

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: P631567

Luminaire Tested: GWS-SA1F-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-830-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

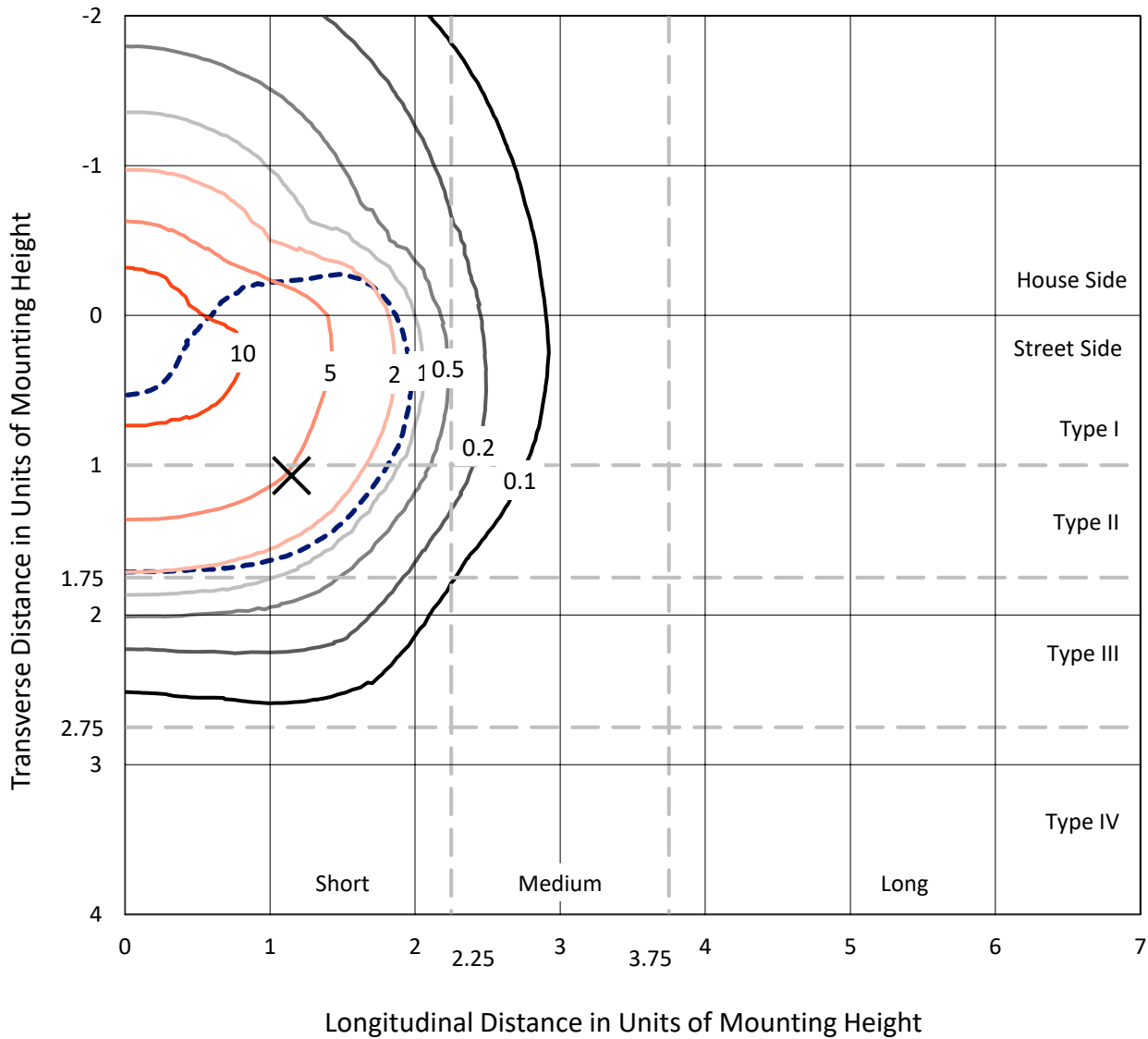
Lumens per Lamp: N/A  
Luminaire Lumens: 5712.2 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

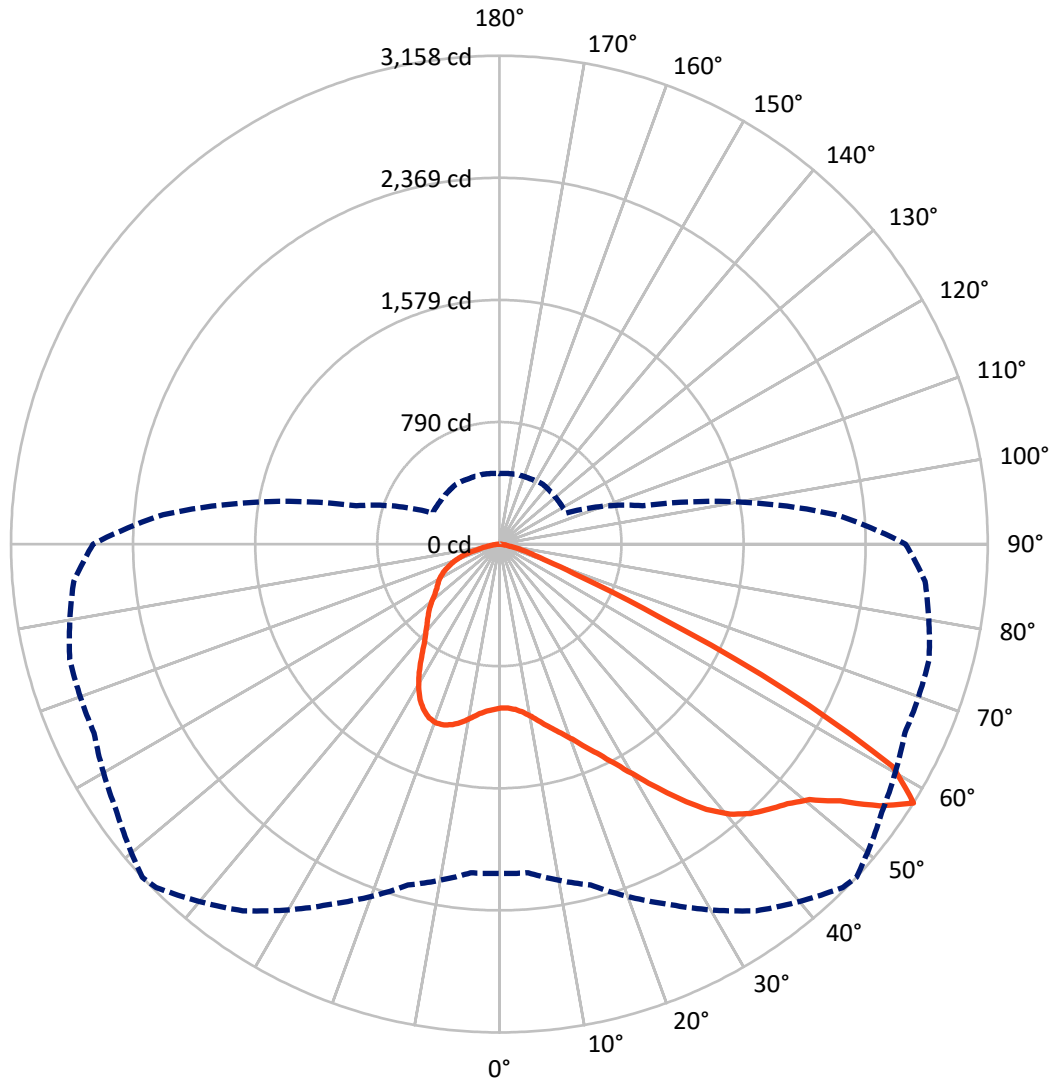
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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CATALOG NUMBER: GWS-SA1F-830-U-T3-W-GRSWH

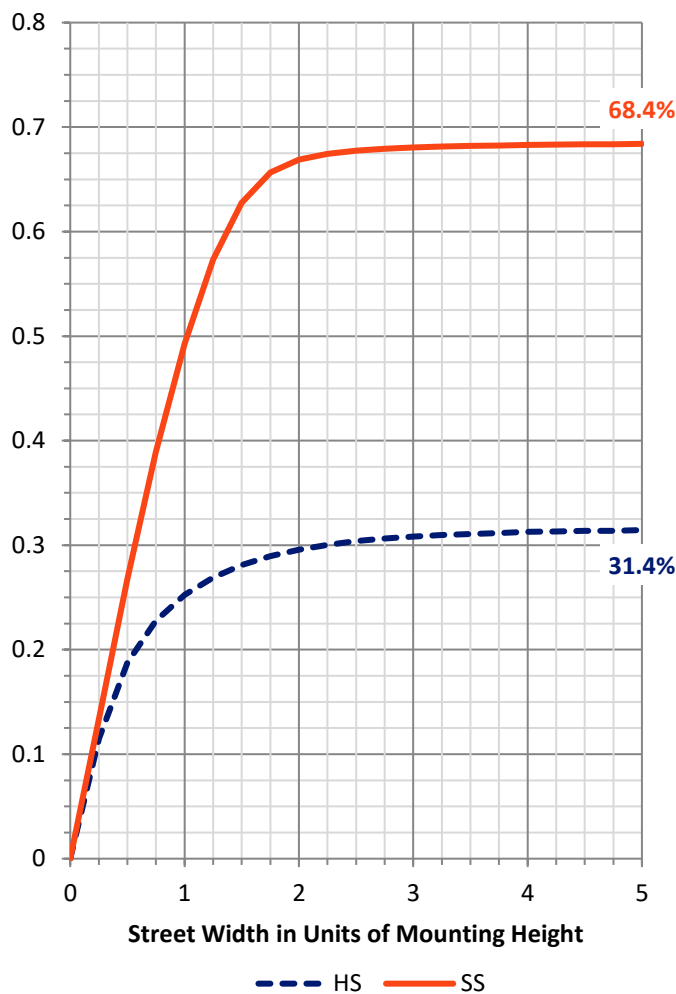
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1807.9	0.0	1807.9
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	3904.3	0.0	3904.3
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	5712.2	0.0	5712.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	1.8
10°-20°	343.7	6.0
20°-30°	618.8	10.8
30°-40°	934.6	16.4
40°-50°	1258.6	22.0
50°-60°	1512.3	26.5
60°-70°	736.5	12.9
70°-80°	181.5	3.2
80°-90°	21.8	0.4
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°	5712.2	100.0
0°-180°	5712.2	100.0

**Coefficient of Utilization**

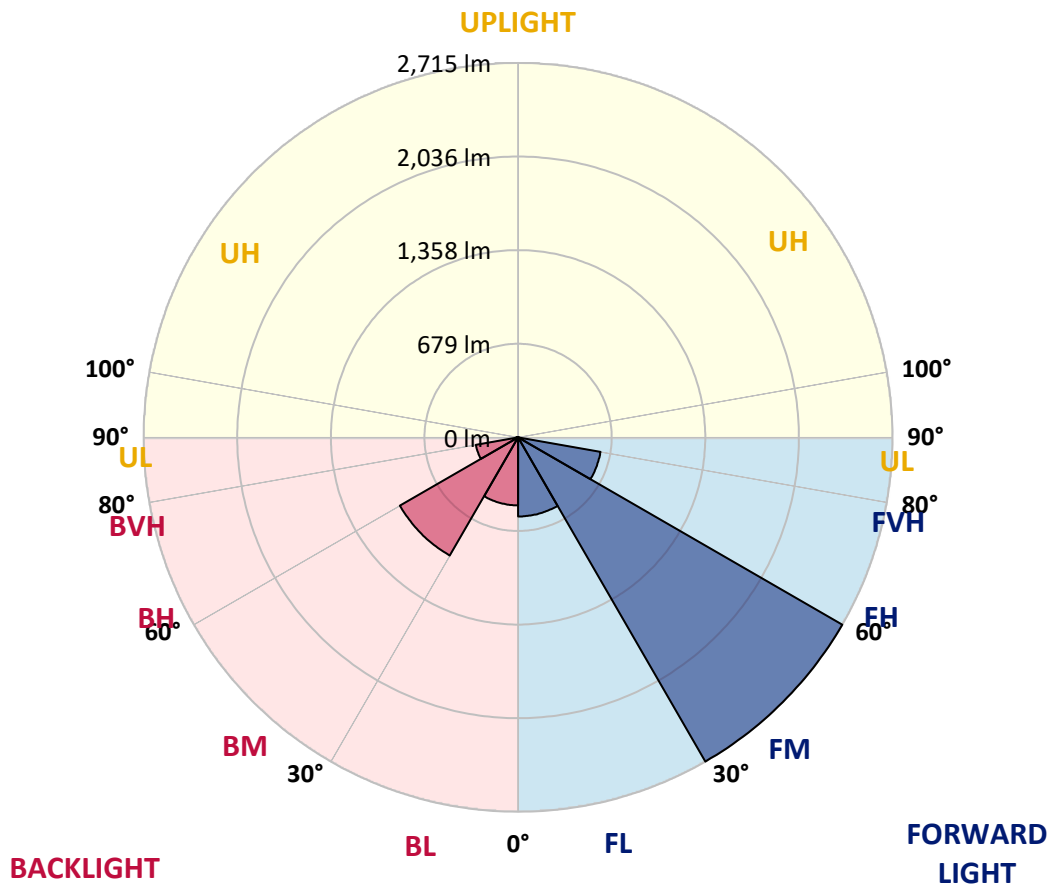


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	573.8	10.0			
FM (30°-60°)	2715.3	47.5			
FH (60°-80°)	607.0	10.6			G0/660
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	493.2	8.6	B1/500		
BM (30°-60°)	990.2	17.3	B1/1000		
BH (60°-80°)	311.0	5.4	B1/500		G1/500
BVH (80°-90°)	13.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3
2.5°	1057.4	1056.9	1056.9	1059.8	1059.8	1060.8	1062.2	1063.7	1064.1	1061.7	1056.5
5°	1068.9	1068.9	1068.9	1071.3	1071.3	1072.3	1074.2	1074.7	1074.2	1070.4	1065.1
7.5°	1087.2	1087.2	1087.6	1090.5	1092.9	1094.4	1097.7	1097.2	1095.8	1089.6	1082.8
10°	1116.9	1118.3	1119.8	1123.1	1127.9	1131.3	1133.7	1133.7	1131.8	1122.2	1113.5
12.5°	1159.1	1161.0	1162.5	1165.4	1169.2	1175.0	1180.2	1180.2	1177.8	1165.8	1152.9
15°	1208.5	1210.5	1210.0	1210.9	1218.1	1226.3	1230.6	1233.5	1234.5	1217.7	1197.5
17.5°	1265.2	1267.1	1265.2	1262.3	1263.2	1276.2	1283.9	1294.4	1300.7	1278.1	1246.0
20°	1316.5	1314.6	1314.6	1316.5	1319.4	1335.2	1346.7	1364.0	1371.7	1344.3	1294.4
22.5°	1370.7	1375.0	1373.1	1373.1	1384.6	1411.0	1424.9	1447.5	1455.6	1420.1	1353.0
25°	1440.8	1444.6	1443.6	1444.6	1458.0	1495.4	1509.4	1551.1	1559.3	1508.4	1417.7
27.5°	1517.5	1523.8	1526.6	1525.7	1547.3	1596.2	1613.5	1671.5	1686.4	1607.2	1486.8
30°	1617.3	1624.0	1626.4	1625.5	1650.9	1717.6	1737.3	1803.5	1824.6	1724.3	1574.6
32.5°	1732.9	1739.7	1746.8	1749.7	1782.4	1850.5	1878.8	1947.4	1977.6	1859.6	1680.6
35°	1847.6	1853.4	1867.3	1889.8	1934.4	2004.0	2029.0	2096.6	2125.9	2000.2	1808.7
37.5°	1974.3	1978.1	1990.1	2021.3	2085.6	2151.8	2176.7	2241.5	2244.9	2135.9	1953.6
40°	2112.9	2112.9	2110.5	2141.2	2208.4	2275.1	2296.7	2334.1	2314.4	2240.5	2094.7
42.5°	2230.5	2228.5	2230.5	2259.2	2309.1	2363.4	2382.1	2374.9	2349.9	2320.7	2222.3
45°	2336.5	2337.9	2355.2	2377.3	2403.2	2435.3	2446.4	2405.6	2383.0	2384.9	2324.5
47.5°	2408.5	2409.9	2450.2	2487.1	2503.0	2513.0	2508.2	2451.6	2440.1	2461.7	2403.2
50°	2418.0	2425.7	2495.3	2571.1	2610.4	2611.9	2598.4	2529.4	2526.0	2550.5	2445.4
52.5°	2420.0	2427.6	2514.5	2651.2	2753.4	2775.0	2759.6	2687.7	2652.7	2628.2	2497.2
55°	2412.8	2421.4	2517.4	2705.0	2900.7	2987.1	2988.5	2886.8	2775.0	2758.7	2645.0
57.5°	2130.2	2133.5	2282.3	2568.2	2894.9	3139.6	3158.3	3020.2	2892.5	2877.2	2763.5
60°	1483.9	1497.4	1659.1	2036.6	2432.0	2863.3	2923.7	2883.4	2798.0	2686.2	2371.0
62.5°	743.2	754.7	916.8	1273.8	1677.3	2017.9	2082.7	2125.4	2145.5	2025.6	1614.4
65°	320.0	328.6	429.4	665.4	949.5	1114.0	1136.6	1187.9	1313.6	1172.1	869.8
67.5°	214.0	219.7	271.1	405.9	559.4	570.0	566.6	577.6	605.0	499.4	392.9
70°	164.1	168.9	203.4	297.5	402.0	344.0	325.8	295.5	321.0	327.2	318.6
72.5°	119.0	122.8	148.7	202.9	251.9	219.7	216.9	232.2	266.8	276.3	271.1
75°	76.8	78.7	94.5	111.3	130.0	141.1	146.8	174.6	209.7	216.9	210.6
77.5°	51.3	52.8	61.9	71.5	73.9	74.4	76.3	88.8	112.7	126.2	124.7
80°	26.9	26.9	30.2	30.2	34.5	41.3	43.2	51.3	62.4	69.1	69.6
82.5°	10.6	11.0	13.0	14.4	17.3	21.1	22.5	26.9	32.6	37.4	41.7
85°	4.3	4.8	5.3	6.2	7.7	9.6	10.1	11.5	15.4	19.2	21.6
87.5°	0.0	0.0	0.5	0.5	1.0	1.4	1.4	1.9	2.4	4.3	5.8
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: P631567

CATALOG NUMBER: GWS-SA1F-830-U-T3-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3	1059.3
2.5°	1062.7	1056.5	1062.7	1064.6	1069.9	1071.8	1068.5	1068.0	1068.0	1063.2	1061.7
5°	1069.9	1064.1	1070.4	1073.2	1080.9	1085.7	1086.7	1090.5	1092.9	1091.0	1090.5
7.5°	1087.6	1080.4	1087.2	1091.5	1101.6	1109.2	1112.6	1121.2	1127.5	1126.5	1126.0
10°	1118.8	1109.2	1116.9	1124.1	1135.1	1144.3	1144.7	1149.5	1155.8	1153.9	1152.9
12.5°	1154.8	1145.7	1154.3	1161.5	1174.5	1178.3	1172.1	1170.2	1171.1	1168.7	1166.8
15°	1198.9	1186.0	1193.7	1201.8	1209.0	1204.7	1191.3	1186.0	1185.5	1182.2	1180.2
17.5°	1243.1	1226.8	1232.5	1236.9	1233.5	1220.1	1203.3	1194.2	1189.8	1183.1	1181.2
20°	1286.7	1266.1	1265.2	1261.8	1246.4	1222.0	1199.4	1181.2	1170.2	1161.0	1157.7
22.5°	1336.6	1307.9	1293.5	1278.1	1244.5	1204.7	1170.6	1144.7	1127.0	1115.5	1111.6
25°	1390.4	1349.6	1319.9	1289.1	1225.3	1167.8	1120.3	1084.8	1063.7	1051.2	1046.9
27.5°	1443.6	1387.5	1342.9	1290.6	1187.0	1114.5	1050.7	1002.7	981.6	971.5	968.2
30°	1515.6	1437.9	1370.2	1271.9	1136.6	1040.6	961.0	912.5	898.6	891.4	888.5
32.5°	1598.6	1501.7	1406.7	1232.5	1072.3	954.3	870.3	836.7	827.1	813.2	812.7
35°	1708.0	1592.8	1441.2	1174.5	991.2	861.7	800.7	776.8	759.5	737.4	735.5
37.5°	1835.6	1706.5	1459.9	1100.6	896.7	785.4	748.9	722.1	694.2	665.0	661.1
40°	1967.5	1839.4	1461.4	1013.3	804.1	735.0	704.3	669.3	634.7	602.1	597.8
42.5°	2106.2	1963.2	1436.0	912.5	728.3	691.4	660.2	616.0	577.2	555.1	552.7
45°	2230.0	2063.0	1378.4	806.5	672.2	654.9	615.1	567.6	546.9	531.1	527.7
47.5°	2327.4	2129.2	1300.7	711.5	626.6	617.5	565.7	541.2	525.3	511.0	507.6
50°	2375.3	2144.1	1199.4	634.3	584.4	573.3	537.8	519.1	508.6	497.0	494.2
52.5°	2434.8	2160.9	1112.1	569.5	543.1	528.2	514.8	499.9	492.2	485.0	482.7
55°	2571.6	2224.2	1066.1	517.7	503.8	497.0	495.1	482.7	480.3	475.5	471.1
57.5°	2627.2	2183.4	957.1	475.5	472.6	473.5	478.3	466.8	464.4	458.7	455.8
60°	2112.9	1650.4	648.2	439.0	446.7	452.9	457.7	446.2	442.8	441.9	438.0
62.5°	1353.9	1015.2	452.4	404.9	416.4	424.1	427.0	416.0	413.6	421.2	421.7
65°	704.8	553.2	367.0	368.5	378.1	389.6	395.3	391.5	390.5	398.7	399.2
67.5°	359.8	338.2	320.0	325.3	333.0	347.8	361.3	378.1	383.8	384.8	385.3
70°	306.6	297.0	287.9	291.2	299.4	307.5	320.5	328.6	319.0	316.6	315.7
72.5°	261.0	253.8	249.5	253.3	257.6	256.2	252.4	256.2	257.6	258.1	258.6
75°	202.9	197.7	194.3	194.8	194.8	189.5	182.3	178.0	173.2	169.4	169.4
77.5°	124.3	125.2	128.6	128.1	127.6	125.7	118.5	114.7	103.2	99.8	99.8
80°	71.0	72.4	75.8	76.8	76.8	74.4	67.2	62.9	57.6	55.2	54.7
82.5°	43.2	45.1	47.0	48.0	48.5	45.6	39.3	36.0	33.1	30.7	30.7
85°	22.5	23.5	25.4	25.9	24.5	21.6	18.2	16.8	13.9	13.4	13.4
87.5°	6.2	6.7	7.7	6.2	5.8	4.3	2.4	1.9	1.0	0.5	0.5
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)