

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: P630416

Luminaire Tested: GWS-SA1D-750-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630416  
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-SA1D-750-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

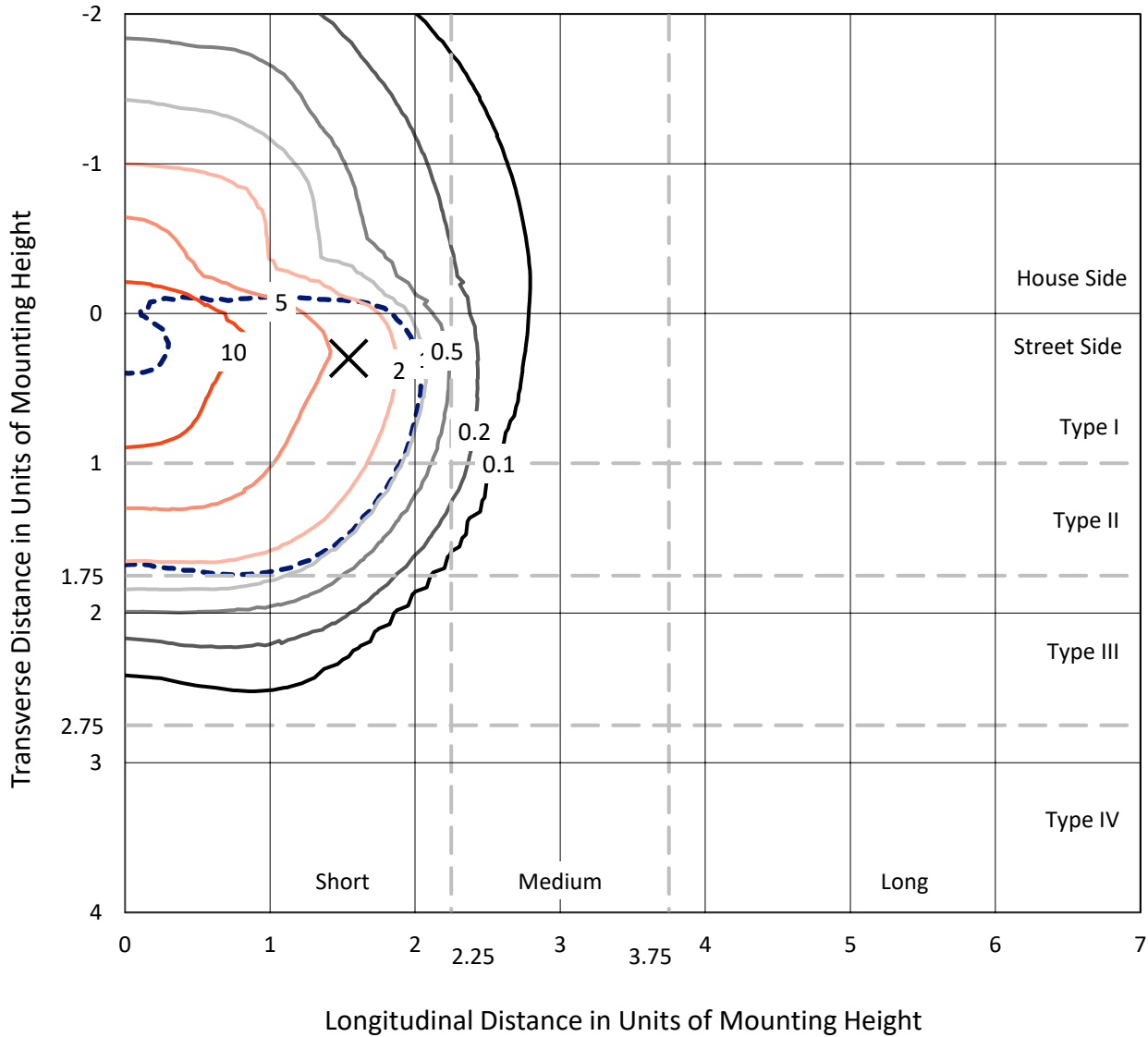
Lumens per Lamp: N/A  
Luminaire Lumens: 5438.1 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

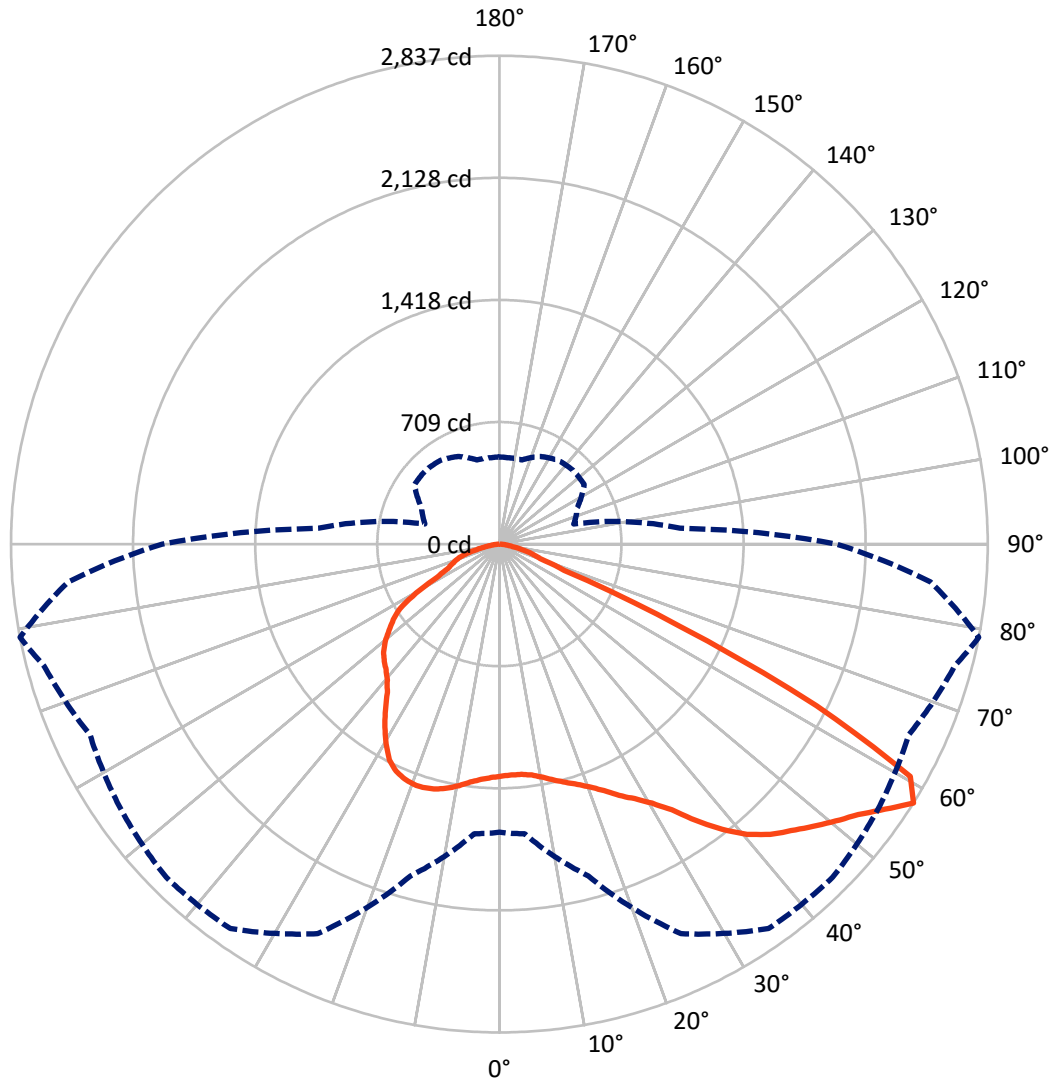
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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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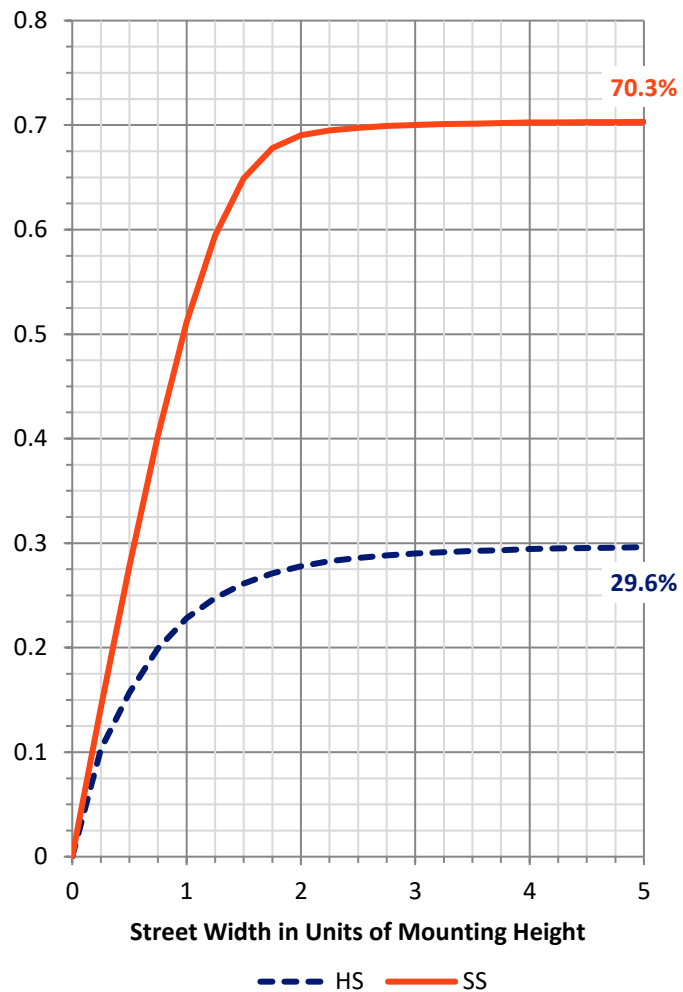
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1616.5	0.0	1616.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	3821.6	0.0	3821.6
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	5438.1	0.0	5438.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.8	2.3
10°-20°	346.8	6.4
20°-30°	587.9	10.8
30°-40°	899.9	16.5
40°-50°	1199.9	22.1
50°-60°	1385.8	25.5
60°-70°	720.1	13.2
70°-80°	153.1	2.8
80°-90°	19.8	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°	5438.1	100.0
0°-180°	5438.1	100.0

**Coefficient of Utilization**



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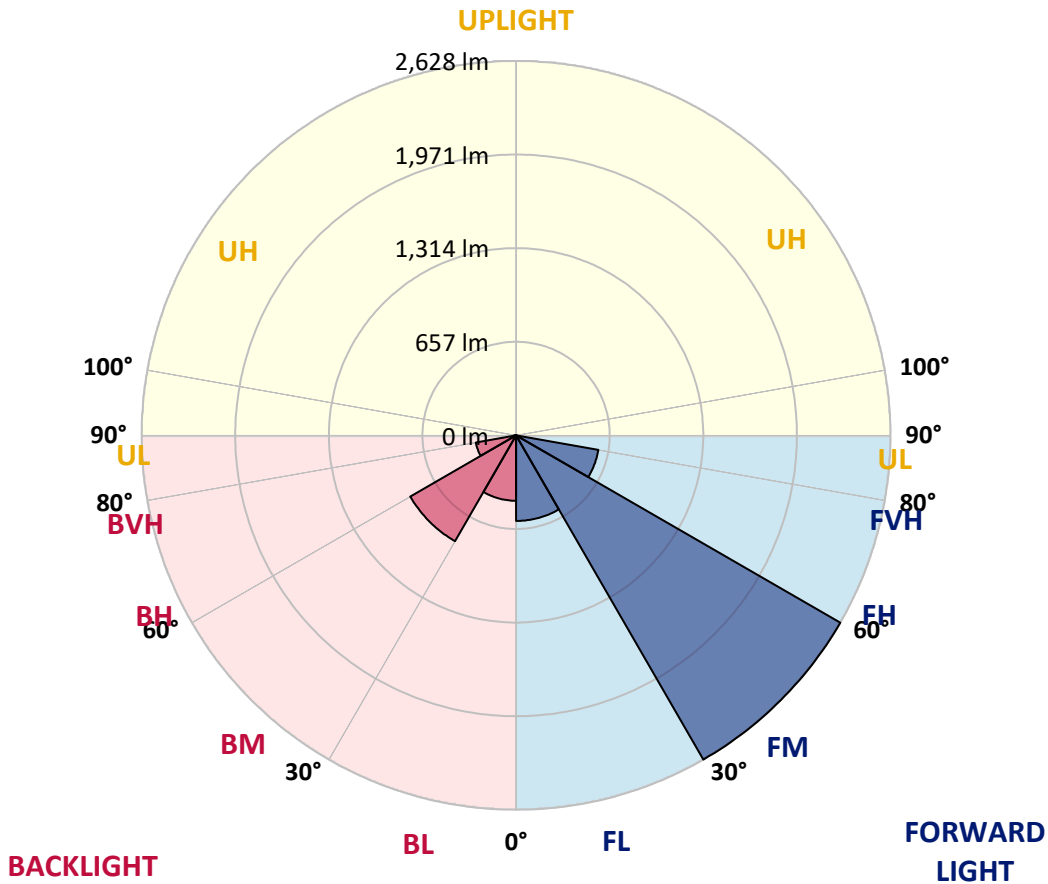
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	600.5	11.0			
FM (30°-60°)	2627.8	48.3			
FH (60°-80°)	586.4	10.8			G0/660
FVH (80°-90°)	6.9	0.1			G0/10
BL (0°-30°)	459.1	8.4	B1/500		
BM (30°-60°)	857.7	15.8	B1/1000		
BH (60°-80°)	286.8	5.3	B1/500		G1/500
BVH (80°-90°)	12.9	0.2			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°	55°	65°	75°	79°	85°
0°	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7
2.5°	1286.3	1283.7	1284.5	1288.1	1301.4	1311.2	1321.5	1330.8	1339.7	1342.4	1344.6
5°	1240.5	1235.6	1237.0	1242.8	1258.3	1274.8	1293.0	1315.2	1336.6	1343.7	1353.0
7.5°	1208.1	1207.2	1209.4	1218.3	1234.7	1250.3	1273.9	1305.4	1342.4	1354.4	1370.8
10°	1164.9	1163.2	1172.1	1190.3	1217.4	1242.3	1270.3	1307.7	1359.2	1377.0	1402.4
12.5°	1130.7	1129.8	1139.2	1164.5	1199.2	1238.8	1277.4	1319.2	1381.9	1406.4	1437.5
15°	1150.7	1146.7	1147.2	1164.9	1196.1	1242.8	1295.2	1340.1	1404.6	1435.7	1475.7
17.5°	1209.0	1201.8	1196.5	1199.6	1217.4	1265.9	1322.3	1368.1	1430.8	1467.3	1516.2
20°	1289.4	1285.4	1270.8	1261.0	1265.0	1307.7	1365.0	1407.7	1465.1	1506.0	1558.4
22.5°	1397.5	1387.7	1367.7	1352.1	1340.1	1373.5	1426.4	1463.3	1512.6	1555.3	1610.0
25°	1531.3	1517.1	1485.5	1461.1	1435.3	1469.5	1516.6	1544.7	1578.0	1617.6	1669.6
27.5°	1667.8	1655.8	1620.7	1587.8	1555.8	1577.1	1633.1	1649.1	1645.6	1674.5	1719.0
30°	1813.2	1798.1	1764.8	1729.2	1687.8	1701.6	1751.9	1759.9	1722.1	1746.1	1776.3
32.5°	1966.6	1951.9	1923.0	1881.7	1835.0	1840.3	1854.1	1861.7	1825.7	1839.5	1862.6
35°	2122.7	2108.9	2079.6	2038.6	2004.4	1972.0	1937.3	1967.5	1946.6	1973.3	1971.5
37.5°	2265.4	2251.6	2233.4	2201.8	2143.1	2079.1	1999.1	2036.4	2068.9	2102.7	2096.9
40°	2361.9	2352.6	2357.0	2352.1	2276.5	2149.8	2029.3	2070.2	2158.7	2216.5	2213.4
42.5°	2445.0	2435.7	2461.5	2480.2	2391.2	2215.2	2044.0	2083.1	2216.1	2306.3	2301.9
45°	2481.9	2479.3	2522.0	2581.1	2496.2	2284.5	2081.8	2109.8	2259.6	2375.2	2358.3
47.5°	2437.9	2447.3	2531.3	2631.3	2583.3	2366.8	2159.1	2166.3	2316.5	2449.9	2402.4
50°	2350.3	2370.8	2484.2	2632.7	2646.9	2459.7	2266.3	2248.5	2393.0	2529.5	2425.5
52.5°	2222.7	2244.1	2429.0	2622.5	2683.4	2567.3	2409.0	2383.7	2489.5	2609.1	2429.5
55°	1929.7	1958.6	2302.8	2599.3	2718.9	2665.1	2570.0	2518.4	2614.0	2718.5	2469.1
57.5°	1674.0	1689.2	1995.1	2496.6	2726.1	2737.2	2684.7	2623.3	2737.6	2836.8	2513.5
60°	1228.5	1232.1	1507.3	2065.8	2507.7	2695.4	2675.4	2584.2	2678.9	2742.1	2309.9
62.5°	694.1	694.5	914.2	1378.8	1873.2	2196.9	2209.4	2128.9	2049.3	2068.0	1607.8
65°	260.6	285.0	417.5	677.6	1080.0	1297.0	1348.6	1367.3	1234.7	1152.5	862.1
67.5°	174.3	180.1	243.7	348.6	480.6	554.9	620.7	622.5	455.3	406.0	339.7
70°	132.9	138.7	191.6	249.4	243.7	225.0	243.2	236.5	244.5	251.2	258.3
72.5°	99.2	104.9	148.5	176.1	146.3	144.1	163.2	181.4	198.3	205.4	216.5
75°	65.8	70.3	100.0	94.3	80.9	95.6	119.2	137.4	147.2	155.6	164.1
77.5°	41.8	44.9	53.4	43.1	44.9	56.0	69.4	85.8	95.2	103.6	108.0
80°	19.1	18.7	18.2	20.5	25.3	32.9	41.8	51.6	58.7	62.2	64.9
82.5°	7.6	8.4	9.3	11.1	13.8	17.8	23.6	30.2	36.0	36.9	39.1
85°	3.1	3.6	4.0	4.9	6.2	8.0	9.8	13.8	17.3	18.7	20.0
87.5°	0.0	0.0	0.0	0.0	0.4	0.9	1.3	2.2	4.0	4.4	4.9
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°	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7
2.5°	1356.6	1350.8	1360.6	1367.3	1373.5	1366.8	1364.6	1358.8	1357.9	1357.9	1361.0
5°	1369.0	1365.0	1375.3	1379.3	1378.8	1364.1	1355.2	1343.7	1337.9	1337.9	1338.8
7.5°	1391.3	1389.0	1394.8	1388.6	1374.4	1344.6	1315.2	1290.8	1274.3	1265.9	1268.5
10°	1428.2	1425.5	1420.6	1397.5	1356.6	1294.8	1234.7	1190.3	1163.6	1148.5	1149.4
12.5°	1464.2	1459.7	1442.4	1391.3	1307.2	1209.0	1130.3	1080.5	1051.1	1033.3	1029.3
15°	1503.8	1492.2	1454.8	1359.2	1226.7	1104.0	1021.8	968.0	936.4	925.7	925.3
17.5°	1541.5	1521.1	1453.5	1302.3	1130.3	994.2	911.5	878.2	872.8	877.7	879.0
20°	1579.8	1546.9	1438.8	1223.6	1015.5	884.8	842.1	855.9	875.9	889.3	892.4
22.5°	1619.4	1568.2	1405.5	1122.3	894.6	811.0	828.8	859.0	883.9	901.7	903.5
25°	1663.8	1588.2	1355.7	998.2	797.7	790.6	825.7	857.7	884.4	904.8	908.4
27.5°	1689.2	1588.7	1285.9	870.6	753.2	782.6	818.1	848.4	875.0	897.3	901.3
30°	1714.1	1576.7	1175.2	767.0	740.3	773.2	805.2	833.2	858.6	880.4	885.3
32.5°	1749.2	1565.6	1047.6	707.4	732.8	764.3	790.6	815.5	835.0	844.8	847.5
35°	1792.8	1551.3	911.9	681.6	727.9	757.2	780.3	793.7	768.3	763.0	768.8
37.5°	1853.7	1538.0	776.8	670.5	724.8	754.5	775.0	740.8	709.6	697.2	701.6
40°	1919.5	1530.4	685.2	661.6	726.1	757.2	752.8	702.1	657.2	630.9	630.0
42.5°	1975.5	1518.9	626.5	655.8	729.6	767.4	722.5	667.8	601.1	585.6	586.0
45°	2013.3	1489.5	595.4	649.6	732.8	769.7	708.3	620.7	573.1	563.4	562.9
47.5°	2028.9	1436.2	575.4	639.8	732.3	751.4	679.4	601.1	553.6	550.9	552.7
50°	2018.6	1348.6	554.9	620.7	721.6	732.3	646.1	583.8	540.2	554.9	565.6
52.5°	1980.8	1235.2	530.4	594.5	702.5	710.5	629.2	573.1	530.4	550.0	558.5
55°	1971.1	1143.2	499.3	560.2	674.1	671.8	611.4	567.8	523.8	516.2	517.6
57.5°	1958.2	1053.3	447.7	498.9	602.0	605.6	594.5	561.6	506.4	504.2	506.4
60°	1701.2	807.5	399.3	430.4	494.4	513.6	575.4	550.0	478.4	469.1	468.6
62.5°	1111.1	489.1	355.3	375.3	402.8	425.1	524.7	516.7	447.7	442.0	446.0
65°	597.6	348.6	323.2	335.3	350.4	367.3	434.9	460.2	404.6	384.2	384.6
67.5°	305.5	296.6	299.2	307.7	319.2	327.7	350.8	373.0	345.0	327.7	327.3
70°	261.4	268.6	272.6	277.5	285.0	283.7	285.9	289.9	287.7	279.2	278.8
72.5°	222.8	233.9	234.8	235.7	238.3	232.1	228.1	221.4	221.9	223.2	223.7
75°	169.4	180.1	182.7	181.4	184.1	176.1	170.7	164.1	156.1	154.7	155.6
77.5°	110.3	118.7	122.7	121.8	123.2	116.9	114.3	107.2	97.8	94.3	94.3
80°	66.7	71.6	74.7	75.6	76.9	72.5	68.0	61.8	57.8	53.8	53.8
82.5°	40.5	43.6	45.8	45.8	47.1	42.2	38.7	34.2	32.5	28.9	28.9
85°	20.5	22.7	23.6	23.1	22.2	18.2	16.9	14.7	13.8	12.0	12.0
87.5°	4.9	6.2	6.2	4.4	4.4	2.2	1.3	0.4	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)