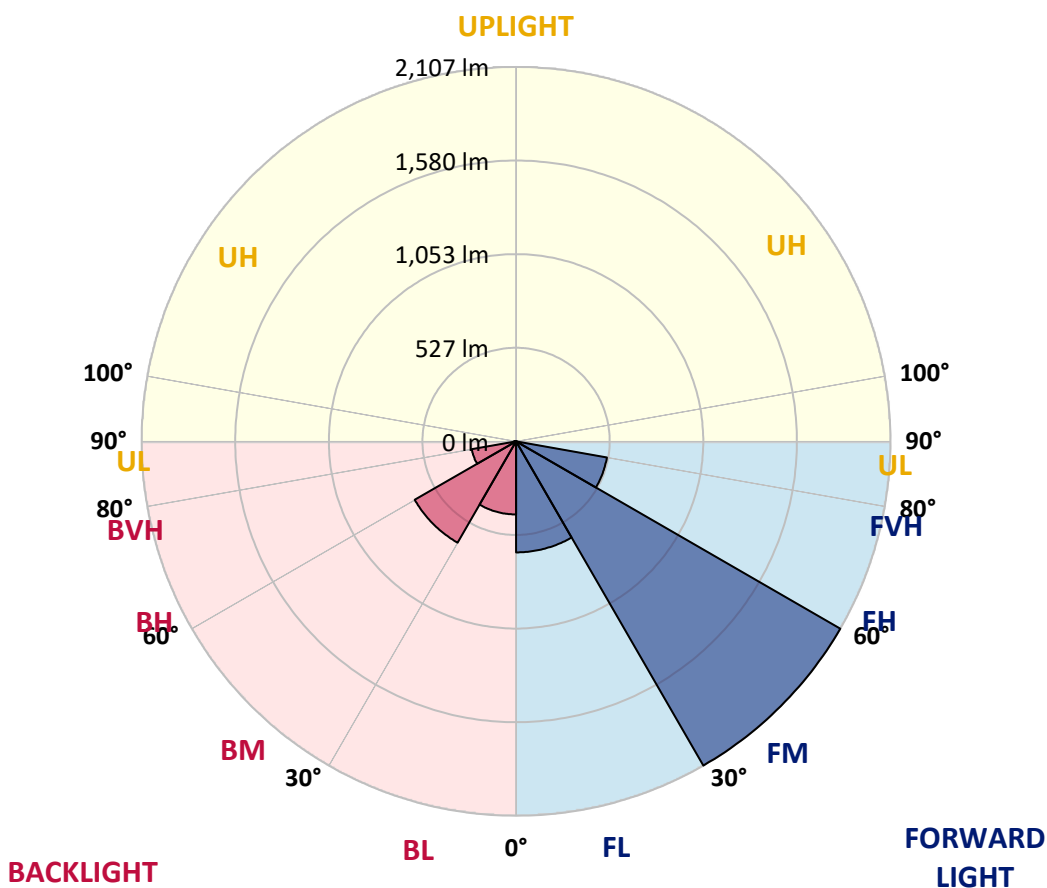
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.9	13.6			
FM (30°-60°)	2106.9	45.9			
FH (60°-80°)	519.1	11.3			G0/660
FVH (80°-90°)	5.5	0.1			G0/10
BL (0°-30°)	411.3	9.0	B1/500		
BM (30°-60°)	658.4	14.3	B1/1000		
BH (60°-80°)	252.9	5.5	B1/500		G1/500
BVH (80°-90°)	12.0	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°	54°	55°	65°	75°	85°
0°	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6
2.5°	1729.6	1733.2	1735.5	1743.8	1750.8	1757.1	1763.8	1763.8	1763.4	1762.2	1759.9
5°	1661.2	1665.2	1670.7	1682.1	1697.4	1708.4	1726.5	1728.0	1735.9	1739.0	1737.5
7.5°	1581.8	1583.0	1590.1	1605.0	1629.4	1649.0	1675.0	1678.1	1697.0	1708.0	1706.0
10°	1495.0	1491.1	1503.6	1525.6	1557.5	1590.5	1623.9	1626.6	1656.9	1677.7	1676.2
12.5°	1415.6	1416.0	1428.6	1455.3	1495.0	1535.9	1580.7	1587.0	1624.3	1651.0	1648.3
15°	1349.2	1350.8	1366.1	1396.3	1441.5	1490.3	1546.1	1552.0	1599.1	1634.5	1626.6
17.5°	1296.1	1297.7	1311.1	1345.6	1394.0	1452.9	1520.9	1526.8	1585.4	1627.4	1611.3
20°	1259.6	1258.8	1271.8	1304.8	1354.7	1418.7	1498.9	1507.6	1581.1	1630.2	1601.1
22.5°	1244.6	1244.3	1253.7	1280.8	1327.6	1392.4	1485.6	1497.3	1585.8	1642.4	1594.8
25°	1252.1	1250.5	1258.8	1278.8	1316.2	1382.2	1489.5	1502.1	1605.8	1667.5	1596.0
27.5°	1275.3	1273.3	1280.4	1298.5	1326.8	1392.8	1517.0	1531.5	1648.3	1713.5	1611.7
30°	1310.7	1309.5	1316.6	1333.9	1358.6	1428.2	1569.7	1586.2	1713.9	1785.0	1645.9
32.5°	1351.9	1350.0	1362.5	1382.6	1411.3	1492.6	1640.4	1662.0	1791.7	1877.0	1703.3
35°	1398.3	1396.7	1414.0	1443.1	1484.4	1582.2	1726.1	1749.7	1871.1	1981.1	1779.5
37.5°	1443.5	1443.5	1476.9	1520.1	1572.0	1679.7	1806.6	1821.6	1926.1	2073.5	1861.3
40°	1483.6	1486.0	1536.3	1601.1	1667.1	1767.7	1859.7	1872.3	1950.5	2137.2	1932.4
42.5°	1528.0	1530.0	1588.5	1673.4	1752.0	1838.9	1891.9	1898.2	1955.2	2169.0	1982.7
45°	1563.4	1566.1	1638.8	1729.6	1825.9	1892.3	1917.5	1923.0	1961.9	2186.3	2019.3
47.5°	1581.8	1585.8	1669.1	1774.8	1875.8	1940.3	1959.5	1961.9	1989.4	2216.5	2063.3
50°	1578.7	1586.6	1680.5	1797.2	1912.8	1988.6	2027.1	2031.0	2045.6	2261.0	2114.8
52.5°	1606.6	1610.1	1704.9	1823.9	1965.4	2077.8	2144.6	2150.1	2143.4	2294.4	2145.4
55°	1560.2	1577.1	1674.6	1820.0	2045.6	2215.8	2318.7	2316.0	2232.3	2331.7	2196.5
57.5°	1261.9	1286.7	1375.9	1544.9	1913.5	2312.4	2448.8	2442.1	2301.0	2360.4	2251.9
60°	873.7	877.6	958.1	1078.0	1476.9	2042.8	2410.7	2425.2	2313.6	2324.2	2149.3
62.5°	698.8	697.6	705.1	708.2	939.3	1436.0	1902.9	1956.0	1922.2	1811.0	1523.3
65°	596.6	600.9	622.9	611.5	613.1	808.8	1137.0	1144.4	1120.9	1080.8	805.7
67.5°	466.9	474.4	513.3	557.7	543.5	520.7	589.9	586.4	462.2	357.6	295.5
70°	292.4	297.1	338.8	437.8	473.2	427.6	379.2	377.7	247.6	203.6	223.2
72.5°	170.6	171.4	183.1	244.1	314.0	292.4	279.0	268.8	159.2	162.3	178.0
75°	93.9	93.9	93.5	105.3	123.8	109.6	106.1	103.4	106.5	120.7	132.4
77.5°	19.7	20.0	21.2	27.9	36.2	44.0	55.4	55.8	69.6	80.6	90.0
80°	9.0	9.4	11.8	14.9	19.3	25.5	33.8	34.2	42.1	50.7	57.0
82.5°	4.7	5.1	6.3	7.9	10.2	13.4	18.9	18.9	25.2	29.9	33.8
85°	1.6	1.6	2.4	3.1	4.3	5.5	7.5	7.5	11.0	14.5	16.9
87.5°	0.0	0.0	0.0	0.0	0.4	0.8	1.6	1.6	2.0	2.4	3.9
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°	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6	1762.6
2.5°	1754.8	1742.6	1743.0	1745.3	1737.9	1726.5	1719.0	1709.6	1703.7	1702.5	1706.8
5°	1729.6	1715.5	1705.6	1695.4	1674.2	1649.0	1629.4	1613.3	1602.7	1598.7	1594.0
7.5°	1695.0	1676.6	1651.8	1623.1	1584.6	1539.8	1508.4	1478.9	1458.4	1452.5	1449.8
10°	1660.4	1633.7	1589.7	1536.3	1472.2	1411.7	1354.7	1311.1	1276.5	1256.8	1263.1
12.5°	1624.7	1591.7	1522.9	1440.8	1351.5	1260.4	1185.7	1113.4	1057.6	1029.7	1021.4
15°	1593.2	1548.4	1452.5	1341.3	1222.6	1107.9	999.8	891.3	820.6	782.1	771.5
17.5°	1566.5	1508.4	1378.3	1239.9	1098.1	934.6	801.7	701.1	652.8	631.6	630.0
20°	1540.2	1469.1	1304.8	1130.7	954.2	771.1	652.4	605.2	587.9	580.5	580.1
22.5°	1516.6	1427.8	1227.4	1021.4	811.2	648.1	582.8	562.4	557.7	557.7	556.9
25°	1496.6	1386.5	1148.0	905.5	681.9	576.9	546.7	538.0	540.0	543.5	543.9
27.5°	1488.3	1354.3	1071.3	786.4	592.7	535.7	521.9	520.7	526.2	531.7	532.5
30°	1497.0	1332.3	992.7	672.4	539.2	510.5	504.2	506.6	513.3	518.8	518.8
32.5°	1523.7	1321.3	912.6	589.1	508.2	492.8	490.9	493.2	498.3	501.5	501.9
35°	1568.9	1325.6	829.6	532.9	488.1	479.9	479.5	481.0	483.0	485.0	485.4
37.5°	1625.9	1344.9	740.8	500.3	475.1	470.4	469.6	469.2	469.6	469.6	470.0
40°	1681.7	1373.9	661.4	481.0	466.1	462.2	460.2	457.5	457.1	456.3	455.9
42.5°	1722.9	1396.3	598.2	467.3	457.9	453.1	450.8	446.5	446.1	445.7	445.3
45°	1754.0	1415.2	545.5	453.9	449.2	444.9	439.8	435.8	436.6	437.4	437.4
47.5°	1789.0	1431.7	507.0	441.3	438.6	434.3	428.0	425.2	428.0	430.7	430.7
50°	1831.4	1454.9	475.5	428.8	427.6	422.5	417.0	415.8	418.9	422.9	422.9
52.5°	1862.5	1474.9	453.1	416.2	416.2	409.5	404.8	404.4	407.9	411.9	412.3
55°	1920.6	1521.7	445.3	401.7	400.1	395.0	391.4	388.7	393.0	396.5	396.5
57.5°	1986.2	1583.8	447.2	380.8	378.9	377.3	374.5	371.4	372.6	376.5	376.9
60°	1847.1	1463.6	425.6	360.0	358.8	358.0	354.5	349.0	350.6	353.7	354.1
62.5°	1290.2	972.7	344.3	334.1	338.0	337.6	332.9	326.6	327.0	331.3	331.3
65°	669.7	526.2	302.2	310.5	316.4	314.0	306.2	300.6	299.9	305.4	304.2
67.5°	288.9	287.3	275.1	285.7	292.0	286.9	278.6	269.6	270.4	272.4	270.8
70°	232.7	239.7	244.8	256.2	261.3	251.9	242.9	237.8	233.4	233.1	230.3
72.5°	185.9	195.7	207.1	218.9	220.5	211.0	199.6	194.9	188.2	187.9	185.1
75°	139.9	148.2	157.2	166.6	166.6	157.6	150.1	147.8	139.9	137.6	135.2
77.5°	95.5	100.6	107.7	110.0	112.4	108.9	101.4	97.5	88.4	86.1	82.9
80°	60.1	63.7	68.0	69.6	71.9	67.6	61.7	57.4	51.1	49.1	47.6
82.5°	36.2	38.5	41.3	42.1	44.0	40.9	35.4	32.2	28.7	27.1	25.9
85°	18.5	19.7	21.2	21.6	21.2	18.1	16.1	14.5	12.2	11.8	11.0
87.5°	4.7	5.5	5.9	5.5	5.1	3.9	2.8	2.0	0.8	0.8	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)