

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: P631924

Luminaire Tested: GWS-SA2B-760-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-760-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

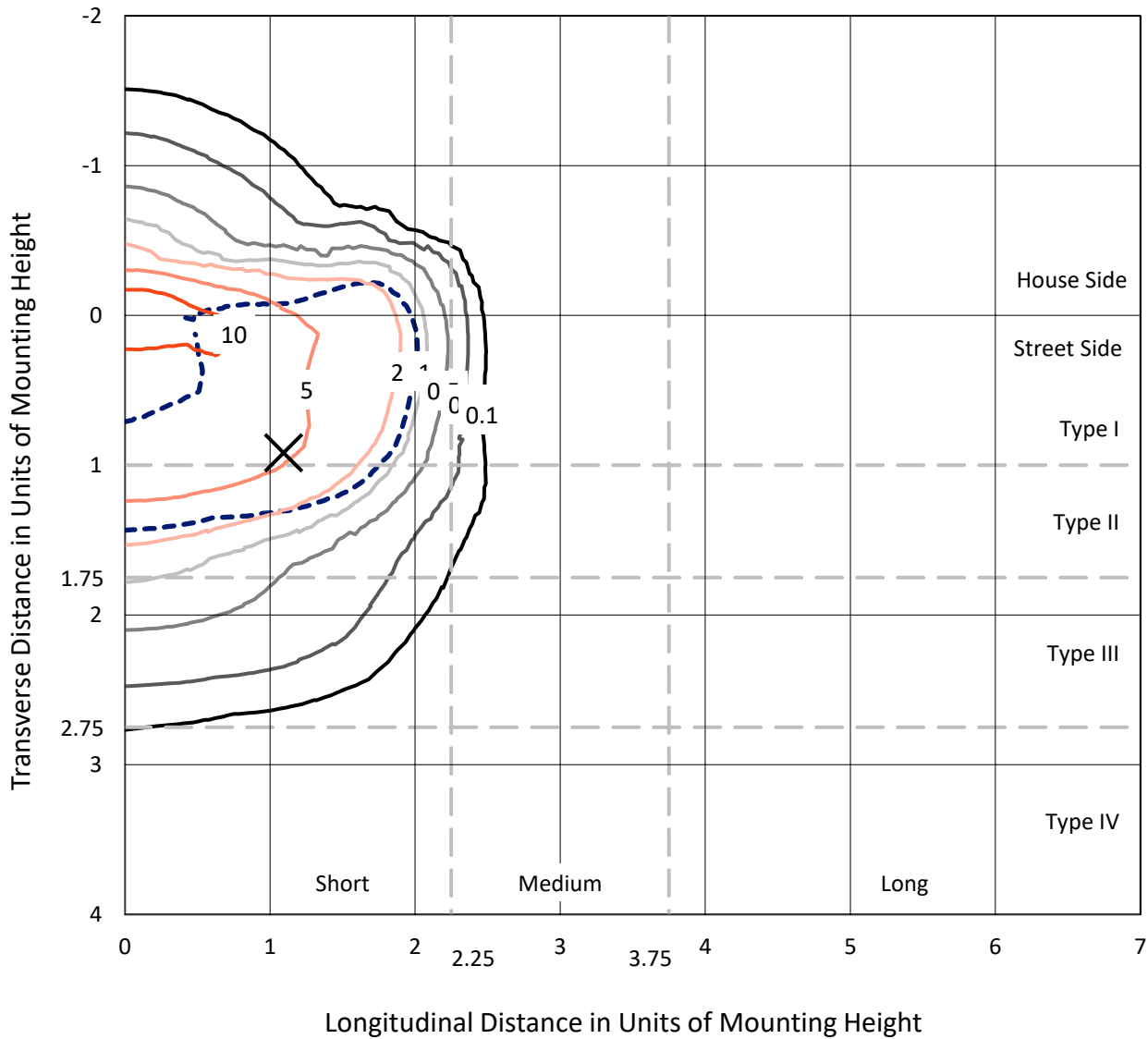
Lumens per Lamp: N/A  
Luminaire Lumens: 4088.4 lumens  
Efficiency: N/A  
Efficacy: 88.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

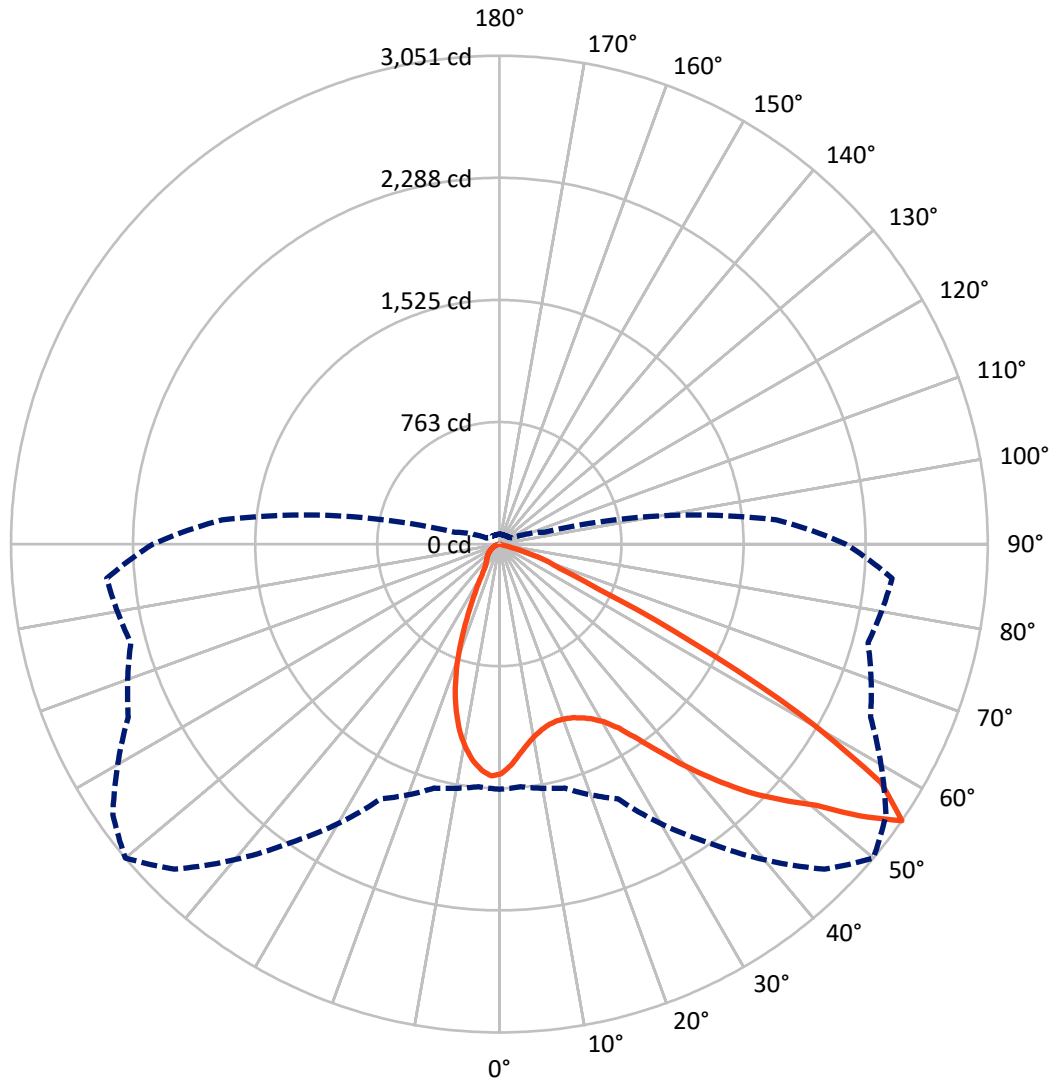
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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CATALOG NUMBER: GWS-SA2B-760-U-SL2-W-GRSBK

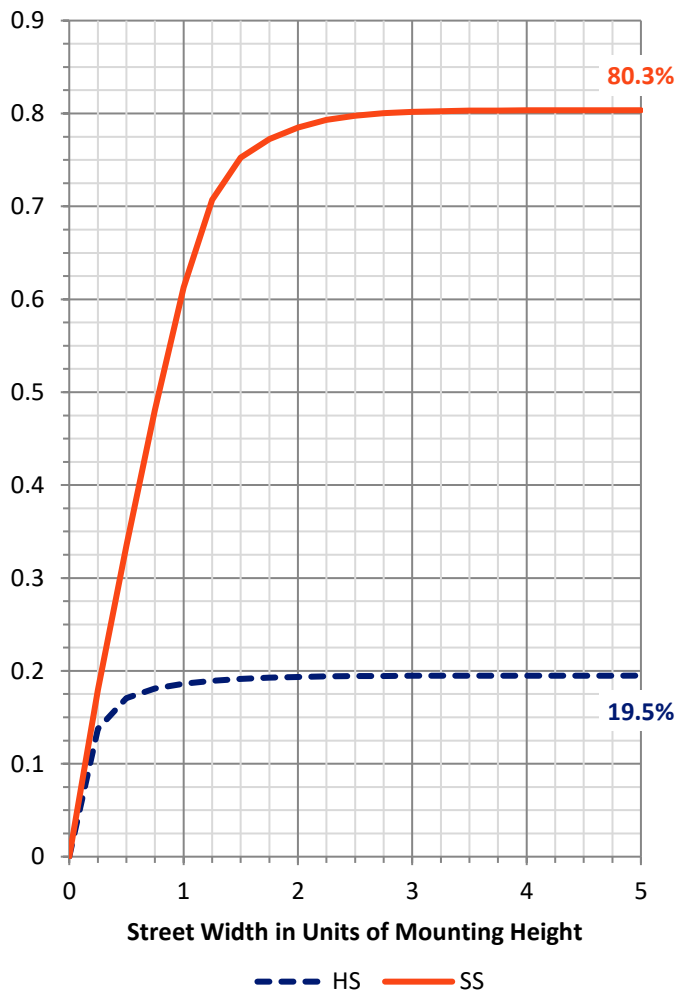
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	805.6	0.0	805.6
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	3282.8	0.0	3282.8
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	4088.4	0.0	4088.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.0	3.1
10°-20°	310.0	7.6
20°-30°	437.3	10.7
30°-40°	647.1	15.8
40°-50°	933.5	22.8
50°-60°	1101.1	26.9
60°-70°	491.2	12.0
70°-80°	42.2	1.0
80°-90°	0.0	0.0
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°	4088.4	100.0
0°-180°	4088.4	100.0

**Coefficient of Utilization**



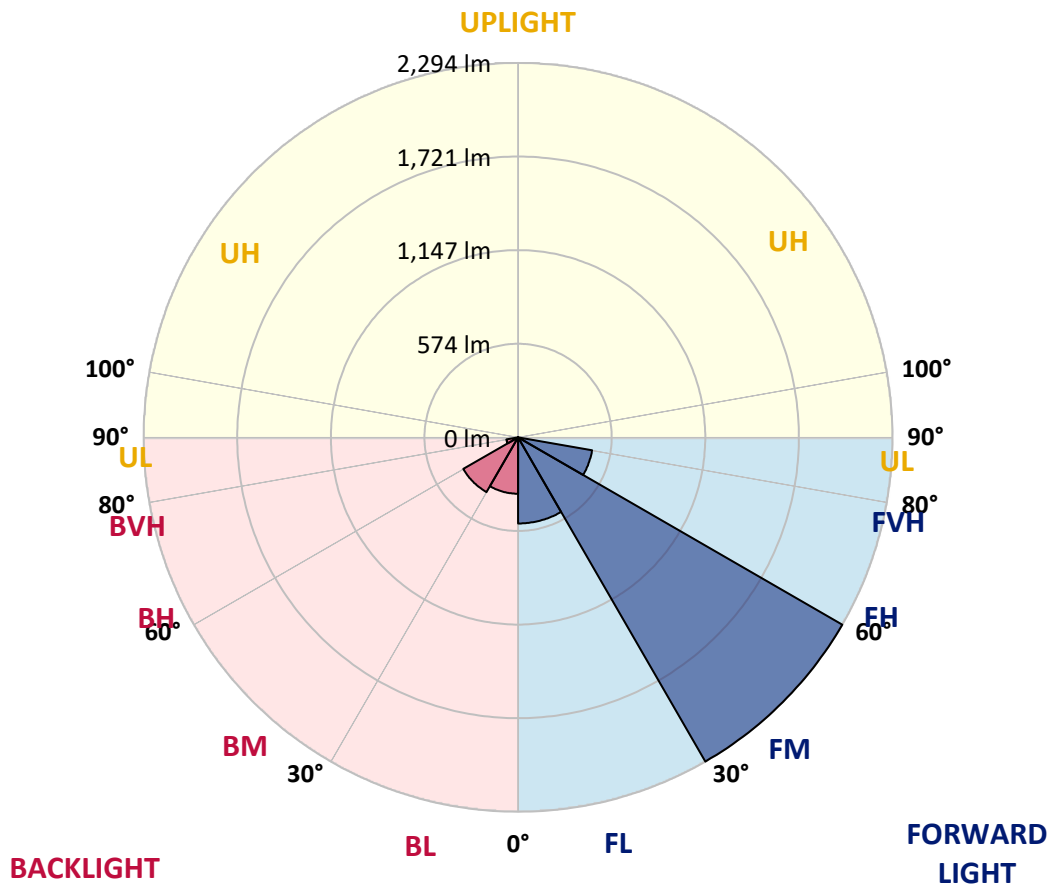
REPORT NUMBER: P631924

CATALOG NUMBER: GWS-SA2B-760-U-SL2-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.8	12.9			
FM (30°-60°)	2294.3	56.1			
FH (60°-80°)	460.7	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	345.4	8.4	B1/500		
BM (30°-60°)	387.4	9.5	B1/1000		
BH (60°-80°)	72.7	1.8	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4
2.5°	1332.6	1333.6	1334.1	1347.6	1352.6	1372.5	1383.0	1388.5	1403.0	1420.0	1433.9
5°	1243.3	1241.8	1244.3	1261.2	1272.2	1301.7	1317.6	1328.6	1360.6	1400.5	1433.9
7.5°	1165.4	1168.4	1171.4	1189.9	1206.3	1238.3	1261.2	1277.7	1322.1	1381.5	1437.9
10°	1110.5	1110.5	1115.0	1136.0	1155.4	1194.9	1217.8	1238.8	1291.7	1364.6	1442.4
12.5°	1070.1	1070.6	1076.1	1100.0	1122.5	1163.4	1187.4	1207.8	1266.2	1347.6	1443.4
15°	1051.1	1049.6	1054.1	1079.6	1104.5	1143.0	1167.9	1187.9	1248.3	1338.1	1448.4
17.5°	1046.1	1045.1	1048.6	1073.6	1099.0	1136.5	1160.9	1180.9	1245.8	1341.1	1463.4
20°	1060.6	1058.6	1057.1	1078.6	1102.5	1139.5	1164.9	1187.4	1257.8	1357.6	1486.3
22.5°	1095.0	1095.0	1091.6	1102.0	1118.0	1151.4	1177.9	1207.3	1289.2	1390.5	1520.3
25°	1158.4	1153.4	1147.0	1151.4	1149.4	1170.4	1201.9	1242.8	1348.6	1444.9	1561.7
27.5°	1230.8	1235.3	1224.3	1224.8	1207.3	1199.9	1236.3	1298.2	1436.9	1521.8	1623.1
30°	1329.1	1325.6	1326.1	1324.6	1284.2	1248.8	1288.2	1370.6	1548.2	1639.1	1703.0
32.5°	1406.0	1411.0	1427.5	1436.9	1384.0	1327.1	1369.1	1468.9	1675.0	1772.8	1800.8
35°	1487.3	1496.3	1529.8	1560.7	1516.3	1450.9	1495.8	1599.1	1794.3	1905.1	1913.1
37.5°	1573.2	1591.2	1631.1	1685.5	1678.5	1620.6	1661.5	1752.4	1888.1	1985.0	2005.9
40°	1671.5	1689.0	1754.4	1832.7	1849.2	1836.2	1849.7	1902.6	1950.0	1988.4	2045.8
42.5°	1779.3	1803.3	1886.1	1990.9	2052.8	2064.3	2032.9	2027.4	1977.0	1948.5	2037.4
45°	1906.6	1934.5	2028.4	2164.1	2262.5	2277.9	2223.5	2153.2	1993.9	1919.1	2011.9
47.5°	2049.3	2075.8	2169.1	2332.3	2478.6	2484.6	2389.7	2276.4	2044.3	1953.0	2031.4
50°	2097.3	2113.7	2194.6	2386.2	2655.8	2701.7	2564.4	2415.2	2145.7	2052.8	2126.2
52.5°	1932.5	1939.0	2009.4	2203.1	2619.8	2914.8	2819.5	2622.3	2325.8	2205.1	2272.4
55°	1531.3	1520.8	1577.7	1755.4	2276.9	2871.4	3050.6	2947.7	2557.9	2383.7	2462.6
57.5°	1071.1	1058.6	1045.6	1165.9	1699.0	2434.2	2811.0	2993.2	2779.0	2560.9	2667.7
60°	880.4	868.4	805.6	750.2	1027.2	1747.9	2159.1	2502.0	2761.1	2551.9	2661.2
62.5°	760.6	753.7	728.2	652.8	604.4	997.7	1352.1	1680.5	2118.7	2003.9	2009.9
65°	597.4	595.4	612.9	620.9	534.5	552.0	689.8	873.4	1145.5	1080.1	1024.2
67.5°	408.3	403.8	436.7	537.0	514.1	435.7	403.8	407.3	495.6	303.0	240.6
70°	259.5	249.1	249.6	332.9	418.3	343.9	311.4	274.0	246.6	44.9	50.9
72.5°	166.2	159.7	137.3	150.2	193.7	167.7	169.2	145.7	97.3	24.0	28.0
75°	69.9	64.4	49.4	39.4	38.9	24.5	21.5	20.0	13.5	13.5	14.5
77.5°	0.5	0.0	0.0	0.5	1.0	0.5	0.5	1.0	2.0	3.0	3.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CATALOG NUMBER: GWS-SA2B-760-U-SL2-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4	1434.4
2.5°	1442.4	1430.4	1443.9	1448.9	1448.4	1448.9	1434.4	1424.5	1424.0	1411.5	1405.5
5°	1447.9	1438.4	1448.4	1441.9	1426.5	1407.0	1381.0	1358.6	1348.6	1334.1	1327.1
7.5°	1458.4	1448.4	1446.9	1421.0	1382.5	1341.6	1295.7	1254.8	1232.8	1206.3	1207.8
10°	1465.9	1454.4	1434.9	1382.0	1318.1	1252.8	1184.4	1123.5	1085.1	1049.6	1043.6
12.5°	1468.9	1451.9	1406.5	1326.6	1236.8	1151.4	1051.1	964.3	904.4	858.0	851.5
15°	1474.4	1446.9	1370.1	1259.8	1136.5	1015.7	887.9	769.1	689.8	636.4	640.9
17.5°	1482.9	1441.4	1329.1	1184.9	1028.7	858.0	685.3	549.0	476.1	445.2	445.7
20°	1494.8	1434.9	1284.2	1102.5	899.4	679.8	479.1	376.3	355.9	354.9	353.4
22.5°	1510.8	1428.4	1236.3	1012.2	746.2	476.1	318.9	287.0	295.5	311.9	314.9
25°	1529.8	1420.5	1182.9	910.4	579.0	312.4	239.1	234.1	254.5	276.5	281.5
27.5°	1559.2	1416.5	1122.0	794.6	406.3	224.1	195.7	198.6	217.1	235.6	240.1
30°	1609.1	1424.0	1055.6	664.8	261.0	178.7	169.7	174.2	184.2	193.7	197.6
32.5°	1677.0	1445.9	991.2	523.1	186.2	155.2	153.2	155.7	159.7	165.2	166.7
35°	1756.4	1483.8	924.8	374.3	153.7	141.7	139.8	139.8	141.7	142.7	143.2
37.5°	1821.7	1523.8	862.5	249.1	137.8	131.3	128.3	126.8	126.3	127.3	127.8
40°	1850.2	1540.2	794.6	181.2	126.3	121.8	117.3	112.8	112.8	116.3	116.8
42.5°	1830.2	1521.8	716.2	149.7	118.3	111.8	104.8	100.8	102.8	106.3	107.3
45°	1787.8	1476.4	629.9	132.3	110.3	101.8	93.8	91.3	93.3	97.8	98.8
47.5°	1780.8	1446.4	526.6	120.8	101.8	93.3	84.8	82.4	84.8	88.3	89.3
50°	1850.2	1472.4	411.8	110.8	93.8	84.3	77.4	74.9	76.4	78.4	79.4
52.5°	1977.0	1568.7	332.4	101.3	84.3	75.4	70.9	67.9	67.9	69.9	70.4
55°	2164.1	1736.9	287.0	90.3	73.4	68.4	64.4	61.4	61.4	62.4	62.9
57.5°	2379.7	1940.5	297.5	75.9	64.4	61.9	58.4	55.9	56.9	56.9	56.9
60°	2349.8	1925.6	318.4	63.9	56.9	55.9	52.9	51.9	54.4	52.4	51.4
62.5°	1730.9	1330.1	166.7	52.4	48.9	47.9	45.9	47.9	51.4	45.9	43.9
65°	840.5	643.9	66.9	42.9	41.4	40.4	39.4	42.4	44.4	35.9	33.9
67.5°	197.6	160.7	43.4	36.4	34.4	32.4	33.4	33.9	32.4	24.5	23.5
70°	51.4	50.4	33.9	30.4	27.5	25.5	25.5	25.0	21.5	15.5	14.5
72.5°	28.0	27.5	24.5	23.0	19.0	17.0	17.5	15.5	12.0	9.0	8.5
75°	14.0	15.0	14.0	13.0	10.5	9.5	9.5	8.5	6.0	3.5	3.5
77.5°	3.0	3.5	3.5	3.0	2.5	2.0	2.0	2.5	1.0	0.0	0.0
80°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)