

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: P631051

Luminaire Tested: GWS-SA1E-830-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631051  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1E-830-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

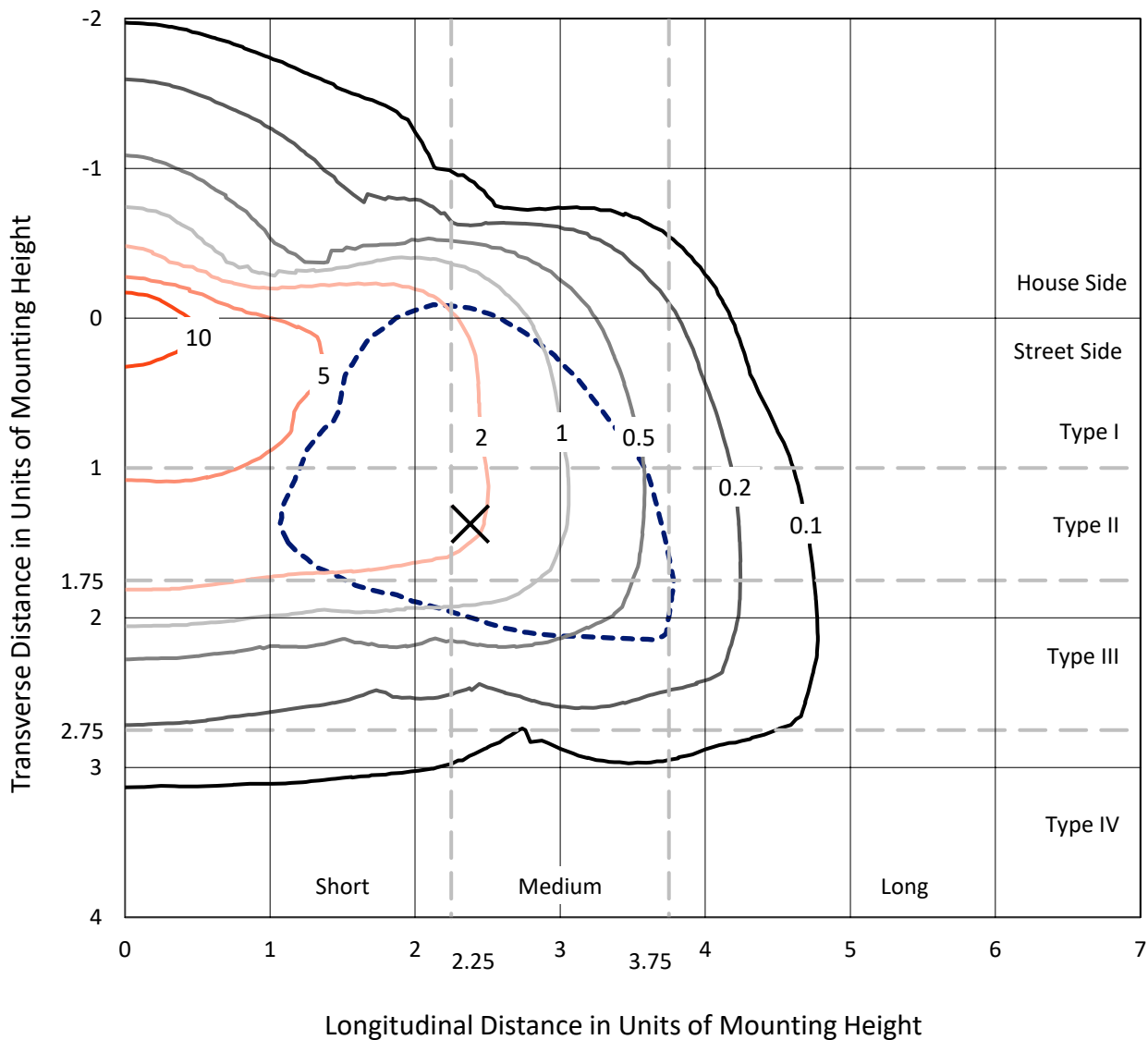
Lumens per Lamp: N/A  
Luminaire Lumens: 5898.1 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 58.4  
Input Voltage (V): 120  
Input Current (Ain): 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

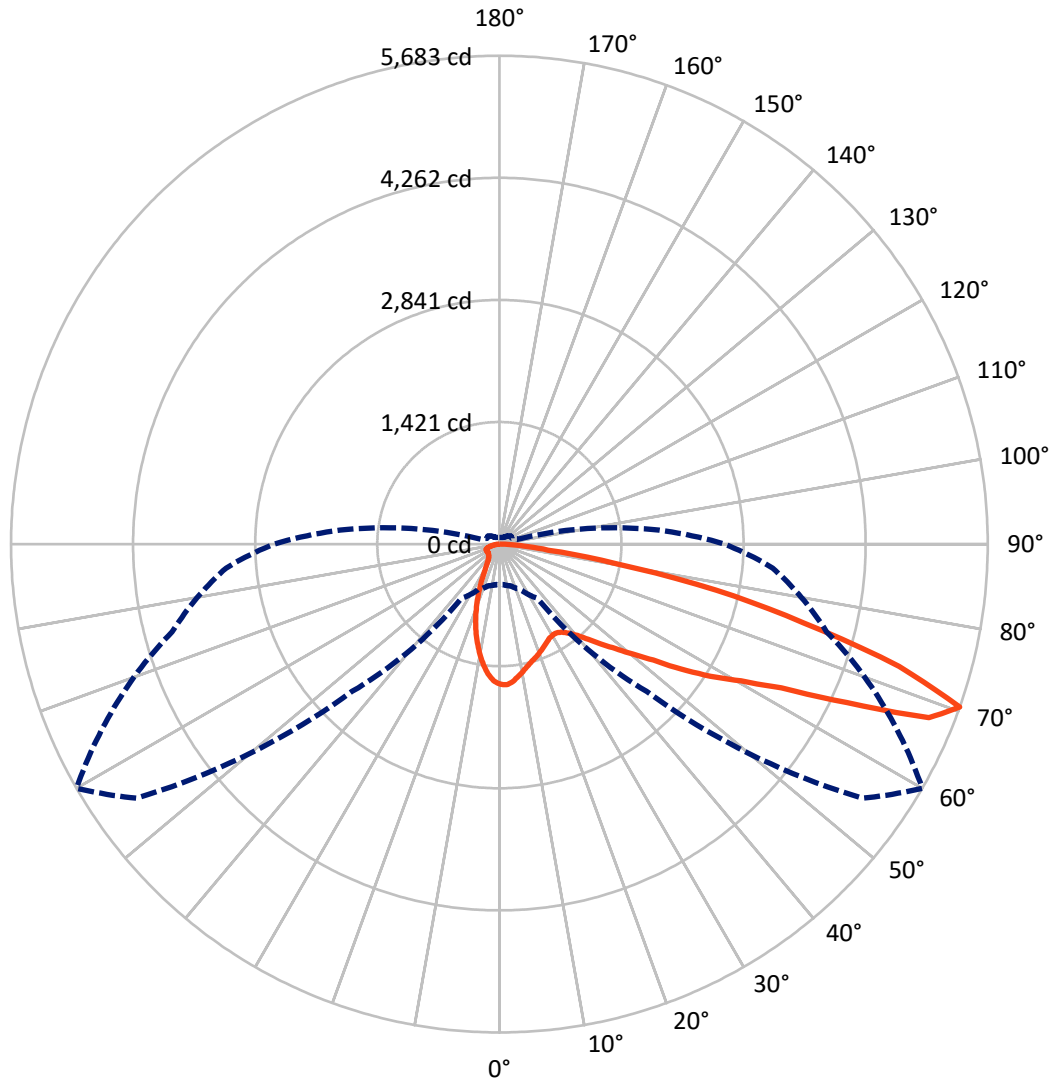
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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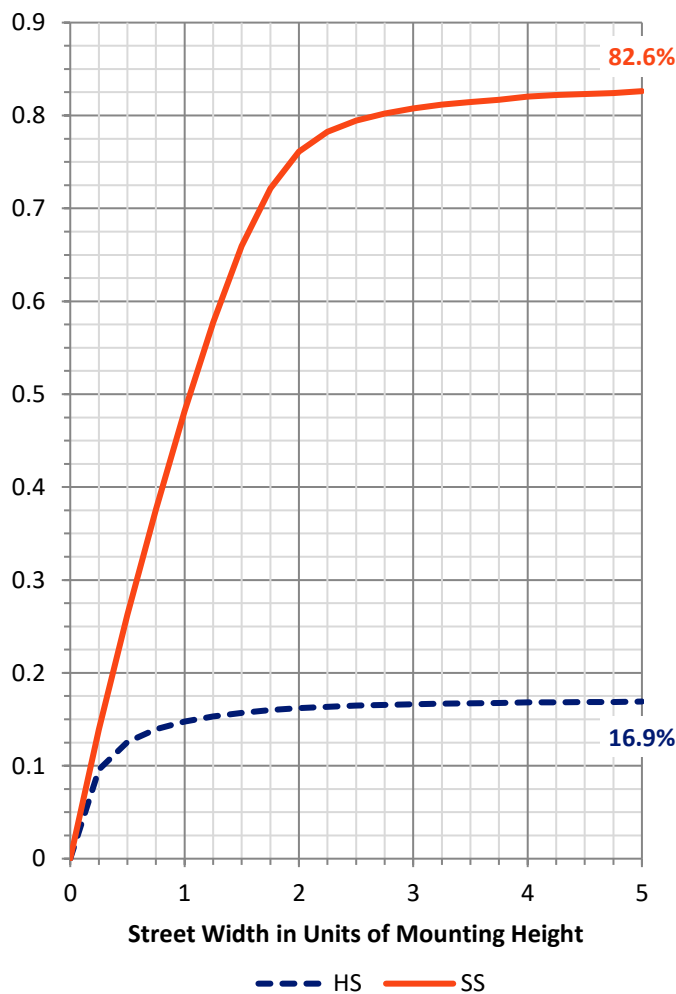
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1008.7	0.0	1008.7
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	4889.4	0.0	4889.4
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	5898.1	0.0	5898.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.7	2.4
10°-20°	315.2	5.3
20°-30°	403.6	6.8
30°-40°	530.5	9.0
40°-50°	769.6	13.0
50°-60°	1200.8	20.4
60°-70°	1572.0	26.7
70°-80°	869.3	14.7
80°-90°	96.5	1.6
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°	5898.1	100.0
0°-180°	5898.1	100.0

**Coefficient of Utilization**



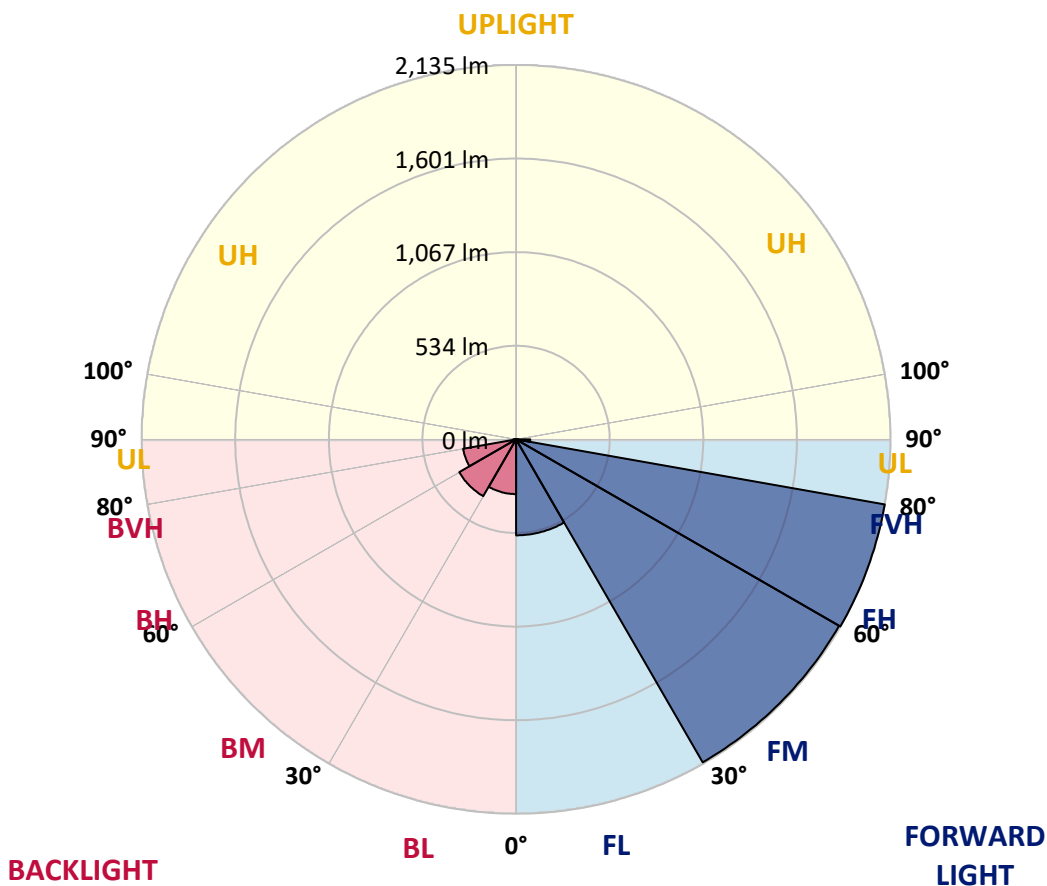
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	547.4	9.3			
FM (30°-60°)	2126.8	36.1			
FH (60°-80°)	2134.8	36.2			G2/5000
FVH (80°-90°)	80.4	1.4			G1/100
BL (0°-30°)	312.1	5.3	B1/500		
BM (30°-60°)	374.0	6.3	B1/1000		
BH (60°-80°)	306.5	5.2	B1/500		G1/500
BVH (80°-90°)	16.1	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-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1
2.5°	1609.2	1610.9	1615.7	1622.6	1629.5	1632.9	1641.6	1639.0	1637.3	1633.8	1629.5
5°	1538.0	1541.5	1545.8	1559.2	1574.3	1586.3	1605.8	1607.9	1608.8	1610.5	1603.6
7.5°	1447.4	1448.2	1458.6	1476.3	1496.1	1516.9	1549.2	1558.3	1566.1	1574.7	1569.1
10°	1347.3	1349.4	1357.2	1382.7	1416.7	1447.4	1491.0	1506.1	1522.5	1541.5	1533.7
12.5°	1265.3	1265.7	1278.2	1305.4	1342.5	1383.9	1438.3	1456.4	1478.0	1507.8	1500.9
15°	1200.1	1200.1	1211.8	1235.1	1277.8	1326.6	1391.3	1414.6	1443.9	1484.1	1472.0
17.5°	1148.3	1148.8	1156.1	1180.7	1218.7	1272.6	1349.4	1380.9	1413.3	1466.4	1448.2
20°	1121.1	1119.0	1120.3	1135.4	1167.7	1220.0	1307.6	1344.2	1387.8	1454.3	1426.7
22.5°	1119.8	1116.0	1110.3	1111.6	1130.6	1173.8	1262.7	1307.1	1361.9	1444.4	1404.7
25°	1141.9	1137.5	1127.6	1116.4	1114.7	1140.6	1220.4	1270.9	1335.2	1440.0	1383.5
27.5°	1179.0	1175.9	1163.0	1146.2	1128.5	1127.6	1188.5	1241.1	1315.8	1444.4	1368.4
30°	1228.2	1223.0	1214.8	1193.2	1166.4	1138.8	1175.9	1225.1	1302.8	1458.2	1361.9
32.5°	1283.8	1280.8	1273.0	1251.5	1223.0	1179.0	1185.9	1228.6	1302.8	1482.3	1363.2
35°	1342.9	1342.5	1342.5	1328.3	1296.8	1242.0	1225.1	1257.9	1322.7	1521.2	1377.0
37.5°	1400.3	1399.9	1413.7	1418.9	1383.1	1324.0	1292.0	1316.6	1366.3	1578.6	1411.1
40°	1447.0	1448.7	1478.9	1504.8	1484.9	1430.1	1385.2	1397.8	1437.0	1660.1	1470.7
42.5°	1494.0	1498.7	1544.0	1589.8	1597.6	1550.1	1504.8	1512.1	1538.4	1768.0	1559.6
45°	1545.3	1547.5	1610.9	1674.8	1712.3	1684.3	1647.2	1657.1	1663.2	1901.4	1692.1
47.5°	1595.0	1600.6	1682.6	1770.2	1841.4	1838.8	1818.1	1815.1	1816.3	2063.6	1848.7
50°	1662.7	1670.9	1767.2	1872.9	1977.3	2025.2	2031.3	2008.4	1998.9	2244.0	2043.8
52.5°	1791.3	1791.3	1877.6	1981.6	2121.9	2240.6	2281.1	2243.6	2213.4	2434.7	2250.9
55°	1952.3	1959.2	2027.8	2112.0	2289.7	2467.1	2604.3	2562.9	2477.5	2642.3	2468.0
57.5°	2023.9	2032.5	2141.3	2272.1	2509.4	2724.7	2915.0	2900.4	2775.7	2858.1	2693.2
60°	1894.5	1912.6	2062.3	2281.5	2708.3	3140.3	3274.5	3231.8	3053.6	3084.6	2937.5
62.5°	1580.3	1600.1	1766.3	2072.3	2680.7	3589.5	3841.1	3683.6	3400.5	3370.8	3262.9
65°	942.9	942.0	1141.9	1547.5	2340.2	3714.3	4737.9	4444.0	3936.5	3763.5	3597.7
67.5°	599.4	598.1	640.0	819.9	1557.4	3408.7	5314.4	5390.8	4664.5	4052.2	3625.4
70°	473.0	472.5	502.7	584.7	770.3	2425.7	5153.9	5682.5	5104.2	3942.1	3192.1
72.5°	344.8	345.7	392.3	489.8	594.2	1217.8	4173.4	4862.2	4694.7	3479.9	2591.4
75°	247.7	249.0	277.0	375.0	548.1	665.9	2775.2	3656.0	3571.8	2789.5	1782.7
77.5°	157.5	159.2	183.8	262.8	442.8	537.7	1682.6	2581.0	2376.5	1571.7	633.9
80°	96.2	101.8	122.6	195.9	353.9	403.5	841.1	1359.8	1190.2	431.1	213.2
82.5°	49.6	53.9	73.8	121.3	243.8	354.3	476.0	571.4	368.5	180.4	113.5
85°	15.5	18.1	25.9	49.2	116.1	219.7	315.0	284.0	169.2	85.0	52.6
87.5°	3.9	3.9	4.3	4.3	4.7	9.9	60.8	64.3	44.9	26.8	21.6
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°	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1	1632.1
2.5°	1620.9	1610.5	1606.2	1605.8	1595.0	1579.4	1569.1	1561.7	1557.4	1556.6	1556.6
5°	1591.9	1578.6	1560.9	1547.5	1518.6	1489.2	1464.6	1450.8	1434.9	1432.7	1432.3
7.5°	1553.5	1534.1	1500.5	1462.9	1412.4	1363.7	1322.2	1294.2	1266.1	1261.0	1259.2
10°	1512.1	1485.8	1428.4	1362.4	1286.8	1213.9	1150.5	1100.9	1068.1	1044.8	1040.4
12.5°	1471.1	1436.2	1352.0	1253.6	1150.1	1050.4	955.0	873.9	815.2	781.1	775.0
15°	1432.7	1383.9	1268.7	1143.1	1008.5	872.1	737.1	631.8	549.3	520.0	513.1
17.5°	1397.8	1336.9	1188.0	1028.8	860.9	682.7	529.1	435.4	387.1	372.4	369.0
20°	1362.8	1288.6	1106.0	908.4	704.3	504.5	386.7	342.6	324.5	318.9	317.2
22.5°	1325.3	1235.5	1016.7	789.7	545.9	377.6	316.3	296.9	291.3	291.7	291.3
25°	1287.7	1181.6	923.1	660.7	406.5	306.4	276.2	268.8	270.1	274.0	274.9
27.5°	1256.6	1133.7	831.1	519.1	317.6	263.7	249.4	249.0	253.7	258.9	259.8
30°	1234.2	1090.9	740.5	399.2	261.5	234.3	228.7	231.3	236.9	240.8	242.1
32.5°	1218.2	1054.2	643.9	313.7	229.1	213.6	211.0	213.6	217.1	220.9	221.8
35°	1212.6	1027.5	548.9	255.9	207.1	198.5	196.8	198.1	199.8	202.0	202.8
37.5°	1225.1	1014.1	449.7	222.7	193.8	188.6	186.0	185.1	185.6	186.4	186.9
40°	1262.3	1020.2	368.5	203.3	185.1	180.4	176.1	174.3	173.9	174.8	174.3
42.5°	1326.1	1045.6	309.8	192.0	178.2	171.3	166.6	164.8	164.8	167.0	167.0
45°	1419.8	1095.7	267.6	183.8	172.2	163.6	158.4	157.5	159.2	162.7	163.1
47.5°	1557.0	1169.0	242.1	177.8	166.6	156.6	151.5	151.0	154.5	160.1	160.5
50°	1719.7	1274.8	228.3	173.5	162.7	151.0	145.9	146.3	150.2	156.2	157.5
52.5°	1915.6	1418.9	229.1	171.8	160.5	147.6	142.4	141.5	145.4	151.5	152.8
55°	2118.0	1594.1	246.0	172.2	157.5	145.9	139.0	135.9	139.4	143.7	144.1
57.5°	2340.7	1791.8	287.8	171.3	153.6	144.1	135.9	129.0	131.2	133.8	135.1
60°	2591.8	2024.3	378.0	173.0	151.9	140.3	129.9	120.8	120.4	122.1	122.6
62.5°	2927.6	2340.7	479.4	176.1	155.8	135.5	120.8	111.3	109.6	110.5	110.9
65°	3184.3	2491.7	447.5	173.5	164.0	132.1	112.2	102.3	98.8	98.0	98.0
67.5°	3079.9	2291.9	311.6	166.6	167.9	132.5	105.3	92.8	88.5	86.3	85.9
70°	2620.7	1861.7	216.6	159.7	163.6	131.6	98.0	85.0	79.4	76.4	76.0
72.5°	2070.5	1421.5	175.2	145.9	148.4	118.7	87.2	76.4	71.6	67.8	67.8
75°	1332.6	867.4	146.3	129.9	121.3	92.3	75.5	68.2	63.4	59.6	59.6
77.5°	448.4	321.9	113.5	110.0	90.6	69.5	63.4	58.7	54.8	51.4	50.9
80°	182.1	152.8	83.3	83.3	63.4	53.1	49.6	47.5	44.9	40.6	40.6
82.5°	105.7	92.8	58.3	50.5	42.3	36.7	34.5	32.4	32.4	29.3	29.3
85°	50.9	51.4	35.0	31.1	24.2	21.1	20.3	19.0	18.6	16.8	16.4
87.5°	27.6	28.1	17.7	13.8	9.5	8.2	6.9	6.5	6.0	5.6	5.6
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)