

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: P631846

Luminaire Tested: GWS-SA2B-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

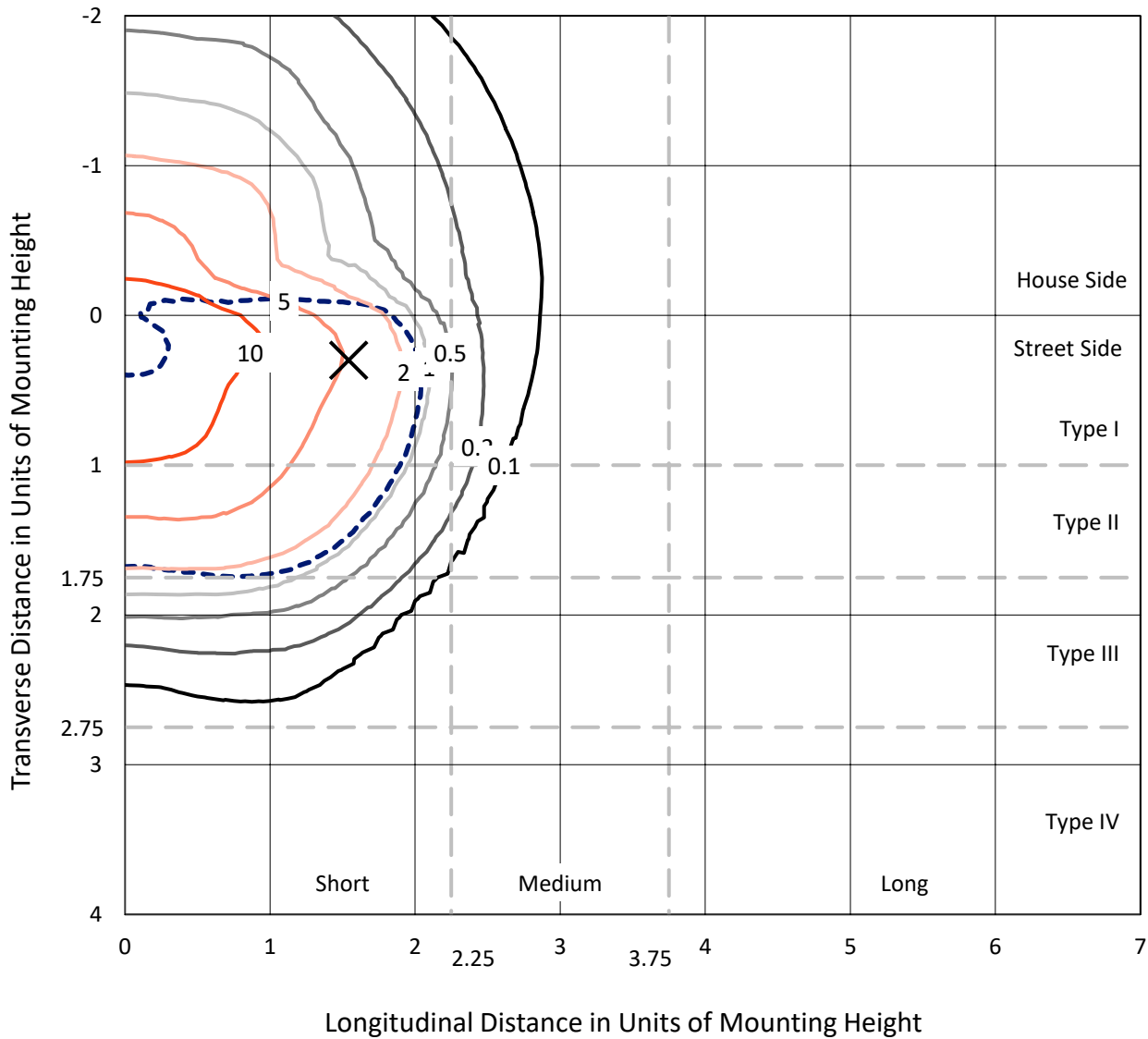
Lumens per Lamp: N/A  
Luminaire Lumens: 6050.5 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

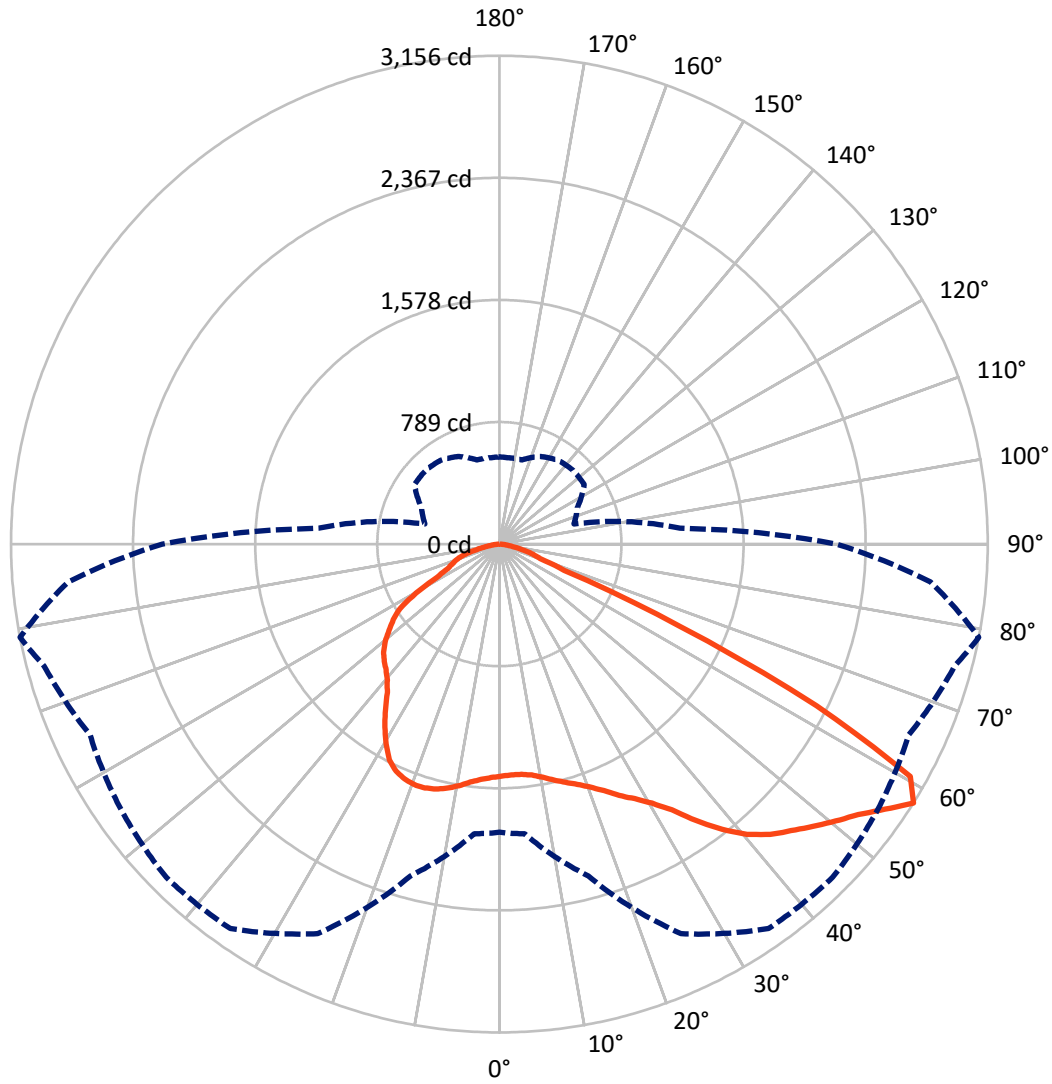
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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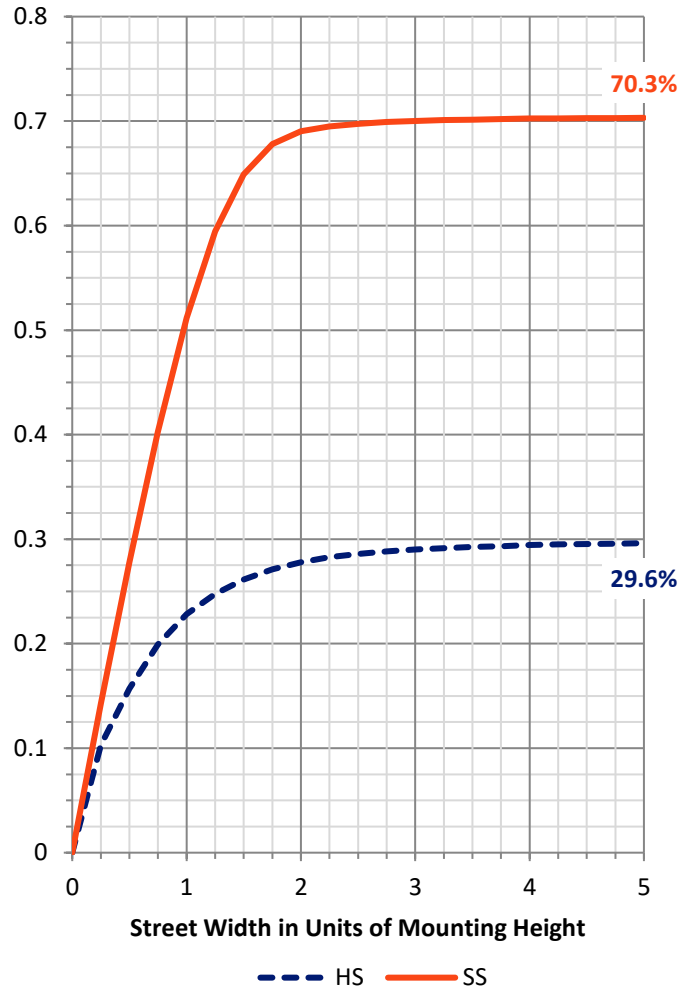
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1798.5	0.0	1798.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	4252.0	0.0	4252.0
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	6050.5	0.0	6050.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.9	2.3
10°-20°	385.9	6.4
20°-30°	654.1	10.8
30°-40°	1001.2	16.5
40°-50°	1335.0	22.1
50°-60°	1541.8	25.5
60°-70°	801.2	13.2
70°-80°	170.3	2.8
80°-90°	22.1	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°	6050.5	100.0
0°-180°	6050.5	100.0

**Coefficient of Utilization**



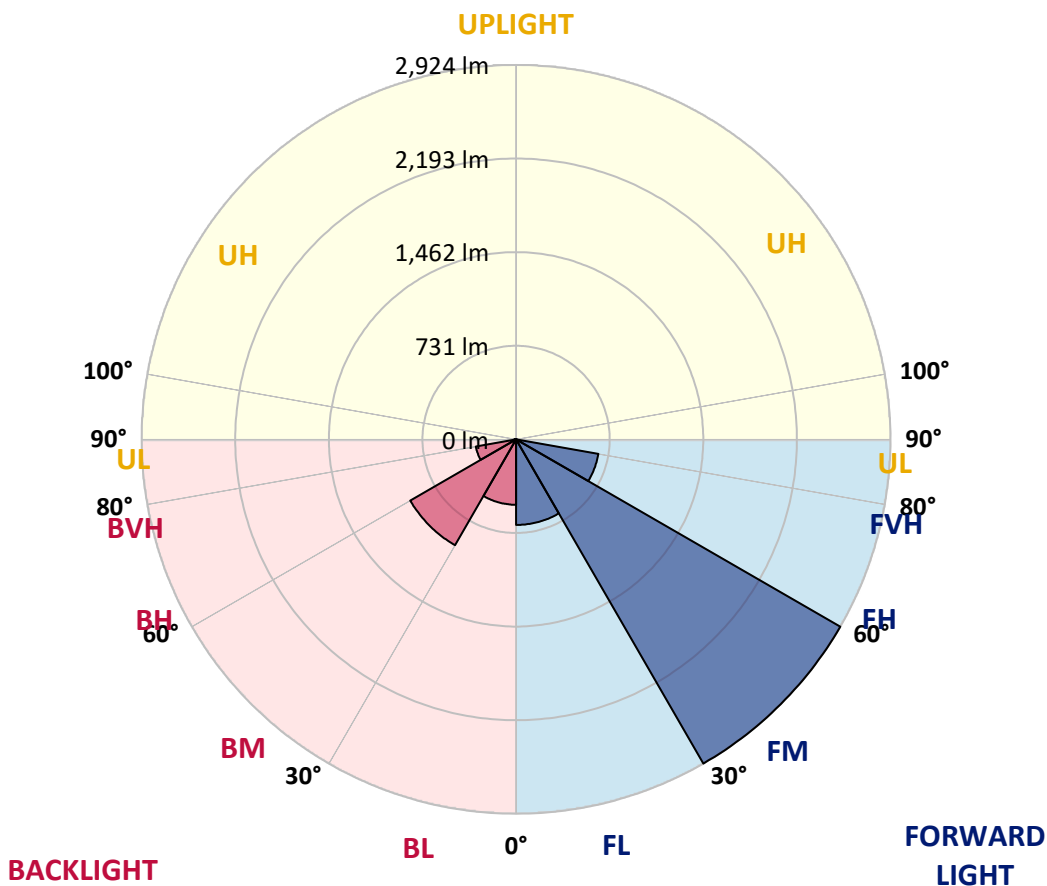
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.1	11.0			
FM (30°-60°)	2923.8	48.3			
FH (60°-80°)	652.4	10.8			G0/660
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	510.8	8.4	B2/1000		
BM (30°-60°)	954.3	15.8	B1/1000		
BH (60°-80°)	319.1	5.3	B1/500		G1/500
BVH (80°-90°)	14.4	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5
2.5°	1431.2	1428.2	1429.2	1433.2	1448.0	1458.9	1470.3	1480.7	1490.5	1493.5	1496.0
5°	1380.2	1374.8	1376.3	1382.7	1400.0	1418.3	1438.6	1463.3	1487.1	1495.0	1505.4
7.5°	1344.1	1343.1	1345.6	1355.5	1373.8	1391.1	1417.3	1452.5	1493.5	1506.9	1525.2
10°	1296.1	1294.2	1304.0	1324.3	1354.5	1382.2	1413.4	1454.9	1512.3	1532.1	1560.3
12.5°	1258.0	1257.0	1267.4	1295.6	1334.2	1378.3	1421.3	1467.8	1537.5	1564.8	1599.4
15°	1280.3	1275.8	1276.3	1296.1	1330.8	1382.7	1441.1	1491.0	1562.8	1597.4	1641.9
17.5°	1345.1	1337.2	1331.3	1334.7	1354.5	1408.4	1471.3	1522.2	1592.0	1632.5	1686.9
20°	1434.6	1430.2	1413.9	1403.0	1407.4	1454.9	1518.7	1566.2	1630.1	1675.6	1733.9
22.5°	1554.9	1544.0	1521.7	1504.4	1491.0	1528.1	1587.0	1628.1	1683.0	1730.5	1791.3
25°	1703.8	1687.9	1652.8	1625.6	1596.9	1635.0	1687.4	1718.6	1755.7	1799.7	1857.6
27.5°	1855.6	1842.3	1803.2	1766.6	1731.0	1754.7	1817.1	1834.9	1830.9	1863.1	1912.5
30°	2017.4	2000.6	1963.5	1923.9	1877.9	1893.2	1949.1	1958.0	1916.0	1942.7	1976.4
32.5°	2188.1	2171.8	2139.6	2093.6	2041.7	2047.6	2062.9	2071.3	2031.3	2046.6	2072.3
35°	2361.7	2346.4	2313.7	2268.2	2230.1	2194.0	2155.4	2189.1	2165.8	2195.5	2193.5
37.5°	2520.5	2505.2	2484.9	2449.8	2384.5	2313.2	2224.2	2265.8	2301.9	2339.5	2333.0
40°	2627.9	2617.5	2622.4	2617.0	2532.9	2391.9	2257.8	2303.4	2401.8	2466.1	2462.6
42.5°	2720.4	2710.0	2738.7	2759.5	2660.5	2464.6	2274.2	2317.7	2465.6	2566.0	2561.1
45°	2761.4	2758.5	2806.0	2871.8	2777.3	2541.8	2316.2	2347.4	2514.1	2642.7	2623.9
47.5°	2712.5	2722.9	2816.4	2927.7	2874.2	2633.3	2402.3	2410.2	2577.4	2725.8	2672.9
50°	2615.0	2637.8	2763.9	2929.2	2945.0	2736.7	2521.5	2501.7	2662.5	2814.4	2698.6
52.5°	2473.0	2496.8	2702.6	2917.8	2985.6	2856.4	2680.3	2652.1	2769.9	2902.9	2703.1
55°	2147.0	2179.2	2562.1	2892.1	3025.1	2965.3	2859.4	2802.0	2908.4	3024.6	2747.1
57.5°	1862.6	1879.4	2219.7	2777.8	3033.0	3045.4	2987.0	2918.8	3045.9	3156.2	2796.6
60°	1366.9	1370.8	1677.1	2298.4	2790.1	2998.9	2976.6	2875.2	2980.6	3050.9	2570.0
62.5°	772.2	772.7	1017.1	1534.1	2084.2	2444.3	2458.2	2368.7	2280.1	2300.9	1788.9
65°	289.9	317.1	464.5	753.9	1201.6	1443.1	1500.4	1521.2	1373.8	1282.3	959.2
67.5°	193.9	200.4	271.1	387.8	534.8	617.4	690.6	692.6	506.6	451.7	378.0
70°	147.9	154.3	213.2	277.5	271.1	250.3	270.6	263.2	272.1	279.5	287.4
72.5°	110.3	116.8	165.2	195.9	162.8	160.3	181.6	201.8	220.6	228.6	240.9
75°	73.2	78.2	111.3	104.9	90.0	106.4	132.6	152.9	163.7	173.1	182.5
77.5°	46.5	50.0	59.4	48.0	50.0	62.3	77.2	95.5	105.9	115.3	120.2
80°	21.3	20.8	20.3	22.8	28.2	36.6	46.5	57.4	65.3	69.3	72.2
82.5°	8.4	9.4	10.4	12.4	15.3	19.8	26.2	33.6	40.1	41.1	43.5
85°	3.5	4.0	4.5	5.4	6.9	8.9	10.9	15.3	19.3	20.8	22.3
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	1.5	2.5	4.5	4.9	5.4
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°	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5	1499.5
2.5°	1509.3	1502.9	1513.8	1521.2	1528.1	1520.7	1518.3	1511.8	1510.8	1510.8	1514.3
5°	1523.2	1518.7	1530.1	1534.6	1534.1	1517.8	1507.9	1495.0	1488.6	1488.6	1489.6
7.5°	1547.9	1545.5	1551.9	1545.0	1529.1	1496.0	1463.3	1436.1	1417.8	1408.4	1411.4
10°	1589.0	1586.0	1580.6	1554.9	1509.3	1440.6	1373.8	1324.3	1294.6	1277.8	1278.8
12.5°	1629.1	1624.1	1604.8	1547.9	1454.4	1345.1	1257.5	1202.1	1169.5	1149.7	1145.2
15°	1673.1	1660.2	1618.7	1512.3	1364.9	1228.4	1136.8	1077.0	1041.9	1030.0	1029.5
17.5°	1715.1	1692.4	1617.2	1449.0	1257.5	1106.2	1014.1	977.0	971.1	976.5	978.0
20°	1757.7	1721.1	1600.9	1361.4	1129.9	984.5	937.0	952.3	974.6	989.4	992.9
22.5°	1801.7	1744.8	1563.8	1248.6	995.3	902.3	922.1	955.8	983.5	1003.3	1005.2
25°	1851.2	1767.1	1508.4	1110.6	887.5	879.6	918.7	954.3	984.0	1006.7	1010.7
27.5°	1879.4	1767.6	1430.7	968.6	838.0	870.7	910.3	943.9	973.6	998.3	1002.8
30°	1907.1	1754.2	1307.5	853.4	823.7	860.3	895.9	927.1	955.3	979.5	985.0
32.5°	1946.2	1741.9	1165.5	787.1	815.3	850.4	879.6	907.3	929.1	939.9	942.9
35°	1994.7	1726.0	1014.6	758.4	809.8	842.5	868.2	883.1	854.9	848.9	855.3
37.5°	2062.4	1711.2	864.3	746.0	806.4	839.5	862.3	824.2	789.6	775.7	780.6
40°	2135.6	1702.8	762.3	736.1	807.9	842.5	837.5	781.1	731.2	702.0	701.0
42.5°	2198.0	1689.9	697.0	729.7	811.8	853.9	803.9	743.0	668.8	651.5	652.0
45°	2240.0	1657.3	662.4	722.8	815.3	856.3	788.1	690.6	637.7	626.8	626.3
47.5°	2257.3	1597.9	640.1	711.9	814.8	836.1	755.9	668.8	615.9	612.9	614.9
50°	2246.0	1500.4	617.4	690.6	802.9	814.8	718.8	649.5	601.1	617.4	629.3
52.5°	2203.9	1374.3	590.2	661.4	781.6	790.5	700.0	637.7	590.2	612.0	621.4
55°	2193.0	1271.9	555.6	623.3	750.0	747.5	680.2	631.7	582.8	574.4	575.8
57.5°	2178.7	1172.0	498.2	555.1	669.8	673.8	661.4	624.8	563.5	561.0	563.5
60°	1892.7	898.4	444.2	478.9	550.1	571.4	640.1	612.0	532.3	521.9	521.4
62.5°	1236.3	544.2	395.3	417.5	448.2	472.9	583.8	574.8	498.2	491.7	496.2
65°	664.9	387.8	359.7	373.0	389.8	408.6	483.8	512.0	450.2	427.4	427.9
67.5°	339.9	330.0	332.9	342.3	355.2	364.6	390.3	415.1	383.9	364.6	364.1
70°	290.9	298.8	303.3	308.7	317.1	315.6	318.1	322.5	320.1	310.7	310.2
72.5°	247.8	260.2	261.2	262.2	265.2	258.2	253.8	246.4	246.9	248.3	248.8
75°	188.5	200.4	203.3	201.8	204.8	195.9	190.0	182.5	173.6	172.2	173.1
77.5°	122.7	132.1	136.5	135.5	137.0	130.1	127.1	119.2	108.8	104.9	104.9
80°	74.2	79.6	83.1	84.1	85.6	80.6	75.7	68.8	64.3	59.9	59.9
82.5°	45.0	48.5	51.0	51.0	52.4	47.0	43.0	38.1	36.1	32.2	32.2
85°	22.8	25.2	26.2	25.7	24.7	20.3	18.8	16.3	15.3	13.4	13.4
87.5°	5.4	6.9	6.9	4.9	4.9	2.5	1.5	0.5	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)