

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: P634602

Luminaire Tested: GWS-SA3C-722-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3C-722-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

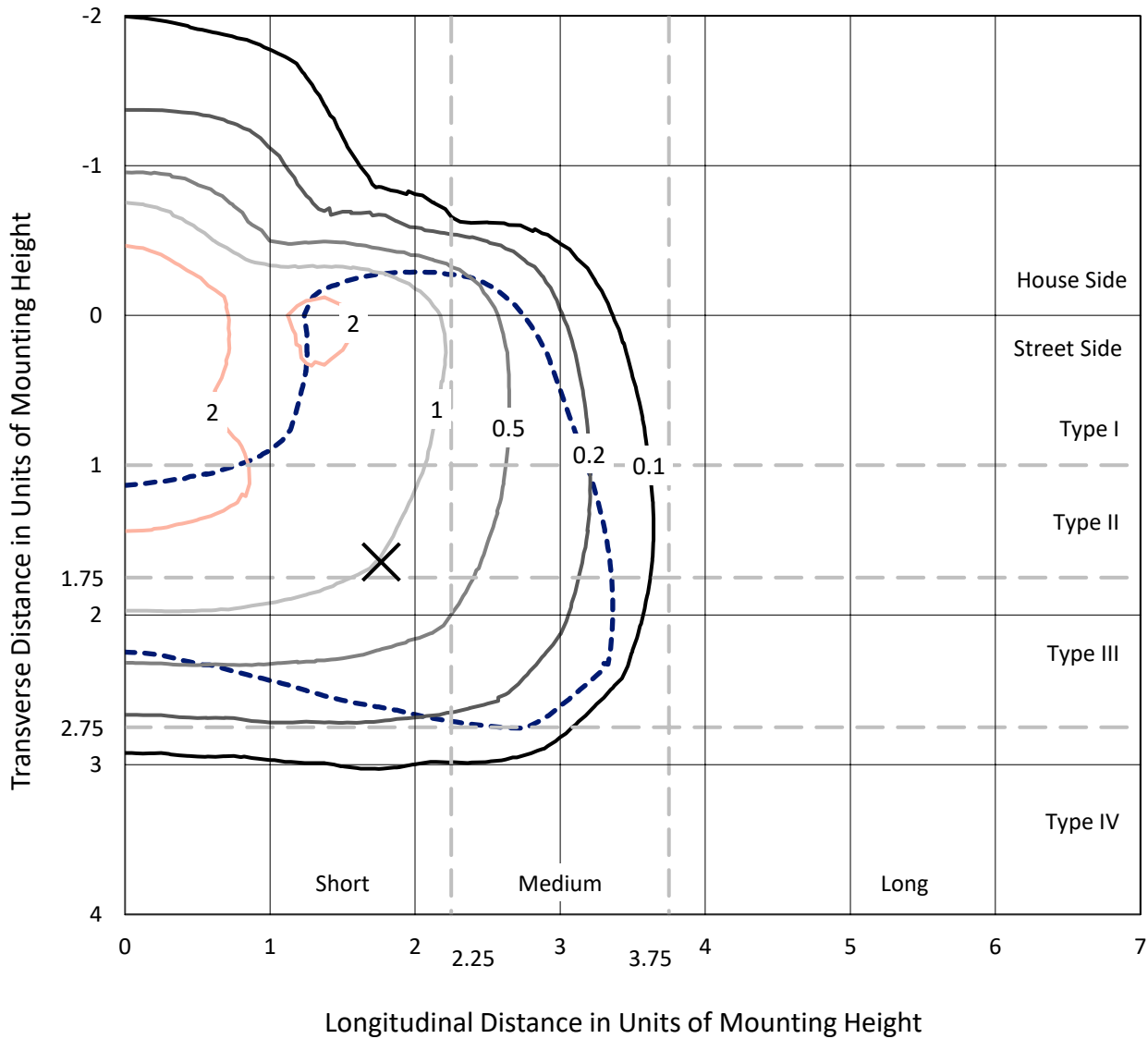
Lumens per Lamp: N/A  
Luminaire Lumens: 10187.1 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 93  
Input Voltage (V): 120  
Input Current (Ain): 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

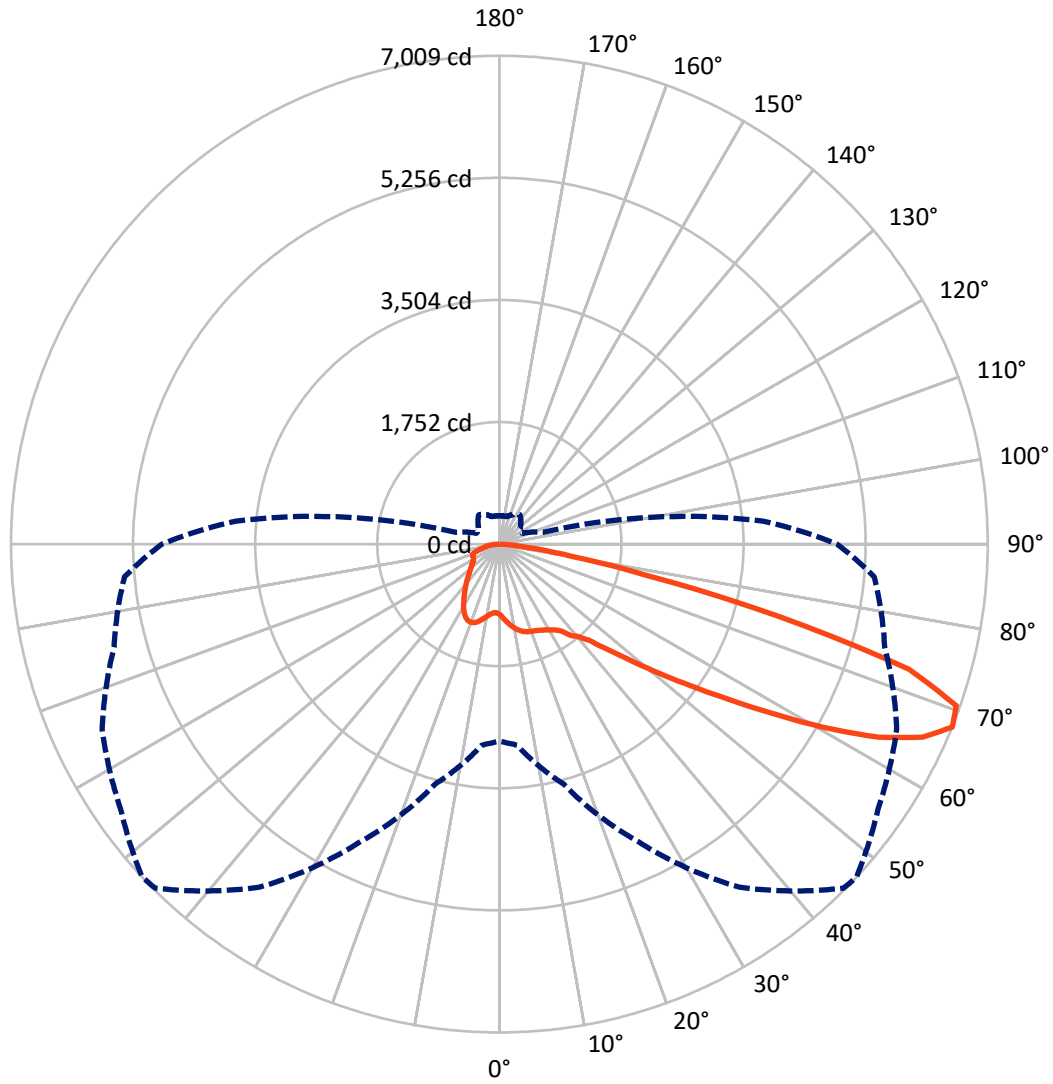
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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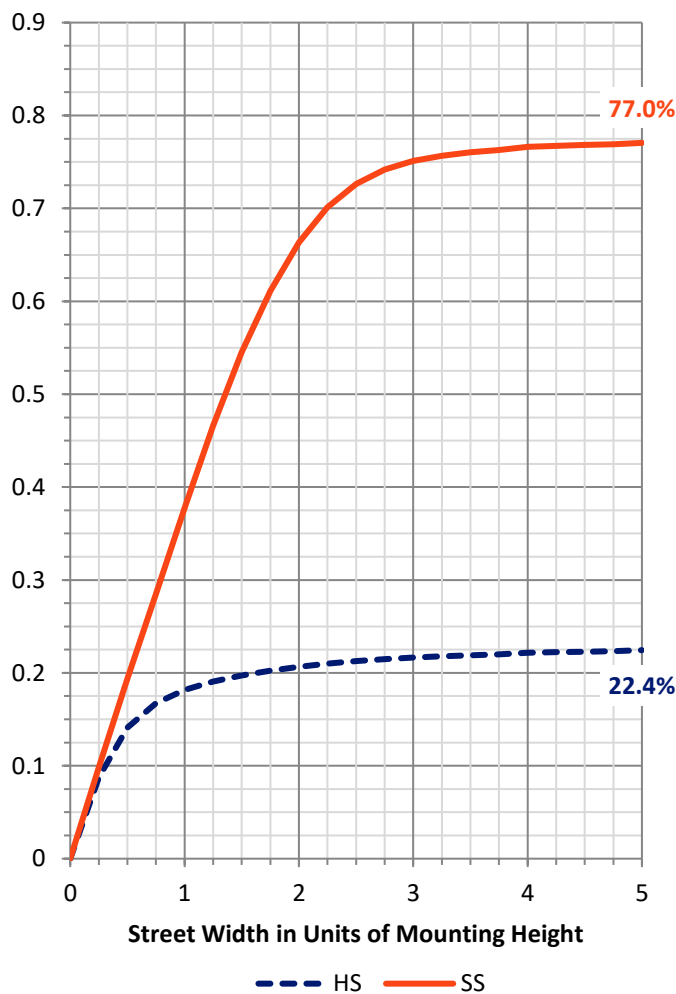
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2321.7	0.0	2321.7
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	7865.4	0.0	7865.4
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	10187.1	0.0	10187.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.2	1.0
10°-20°	343.9	3.4
20°-30°	584.5	5.7
30°-40°	856.2	8.4
40°-50°	1304.5	12.8
50°-60°	2334.0	22.9
60°-70°	3114.5	30.6
70°-80°	1408.4	13.8
80°-90°	138.0	1.4
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°	10187.1	100.0
0°-180°	10187.1	100.0

**Coefficient of Utilization**



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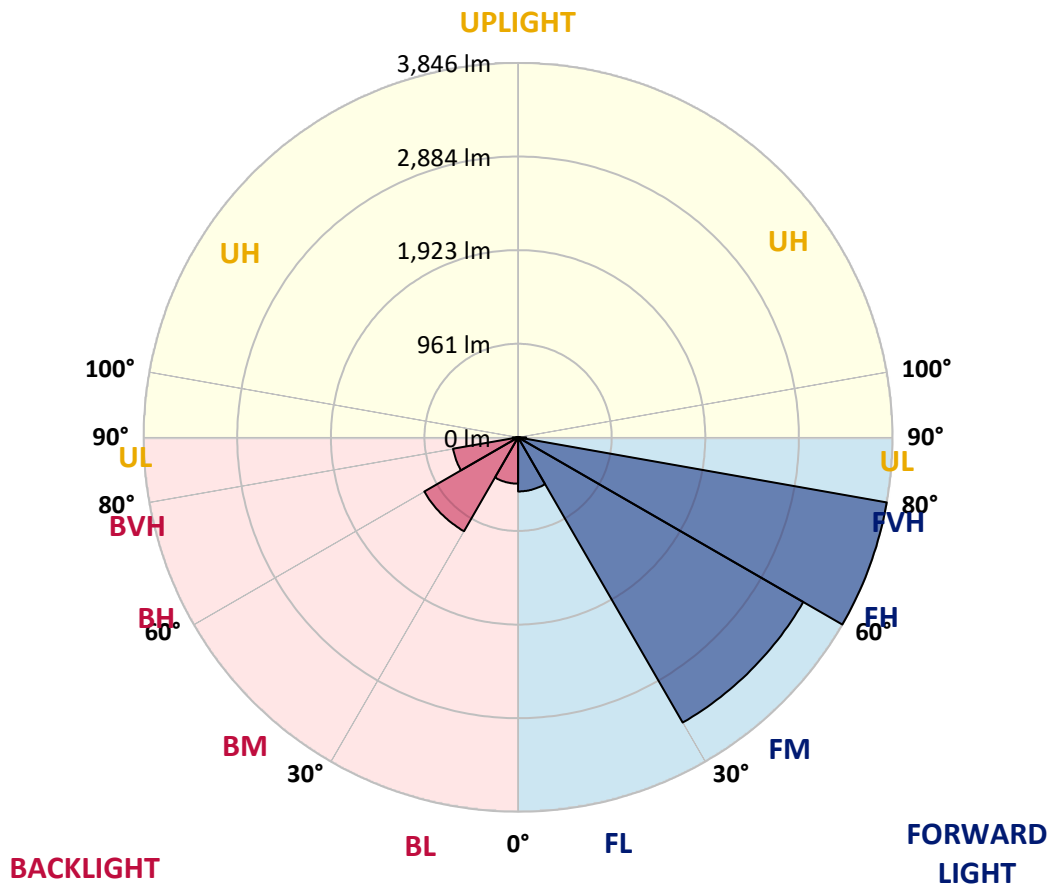
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	555.6	5.5			
FM (30°-60°)	3382.2	33.2			
FH (60°-80°)	3845.5	37.7			G2/5000
FVH (80°-90°)	82.1	0.8			G1/100
BL (0°-30°)	476.0	4.7	B1/500		
BM (30°-60°)	1112.4	10.9	B2/2500		
BH (60°-80°)	677.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	55.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9
2.5°	1076.9	1080.6	1079.8	1073.9	1070.3	1063.6	1064.4	1054.1	1038.6	1028.3	1016.5
5°	1171.9	1177.8	1170.4	1160.9	1146.1	1124.8	1122.6	1099.0	1069.5	1048.9	1027.5
7.5°	1254.4	1258.1	1249.3	1233.1	1211.7	1183.0	1177.8	1149.8	1113.0	1080.6	1049.6
10°	1318.5	1322.9	1311.1	1289.8	1261.8	1233.1	1229.4	1200.6	1161.6	1123.3	1084.3
12.5°	1373.0	1374.5	1362.0	1333.2	1303.0	1273.6	1269.9	1243.4	1207.3	1168.2	1125.5
15°	1404.7	1405.4	1389.9	1358.3	1329.5	1303.8	1301.6	1278.7	1245.6	1208.7	1163.1
17.5°	1402.5	1403.9	1392.9	1364.9	1339.9	1324.4	1322.2	1307.4	1281.7	1248.5	1202.9
20°	1375.2	1376.7	1369.3	1350.9	1337.6	1333.2	1334.0	1329.5	1314.1	1286.8	1240.4
22.5°	1353.9	1356.1	1349.4	1336.2	1334.7	1345.0	1347.2	1349.4	1342.1	1317.8	1272.8
25°	1364.2	1367.8	1357.5	1339.1	1342.1	1364.9	1369.3	1376.7	1370.8	1350.2	1311.1
27.5°	1435.6	1437.8	1411.3	1373.7	1364.9	1389.2	1395.8	1407.6	1403.2	1384.1	1353.9
30°	1601.3	1599.9	1543.2	1451.1	1414.3	1423.8	1429.0	1445.9	1447.4	1434.9	1406.1
32.5°	1834.8	1827.5	1739.8	1593.2	1486.4	1462.9	1468.8	1491.6	1508.5	1495.3	1456.2
35°	2081.6	2075.0	1978.5	1806.9	1619.8	1538.0	1531.4	1549.0	1574.8	1538.0	1482.0
37.5°	2316.6	2306.3	2207.6	1995.4	1784.0	1669.8	1660.3	1642.6	1627.1	1556.4	1513.7
40°	2577.3	2565.5	2479.4	2239.2	1965.2	1770.8	1746.5	1676.5	1662.5	1617.6	1596.2
42.5°	2855.8	2855.8	2784.3	2547.9	2184.0	1915.1	1883.5	1778.1	1792.9	1763.4	1738.4
45°	3134.2	3142.3	3085.6	2858.7	2476.4	2187.7	2136.8	1987.3	2022.7	2009.4	1996.9
47.5°	3371.4	3386.8	3375.8	3176.2	2834.4	2519.1	2441.8	2286.4	2362.2	2393.9	2429.3
50°	3627.0	3643.9	3632.9	3554.0	3253.5	2920.6	2851.3	2690.8	2821.1	2916.2	3031.8
52.5°	4006.3	4030.6	3938.5	3908.3	3762.5	3376.5	3314.7	3132.0	3368.4	3526.1	3783.9
55°	4326.7	4326.0	4293.6	4362.8	4309.0	3934.1	3865.6	3699.9	4001.9	4169.1	4546.2
57.5°	4475.5	4493.2	4604.4	4800.4	4907.9	4615.5	4549.9	4380.5	4681.8	4768.7	5176.0
60°	4552.1	4574.2	4789.3	5176.7	5466.2	5359.4	5333.6	5117.8	5287.2	5276.9	5707.1
62.5°	4444.6	4488.8	4834.2	5349.1	5864.7	6107.1	6099.0	5772.7	5802.1	5701.2	6036.3
65°	3951.1	3998.9	4541.1	5262.9	6092.3	6675.7	6677.9	6365.6	6197.7	5907.4	5981.1
67.5°	2825.6	2894.1	3564.4	4709.0	6012.0	6982.9	7008.6	6634.5	6290.5	5724.8	5400.7
70°	1540.2	1590.3	2115.5	3422.9	5288.7	6909.2	6957.1	6504.8	5880.9	4952.1	4157.3
72.5°	699.8	716.0	984.1	1878.3	3613.0	5947.2	6147.6	5805.1	4829.8	3657.9	2643.6
75°	320.4	327.8	428.7	898.6	1887.9	3979.8	4120.5	4323.8	3361.1	2309.9	1378.2
77.5°	201.1	203.3	243.8	411.0	941.4	1986.6	2134.6	2574.4	1968.2	1143.2	576.0
80°	118.6	120.8	151.7	222.4	442.0	909.0	1049.6	1018.0	925.2	493.5	262.2
82.5°	59.7	61.9	87.7	126.7	240.9	361.7	425.7	428.0	344.7	267.4	148.1
85°	21.4	22.1	28.7	50.1	102.4	119.3	133.3	162.8	168.7	155.4	71.4
87.5°	0.0	0.0	0.7	1.5	2.9	11.8	12.5	23.6	49.4	55.2	28.7
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°	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9	1009.9
2.5°	1012.8	1001.8	998.1	994.4	988.5	986.3	981.9	977.5	977.5	973.0	970.8
5°	1018.0	1003.2	993.7	989.2	985.6	987.8	987.8	989.2	994.4	991.4	992.9
7.5°	1036.4	1019.4	1006.2	1002.5	1002.5	1011.3	1017.2	1024.6	1034.2	1035.6	1035.6
10°	1068.8	1048.9	1034.9	1032.7	1036.4	1048.9	1057.7	1066.6	1078.4	1079.1	1080.6
12.5°	1104.1	1084.3	1070.3	1073.2	1076.9	1093.1	1102.7	1110.0	1121.8	1121.8	1121.1
15°	1141.0	1118.9	1107.1	1113.0	1124.0	1142.5	1143.9	1144.7	1150.6	1149.1	1148.3
17.5°	1179.3	1155.7	1146.9	1155.7	1167.5	1176.3	1169.0	1158.7	1156.4	1153.5	1152.0
20°	1216.8	1192.5	1188.9	1195.5	1199.2	1191.8	1169.0	1149.8	1141.0	1136.6	1135.1
22.5°	1249.3	1228.6	1226.4	1226.4	1208.0	1182.2	1148.3	1122.6	1110.8	1104.9	1103.4
25°	1287.6	1268.4	1264.7	1244.8	1197.7	1150.6	1104.9	1081.3	1071.7	1068.8	1069.5
27.5°	1332.5	1319.2	1307.4	1250.7	1168.2	1094.6	1043.0	1032.7	1029.0	1032.7	1034.9
30°	1387.7	1374.5	1348.0	1243.4	1121.1	1021.6	972.3	971.6	982.6	992.2	993.7
32.5°	1432.7	1426.8	1383.3	1219.8	1054.8	941.4	899.4	902.3	922.2	935.5	937.7
35°	1468.0	1477.6	1412.8	1180.8	976.0	865.5	832.3	833.8	844.9	863.3	864.0
37.5°	1518.1	1550.5	1439.3	1121.1	885.4	799.9	769.7	758.7	757.2	762.4	763.8
40°	1619.0	1667.6	1458.4	1034.2	797.7	741.0	707.1	685.8	667.3	653.4	648.9
42.5°	1771.5	1827.5	1469.5	928.8	719.6	682.8	644.5	617.3	584.9	555.4	545.1
45°	2051.4	2069.8	1469.5	816.9	650.4	628.3	590.0	557.6	516.3	481.7	474.4
47.5°	2499.2	2440.3	1471.0	708.6	589.3	580.4	547.3	510.5	464.8	436.1	431.6
50°	3174.0	2967.0	1501.2	618.7	538.4	539.9	515.6	475.1	433.9	412.5	408.8
52.5°	3938.5	3615.9	1582.2	552.4	495.7	506.8	493.5	454.5	417.6	399.2	395.5
55°	4657.5	4212.6	1651.4	505.3	459.6	478.8	478.0	442.0	408.8	390.4	388.2
57.5°	5268.8	4621.4	1641.1	467.0	428.7	453.0	464.1	433.9	402.9	387.4	385.2
60°	5648.9	4837.9	1494.5	431.6	405.1	434.6	455.9	431.6	405.9	402.2	402.9
62.5°	5813.9	4798.1	1213.2	405.1	389.7	425.7	464.8	447.1	433.1	442.0	447.1
65°	5557.6	4456.4	892.7	385.2	374.9	428.0	485.4	471.4	433.1	439.0	441.2
67.5°	4846.0	3793.4	645.3	365.3	356.5	434.6	514.9	467.7	408.1	408.1	403.7
70°	3492.2	2728.3	468.5	345.5	338.1	425.0	516.3	442.7	379.3	377.1	366.1
72.5°	2101.5	1609.4	365.3	323.4	310.1	377.1	483.9	413.2	351.4	332.9	319.7
75°	1091.6	806.6	306.4	299.1	265.9	319.7	442.7	367.6	300.5	284.3	277.0
77.5°	467.7	377.1	263.0	266.6	221.0	268.9	357.2	318.2	266.6	246.0	239.4
80°	230.6	214.3	207.7	213.6	176.8	207.7	307.9	278.4	226.1	202.6	193.0
82.5°	131.8	125.2	149.5	151.7	126.0	173.8	260.0	235.7	187.1	161.3	145.8
85°	61.1	65.6	90.6	91.3	78.1	119.3	170.2	132.6	99.4	82.5	78.8
87.5°	24.3	28.7	39.8	39.0	22.8	22.1	14.7	8.1	6.6	5.9	5.2
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)