

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: P632089

Luminaire Tested: GWS-SA2C-722-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632089  
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-SA2C-722-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) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

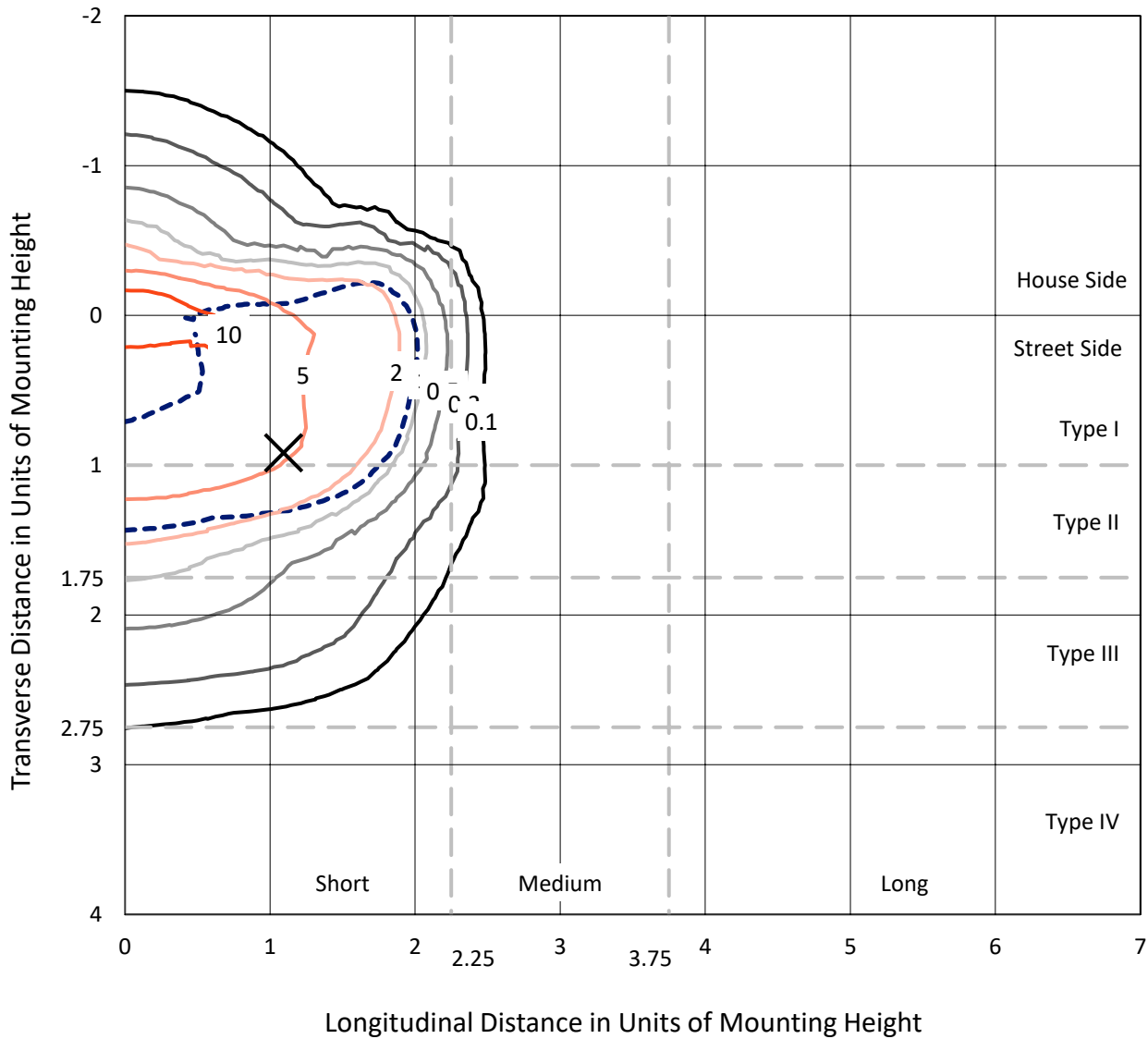
Lumens per Lamp: N/A  
Luminaire Lumens: 4003.1 lumens  
Efficiency: N/A  
Efficacy: 63.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

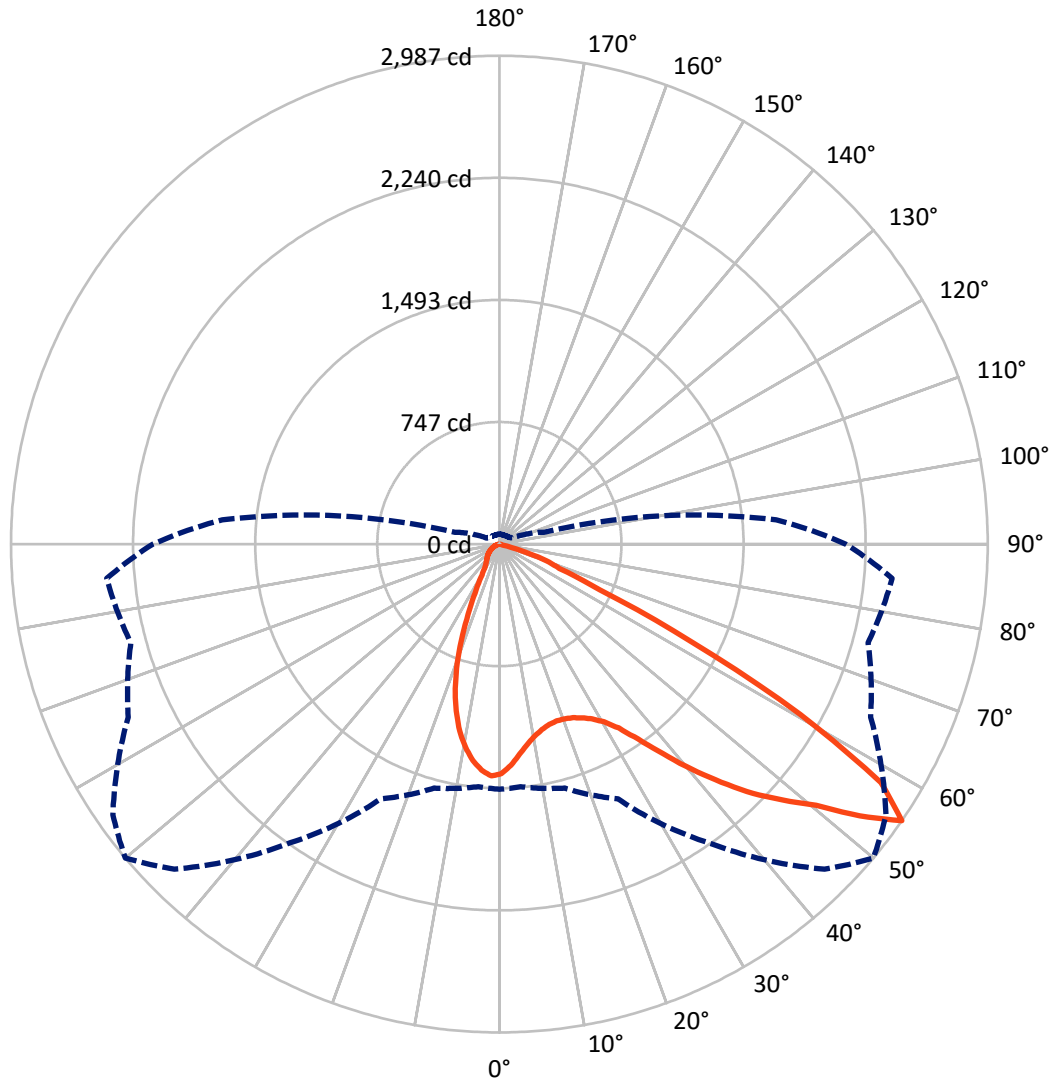
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 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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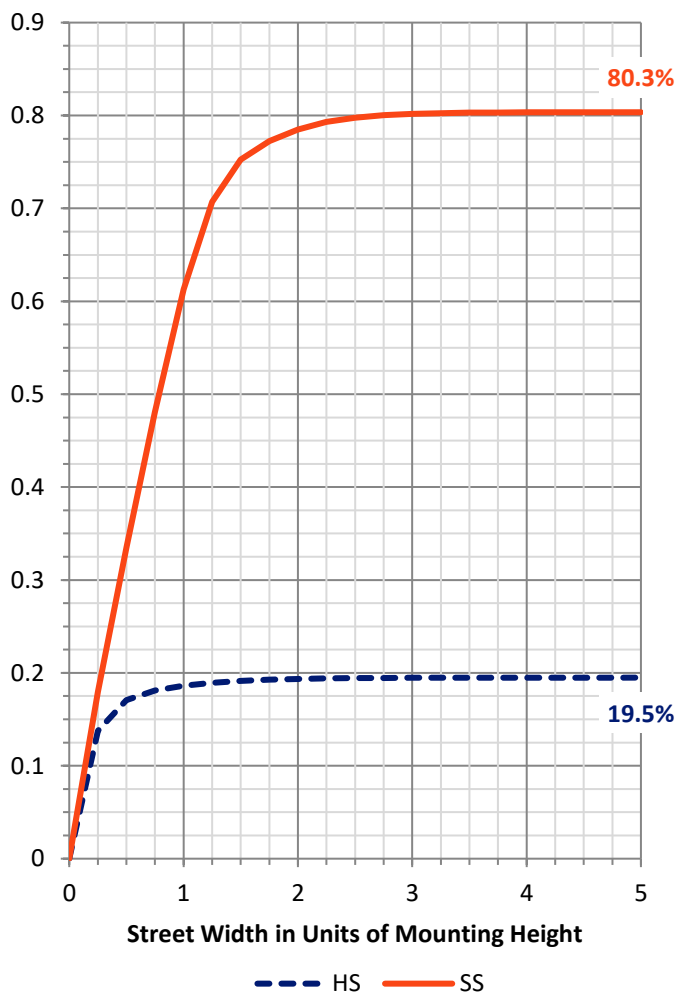
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	788.8	0.0	788.8
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	3214.3	0.0	3214.3
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	4003.1	0.0	4003.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.3	3.1
10°-20°	303.5	7.6
20°-30°	428.1	10.7
30°-40°	633.6	15.8
40°-50°	914.0	22.8
50°-60°	1078.2	26.9
60°-70°	480.9	12.0
70°-80°	41.3	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°	4003.1	100.0
0°-180°	4003.1	100.0

**Coefficient of Utilization**



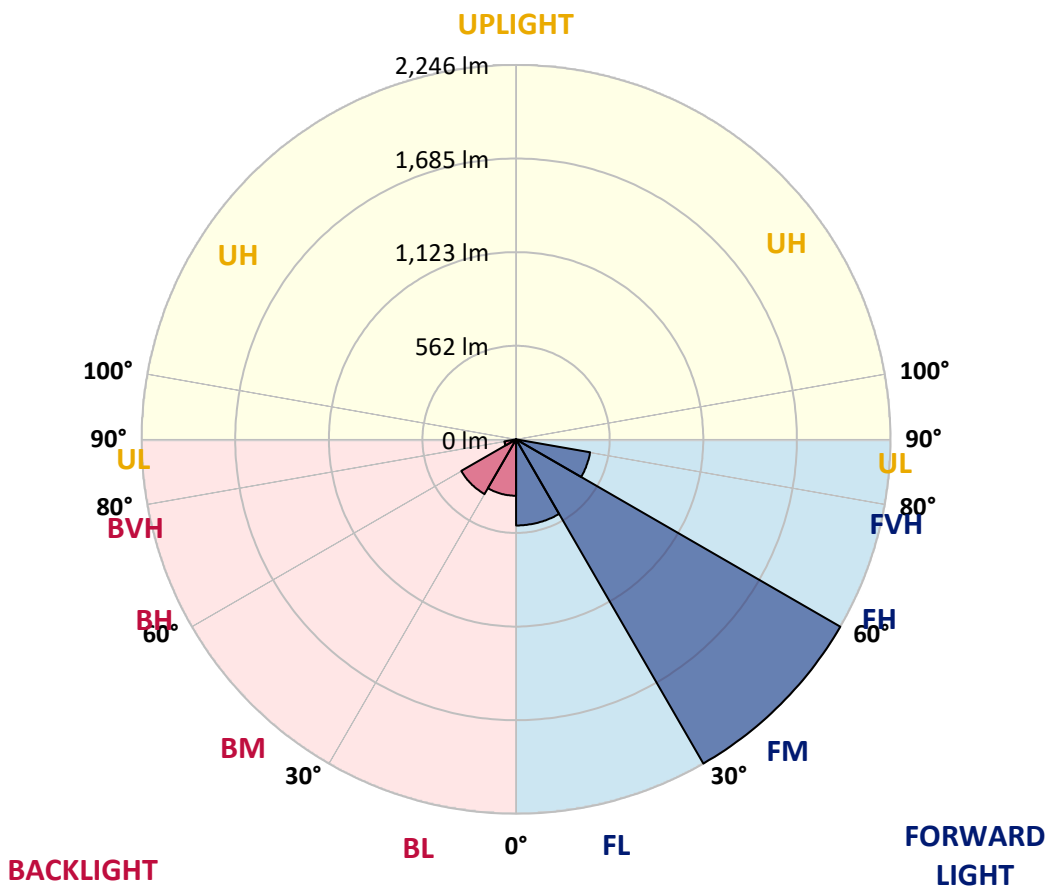
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.8	12.9			
FM (30°-60°)	2246.4	56.1			
FH (60°-80°)	451.1	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	338.2	8.4	B1/500		
BM (30°-60°)	379.4	9.5	B1/1000		
BH (60°-80°)	71.2	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°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1304.8	1305.8	1306.3	1319.5	1324.4	1343.9	1354.2	1359.6	1373.7	1390.3	1404.0
5°	1217.3	1215.9	1218.3	1234.9	1245.7	1274.5	1290.2	1300.9	1332.2	1371.3	1404.0
7.5°	1141.1	1144.0	1147.0	1165.0	1181.2	1212.5	1234.9	1251.1	1294.6	1352.7	1407.9
10°	1087.3	1087.3	1091.7	1112.3	1131.3	1169.9	1192.4	1212.9	1264.7	1336.1	1412.3
12.5°	1047.8	1048.3	1053.6	1077.1	1099.1	1139.1	1162.6	1182.6	1239.8	1319.5	1413.3
15°	1029.2	1027.7	1032.1	1057.0	1081.5	1119.1	1143.5	1163.1	1222.2	1310.2	1418.2
17.5°	1024.3	1023.3	1026.7	1051.2	1076.1	1112.8	1136.7	1156.3	1219.8	1313.1	1432.9
20°	1038.5	1036.5	1035.1	1056.1	1079.5	1115.7	1140.6	1162.6	1231.5	1329.3	1455.3
22.5°	1072.2	1072.2	1068.8	1079.0	1094.7	1127.4	1153.3	1182.2	1262.3	1361.5	1488.6
25°	1134.3	1129.4	1123.0	1127.4	1125.5	1146.0	1176.8	1216.9	1320.5	1414.8	1529.1
27.5°	1205.1	1209.5	1198.8	1199.3	1182.2	1174.8	1210.5	1271.1	1407.0	1490.0	1589.2
30°	1301.4	1298.0	1298.5	1297.0	1257.4	1222.7	1261.3	1342.0	1515.9	1604.9	1667.4
32.5°	1376.7	1381.5	1397.7	1407.0	1355.2	1299.4	1340.5	1438.2	1640.1	1735.8	1763.2
35°	1456.3	1465.1	1497.9	1528.1	1484.7	1420.6	1464.6	1565.8	1756.9	1865.3	1873.2
37.5°	1540.4	1558.0	1597.1	1650.3	1643.5	1586.8	1626.9	1715.8	1848.7	1943.5	1964.1
40°	1636.6	1653.7	1717.8	1794.5	1810.6	1797.9	1811.1	1862.9	1909.3	1947.0	2003.2
42.5°	1742.2	1765.7	1846.8	1949.4	2010.0	2021.2	1990.5	1985.1	1935.7	1907.9	1994.9
45°	1866.8	1894.2	1986.1	2119.0	2215.3	2230.4	2177.1	2108.2	1952.3	1879.0	1969.9
47.5°	2006.6	2032.5	2123.9	2283.7	2426.9	2432.7	2339.9	2228.9	2001.7	1912.3	1989.0
50°	2053.5	2069.6	2148.8	2336.5	2600.3	2645.3	2510.9	2364.8	2100.9	2010.0	2081.8
52.5°	1892.2	1898.6	1967.5	2157.1	2565.2	2854.0	2760.6	2567.6	2277.3	2159.1	2225.0
55°	1499.3	1489.1	1544.8	1718.7	2229.4	2811.5	2986.9	2886.2	2504.6	2334.0	2411.2
57.5°	1048.7	1036.5	1023.8	1141.6	1663.5	2383.4	2752.3	2930.7	2721.1	2507.5	2612.1
60°	862.1	850.3	788.8	734.5	1005.7	1711.4	2114.1	2449.8	2703.5	2498.7	2605.7
62.5°	744.8	737.9	713.0	639.2	591.8	976.9	1323.9	1645.4	2074.5	1962.1	1968.0
65°	585.0	583.0	600.1	607.9	523.4	540.5	675.4	855.2	1121.6	1057.5	1002.8
67.5°	399.8	395.4	427.6	525.8	503.4	426.6	395.4	398.8	485.3	296.6	235.6
70°	254.1	243.9	244.3	326.0	409.5	336.7	304.9	268.3	241.4	44.0	49.8
72.5°	162.7	156.4	134.4	147.1	189.6	164.2	165.7	142.7	95.3	23.5	27.4
75°	68.4	63.0	48.4	38.6	38.1	23.9	21.0	19.5	13.2	13.2	14.2
77.5°	0.5	0.0	0.0	0.5	1.0	0.5	0.5	1.0	2.0	2.9	3.4
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5	1404.5
2.5°	1412.3	1400.6	1413.8	1418.7	1418.2	1418.7	1404.5	1394.7	1394.2	1382.0	1376.2
5°	1417.7	1408.4	1418.2	1411.8	1396.7	1377.6	1352.2	1330.2	1320.5	1306.3	1299.4
7.5°	1428.0	1418.2	1416.7	1391.3	1353.7	1313.6	1268.7	1228.6	1207.1	1181.2	1182.6
10°	1435.3	1424.1	1405.0	1353.2	1290.6	1226.6	1159.7	1100.1	1062.4	1027.7	1021.9
12.5°	1438.2	1421.6	1377.1	1299.0	1211.0	1127.4	1029.2	944.2	885.5	840.1	833.7
15°	1443.6	1416.7	1341.5	1233.5	1112.8	994.5	869.4	753.1	675.4	623.1	627.5
17.5°	1451.9	1411.4	1301.4	1160.2	1007.2	840.1	671.0	537.6	466.2	435.9	436.4
20°	1463.6	1405.0	1257.4	1079.5	880.6	665.6	469.1	368.5	348.4	347.5	346.0
22.5°	1479.3	1398.6	1210.5	991.1	730.6	466.2	312.3	281.0	289.3	305.4	308.4
25°	1497.9	1390.8	1158.2	891.4	566.9	305.9	234.1	229.2	249.2	270.7	275.6
27.5°	1526.7	1386.9	1098.6	778.0	397.8	219.4	191.6	194.5	212.6	230.7	235.1
30°	1575.6	1394.2	1033.6	650.9	255.6	175.0	166.2	170.6	180.3	189.6	193.5
32.5°	1642.0	1415.8	970.5	512.2	182.3	152.0	150.0	152.5	156.4	161.8	163.2
35°	1719.7	1452.9	905.6	366.5	150.5	138.8	136.8	136.8	138.8	139.8	140.3
37.5°	1783.7	1492.0	844.5	243.9	134.9	128.5	125.6	124.1	123.6	124.6	125.1
40°	1811.6	1508.1	778.0	177.4	123.6	119.2	114.8	110.4	110.4	113.9	114.4
42.5°	1792.0	1490.0	701.3	146.6	115.8	109.5	102.6	98.7	100.7	104.1	105.1
45°	1750.5	1445.6	616.7	129.5	108.0	99.7	91.9	89.4	91.4	95.8	96.8
47.5°	1743.7	1416.2	515.6	118.3	99.7	91.4	83.1	80.6	83.1	86.5	87.5
50°	1811.6	1441.7	403.2	108.5	91.9	82.6	75.7	73.3	74.8	76.7	77.7
52.5°	1935.7	1536.0	325.5	99.2	82.6	73.8	69.4	66.5	66.5	68.4	68.9
55°	2119.0	1700.7	281.0	88.5	71.8	67.0	63.0	60.1	60.1	61.1	61.6
57.5°	2330.1	1900.0	291.3	74.3	63.0	60.6	57.2	54.7	55.7	55.7	55.7
60°	2300.8	1885.4	311.8	62.6	55.7	54.7	51.8	50.8	53.3	51.3	50.3
62.5°	1694.8	1302.4	163.2	51.3	47.9	46.9	45.0	46.9	50.3	45.0	43.0
65°	823.0	630.4	65.5	42.0	40.6	39.6	38.6	41.5	43.5	35.2	33.2
67.5°	193.5	157.4	42.5	35.7	33.7	31.8	32.7	33.2	31.8	23.9	23.0
70°	50.3	49.4	33.2	29.8	26.9	24.9	24.9	24.4	21.0	15.1	14.2
72.5°	27.4	26.9	23.9	22.5	18.6	16.6	17.1	15.1	11.7	8.8	8.3
75°	13.7	14.7	13.7	12.7	10.3	9.3	9.3	8.3	5.9	3.4	3.4
77.5°	2.9	3.4	3.4	2.9	2.4	2.0	2.0	2.4	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)