

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: P631542

Luminaire Tested: GWS-SA1F-830-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631542  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-830-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

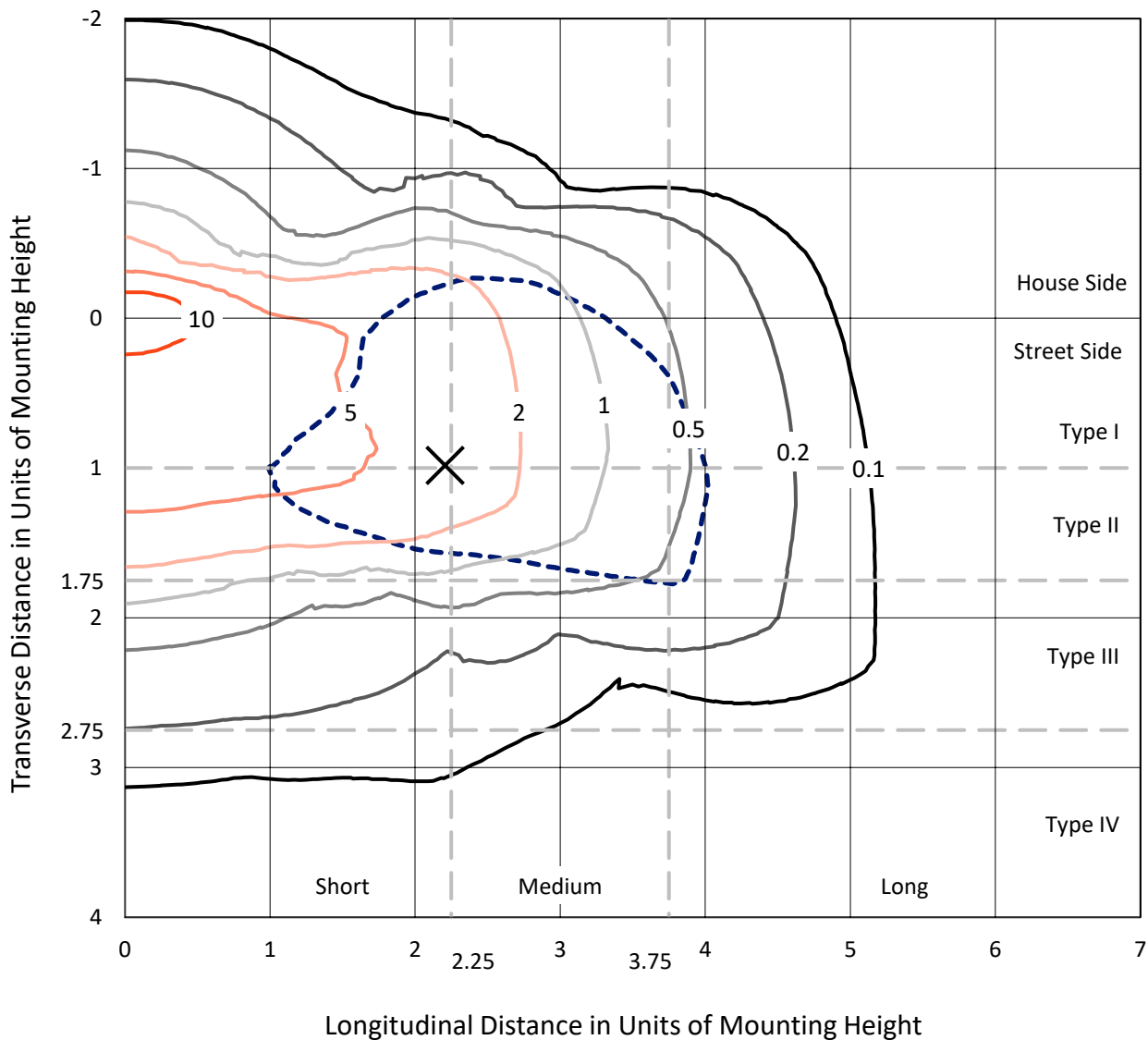
Lumens per Lamp: N/A  
Luminaire Lumens: 6576.8 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

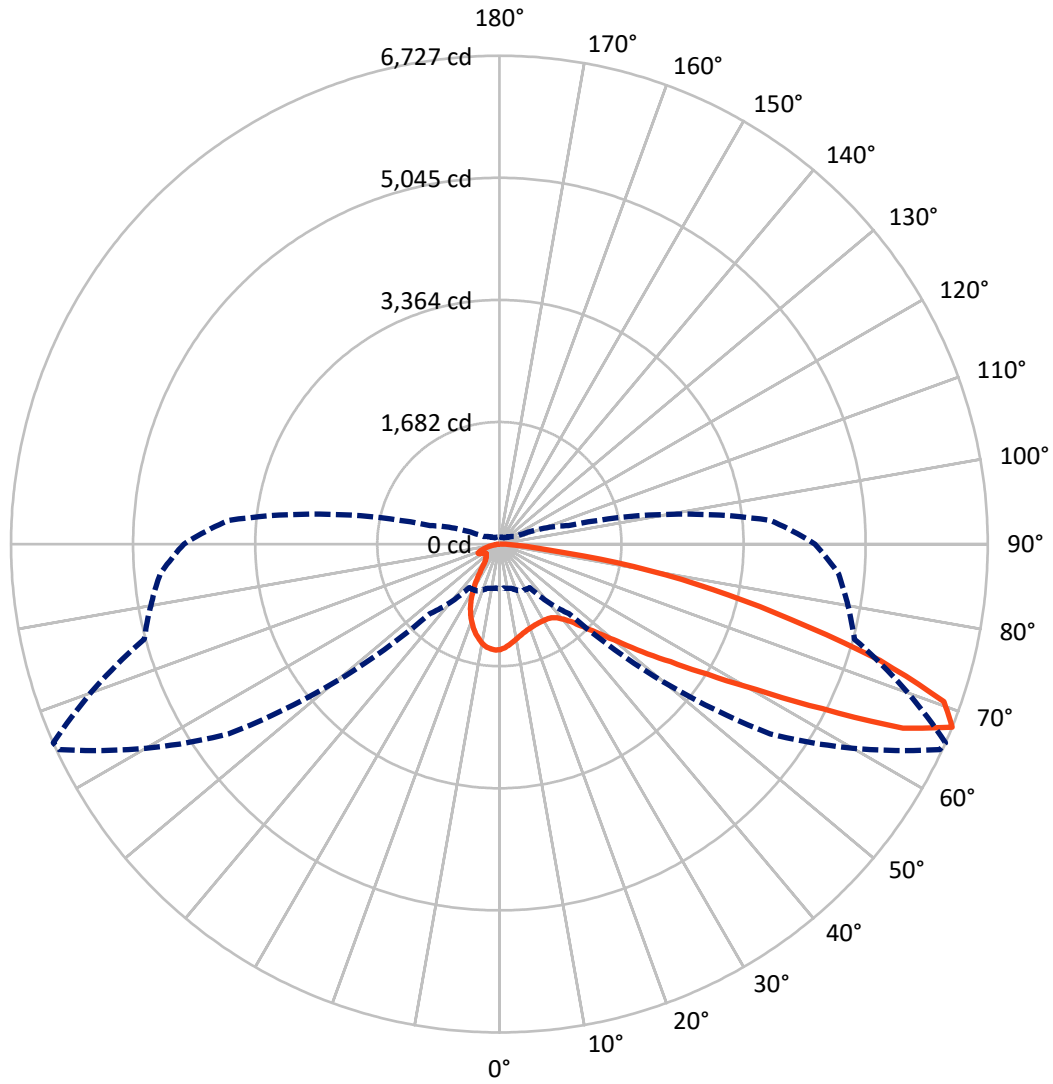
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical



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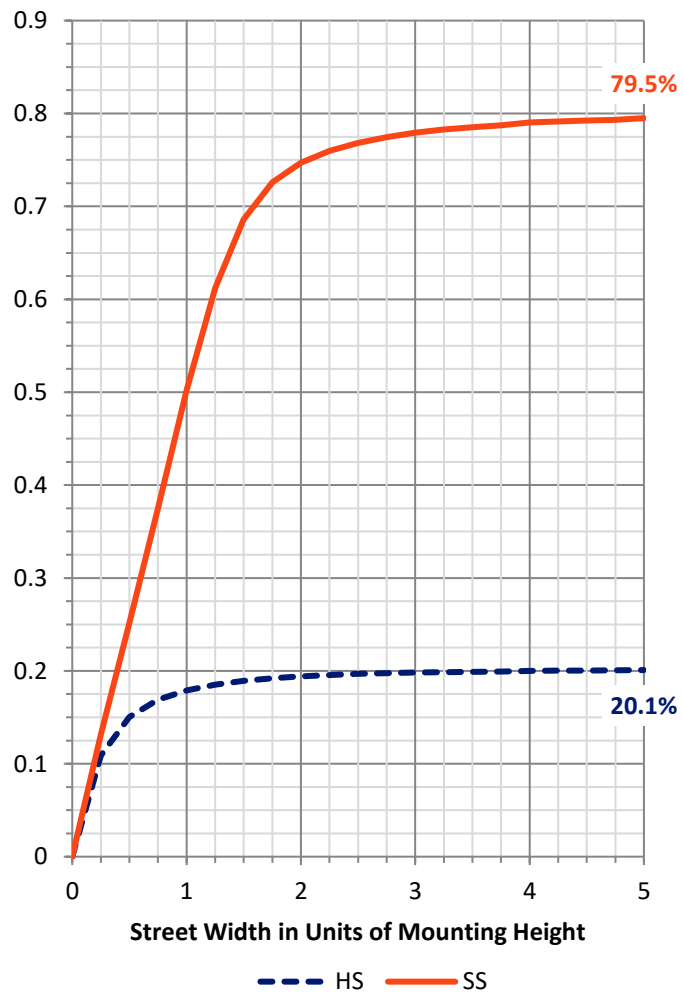
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1334.6	0.0	1334.6
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	5242.2	0.0	5242.2
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	6576.8	0.0	6576.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.5	1.9
10°-20°	313.5	4.8
20°-30°	430.9	6.6
30°-40°	589.0	9.0
40°-50°	892.6	13.6
50°-60°	1387.5	21.1
60°-70°	1689.3	25.7
70°-80°	1029.0	15.6
80°-90°	117.5	1.8
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°	6576.8	100.0
0°-180°	6576.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631542

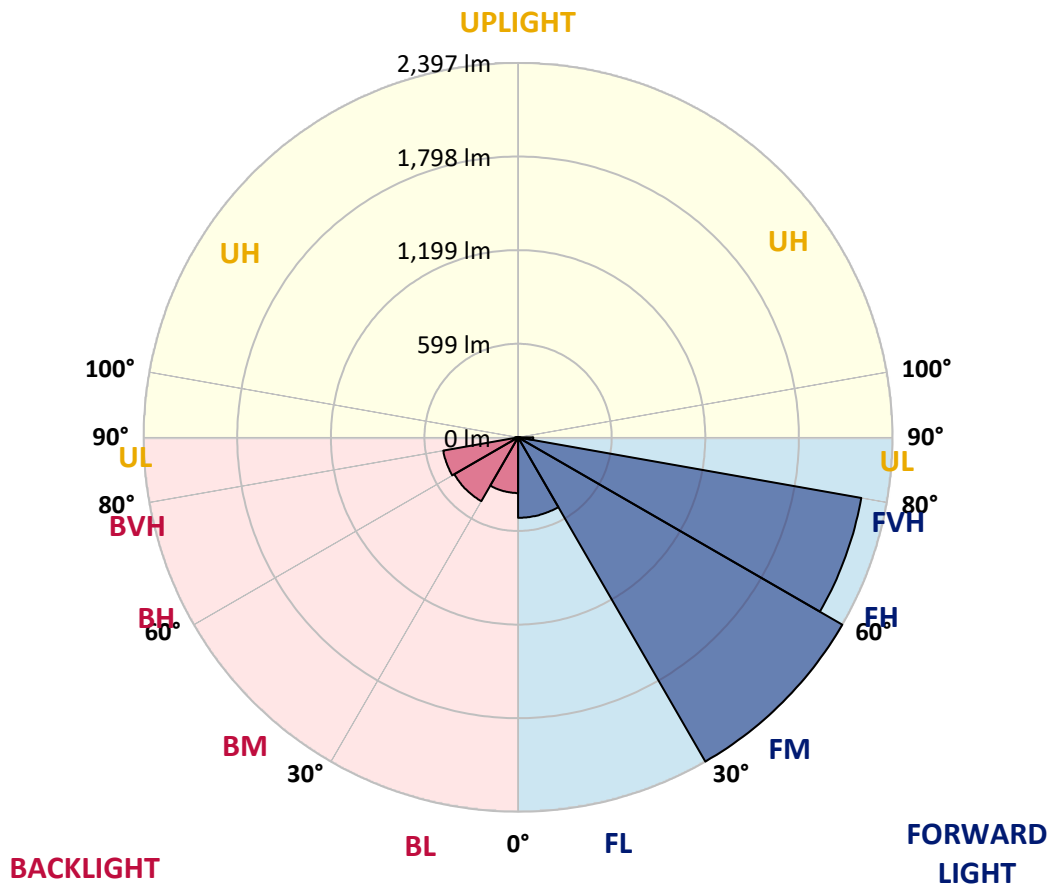
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	515.3	7.8			
FM (30°-60°)	2397.5	36.5			
FH (60°-80°)	2231.7	33.9			G2/5000
FVH (80°-90°)	97.7	1.5			G1/100
BL (0°-30°)	356.5	5.4	B1/500		
BM (30°-60°)	471.6	7.2	B1/1000		
BH (60°-80°)	486.6	7.4	B1/500		G1/500
BVH (80°-90°)	19.8	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3
2.5°	1361.2	1366.0	1363.1	1381.3	1382.3	1405.3	1418.3	1429.3	1430.3	1444.6	1454.2
5°	1268.1	1271.0	1271.0	1288.2	1299.8	1330.5	1360.2	1391.9	1394.3	1428.8	1455.2
7.5°	1192.8	1195.6	1193.7	1216.7	1231.6	1265.7	1303.6	1352.1	1356.8	1412.5	1458.6
10°	1133.7	1132.8	1137.6	1158.7	1177.9	1218.7	1260.9	1316.1	1323.3	1393.8	1462.4
12.5°	1093.4	1094.4	1097.3	1119.4	1140.0	1180.3	1223.9	1283.9	1291.6	1372.2	1460.5
15°	1074.3	1072.3	1074.7	1094.9	1114.6	1150.1	1195.2	1257.1	1264.7	1353.0	1461.0
17.5°	1069.9	1068.5	1068.0	1082.4	1097.3	1130.4	1173.6	1236.4	1244.6	1340.5	1463.8
20°	1083.4	1081.4	1076.2	1082.4	1088.6	1116.5	1158.2	1221.5	1230.7	1332.4	1469.6
22.5°	1120.3	1117.0	1108.8	1101.1	1093.0	1109.8	1148.6	1210.5	1219.6	1327.1	1475.4
25°	1176.4	1173.6	1164.9	1147.7	1117.9	1115.0	1146.7	1205.7	1214.8	1323.3	1477.8
27.5°	1253.7	1249.4	1240.7	1215.8	1167.3	1134.7	1153.9	1205.2	1213.9	1318.9	1475.4
30°	1345.3	1342.5	1337.7	1307.4	1242.7	1176.4	1170.2	1209.1	1215.8	1316.5	1470.6
32.5°	1438.4	1435.5	1439.4	1425.0	1345.3	1245.5	1205.7	1219.6	1224.4	1316.1	1466.2
35°	1520.5	1523.8	1551.6	1554.0	1475.8	1339.1	1261.8	1244.1	1245.1	1325.7	1468.2
37.5°	1606.3	1619.3	1655.8	1686.9	1621.7	1462.9	1345.3	1290.2	1289.2	1350.1	1480.2
40°	1720.0	1725.8	1772.3	1830.9	1790.1	1632.7	1463.8	1365.5	1358.8	1400.0	1512.3
42.5°	1830.9	1844.8	1919.2	1986.3	1972.9	1824.2	1613.1	1478.2	1466.2	1488.3	1578.5
45°	1971.9	1985.4	2068.9	2155.2	2179.7	2040.5	1804.0	1638.5	1626.5	1621.2	1699.9
47.5°	2113.0	2126.9	2201.8	2326.5	2412.4	2311.2	2052.5	1850.1	1830.4	1809.8	1883.2
50°	2208.0	2224.3	2295.8	2445.5	2647.0	2648.9	2347.1	2127.4	2102.4	2069.8	2141.3
52.5°	2204.6	2215.2	2283.3	2456.0	2815.9	3037.1	2741.5	2480.5	2460.4	2389.4	2451.7
55°	2031.4	2047.3	2115.9	2331.8	2834.1	3405.1	3321.1	2897.0	2861.0	2733.8	2802.5
57.5°	1683.6	1697.0	1766.1	2032.4	2672.4	3593.6	4057.1	3427.6	3378.2	3109.0	3188.2
60°	1271.0	1254.7	1287.3	1520.5	2285.7	3598.4	4706.7	4147.3	4064.8	3510.1	3576.4
62.5°	953.8	937.5	944.7	1010.4	1549.7	3307.7	5077.1	5131.8	4995.6	3963.1	3950.1
65°	753.8	744.6	765.3	810.4	903.4	2518.9	5080.0	6196.5	6110.6	4488.0	4333.5
67.5°	614.1	608.4	629.5	713.0	732.6	1353.5	4555.1	6693.6	6727.1	5062.8	4689.0
70°	494.7	486.0	519.1	629.0	681.3	819.0	3263.1	6440.2	6494.4	5405.3	4588.7
72.5°	341.6	342.1	358.9	509.5	657.8	707.2	1845.8	5362.6	5480.2	5094.9	4034.1
75°	230.3	232.2	237.0	336.3	606.0	686.1	983.6	4060.0	4143.0	4211.1	3334.5
77.5°	139.1	140.1	151.1	203.4	417.9	640.5	666.4	2943.0	3008.3	2776.1	2066.9
80°	80.6	84.0	94.0	136.3	282.1	481.2	515.8	1804.5	1878.4	1234.0	656.8
82.5°	35.5	37.9	51.3	79.2	164.6	409.3	402.5	713.0	702.4	344.0	227.9
85°	6.2	7.7	11.0	24.9	60.5	215.9	312.3	314.7	296.0	130.5	94.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	47.0	84.4	84.0	36.9	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631542  
 CATALOG NUMBER: GWS-SA1F-830-U-SL2-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3	1453.3
2.5°	1460.5	1447.5	1459.0	1460.5	1458.1	1456.2	1441.8	1429.3	1427.9	1414.4	1414.4
5°	1465.8	1453.8	1459.5	1448.5	1431.2	1413.5	1382.8	1361.6	1352.1	1334.8	1334.8
7.5°	1473.0	1460.5	1453.8	1426.4	1386.1	1347.3	1297.8	1256.6	1239.8	1215.3	1214.4
10°	1479.7	1463.8	1440.8	1387.6	1323.3	1261.4	1189.4	1130.9	1091.0	1061.8	1061.8
12.5°	1479.2	1458.6	1413.0	1334.3	1245.5	1155.8	1059.9	971.6	918.8	873.2	870.3
15°	1478.2	1449.9	1377.5	1272.4	1154.9	1030.6	900.1	784.9	706.7	662.1	658.3
17.5°	1477.3	1438.9	1337.7	1201.9	1044.5	875.1	702.9	578.1	512.9	485.5	486.5
20°	1477.3	1426.4	1295.0	1120.8	917.4	689.0	515.8	425.1	408.8	410.2	411.7
22.5°	1473.0	1411.1	1247.5	1032.5	775.8	506.7	380.5	349.8	358.4	371.8	373.8
25°	1462.9	1385.6	1192.3	934.6	607.4	369.0	310.4	304.7	320.5	337.3	342.1
27.5°	1447.0	1356.4	1130.4	820.0	447.2	296.5	273.0	272.5	285.0	297.5	301.8
30°	1430.3	1323.7	1065.1	692.3	323.9	258.1	249.0	249.0	255.2	262.9	262.0
32.5°	1410.6	1290.6	995.1	559.4	263.9	236.5	233.7	232.2	233.2	236.1	236.1
35°	1393.8	1261.4	923.1	418.9	236.5	224.5	221.7	218.3	216.9	214.9	215.9
37.5°	1387.6	1238.3	848.7	315.7	223.1	215.9	211.1	206.3	203.0	202.0	201.5
40°	1397.6	1228.7	774.4	260.0	213.5	206.8	201.5	195.3	192.4	192.4	192.4
42.5°	1437.0	1235.9	698.6	235.1	206.8	199.1	191.4	185.7	184.7	185.7	186.2
45°	1508.9	1263.8	619.9	222.6	201.0	191.4	182.3	178.0	178.0	179.0	179.0
47.5°	1637.5	1336.7	542.2	214.9	195.3	185.2	175.6	171.3	170.8	171.8	171.8
50°	1860.1	1468.2	472.1	209.7	191.0	180.4	170.8	165.0	163.6	163.1	163.1
52.5°	2140.8	1696.1	427.5	205.8	185.7	175.1	165.5	157.9	155.0	153.5	153.5
55°	2480.0	1999.8	427.5	203.0	179.0	168.9	157.9	150.2	145.9	143.9	143.9
57.5°	2864.4	2353.4	501.4	200.6	173.7	161.7	149.7	142.0	137.2	134.3	134.3
60°	3255.4	2727.1	684.2	197.2	168.9	152.6	140.6	133.4	127.1	123.8	123.3
62.5°	3660.8	3138.8	925.0	199.1	165.5	143.9	131.0	122.8	117.5	114.2	113.7
65°	4032.2	3530.8	1135.7	214.0	166.0	136.3	119.9	112.8	108.4	104.1	103.6
67.5°	4347.4	3747.2	987.9	244.2	176.1	127.1	108.9	101.7	97.9	95.0	94.5
70°	4126.7	3417.1	560.4	262.9	190.0	117.5	96.4	91.6	87.8	85.9	85.4
72.5°	3528.9	2893.1	374.7	232.2	173.2	105.1	84.9	81.1	78.2	75.8	75.3
75°	2858.6	2294.4	286.4	190.5	134.8	85.4	72.9	70.0	67.2	64.8	64.3
77.5°	1691.3	1325.7	211.1	150.7	95.0	66.7	60.5	58.1	55.2	53.3	52.8
80°	539.8	460.6	133.9	103.6	62.9	51.3	46.5	44.6	41.7	39.3	38.9
82.5°	205.8	178.0	71.0	52.8	41.7	35.0	31.2	29.3	27.3	24.9	24.5
85°	91.2	85.4	39.3	28.3	22.6	17.3	15.4	14.4	12.0	10.1	9.6
87.5°	32.1	32.1	16.8	8.2	4.8	2.4	1.4	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)