

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: P633117

Luminaire Tested: GWS-SA2E-722-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633117  
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-SA2E-722-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

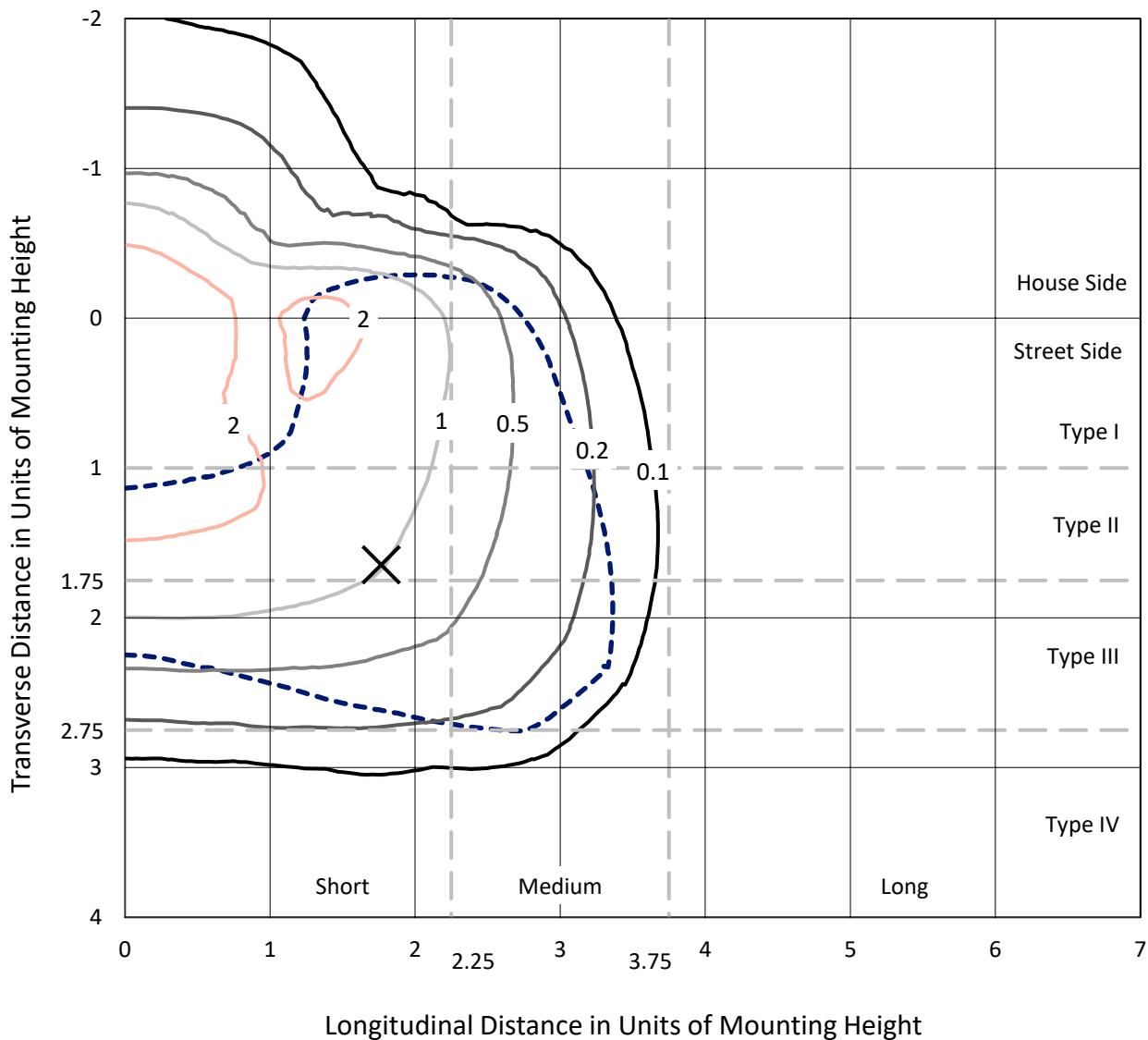
Lumens per Lamp: N/A  
Luminaire Lumens: 10655.6 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

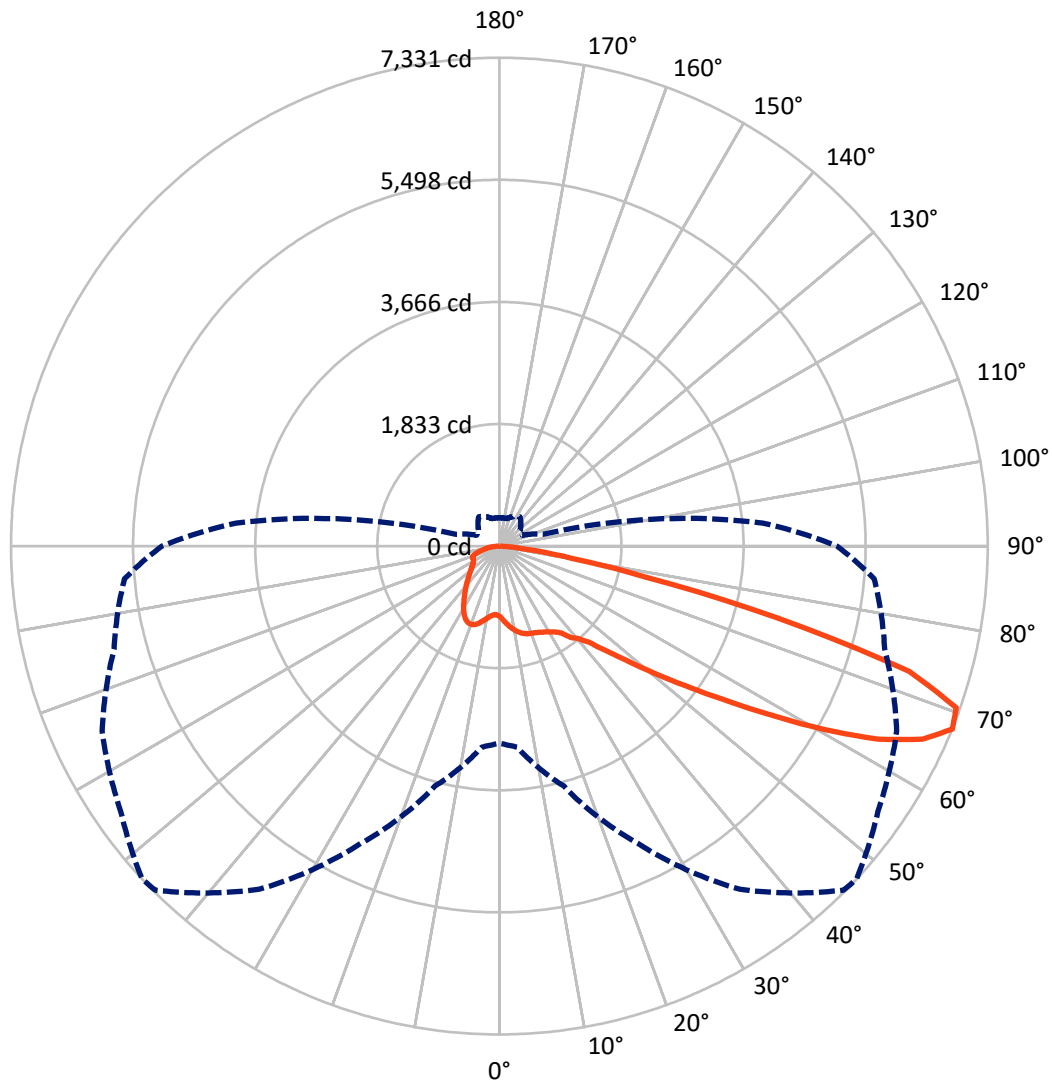
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.3 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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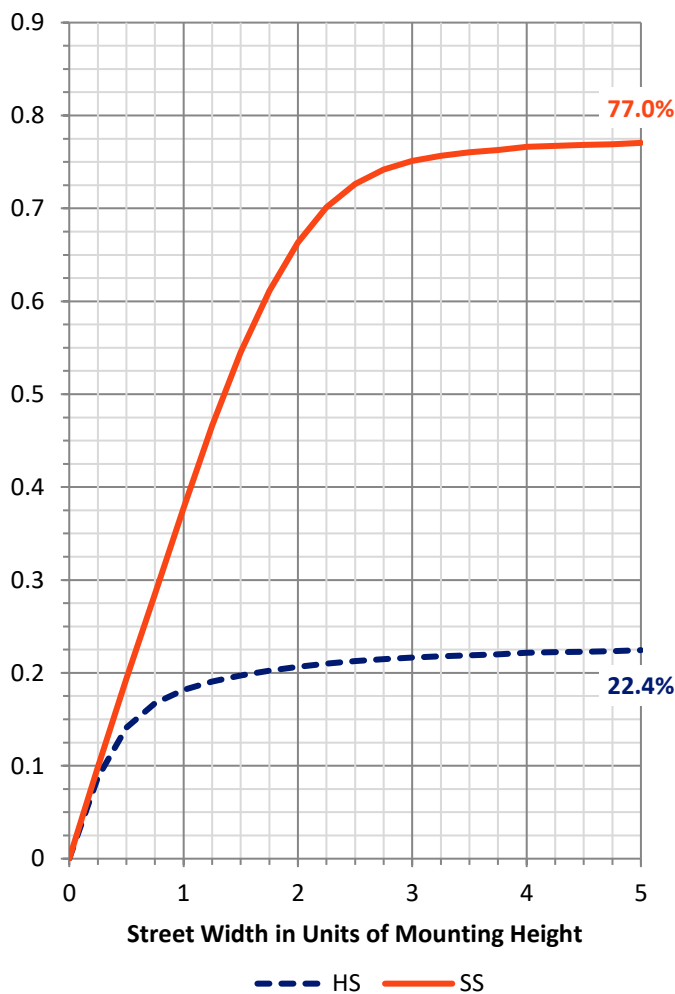
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2428.5	0.0	2428.5
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	8227.1	0.0	8227.1
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	10655.6	0.0	10655.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.0	1.0
10°-20°	359.7	3.4
20°-30°	611.3	5.7
30°-40°	895.6	8.4
40°-50°	1364.5	12.8
50°-60°	2441.3	22.9
60°-70°	3257.7	30.6
70°-80°	1473.2	13.8
80°-90°	144.3	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°	10655.6	100.0
0°-180°	10655.6	100.0

**Coefficient of Utilization**



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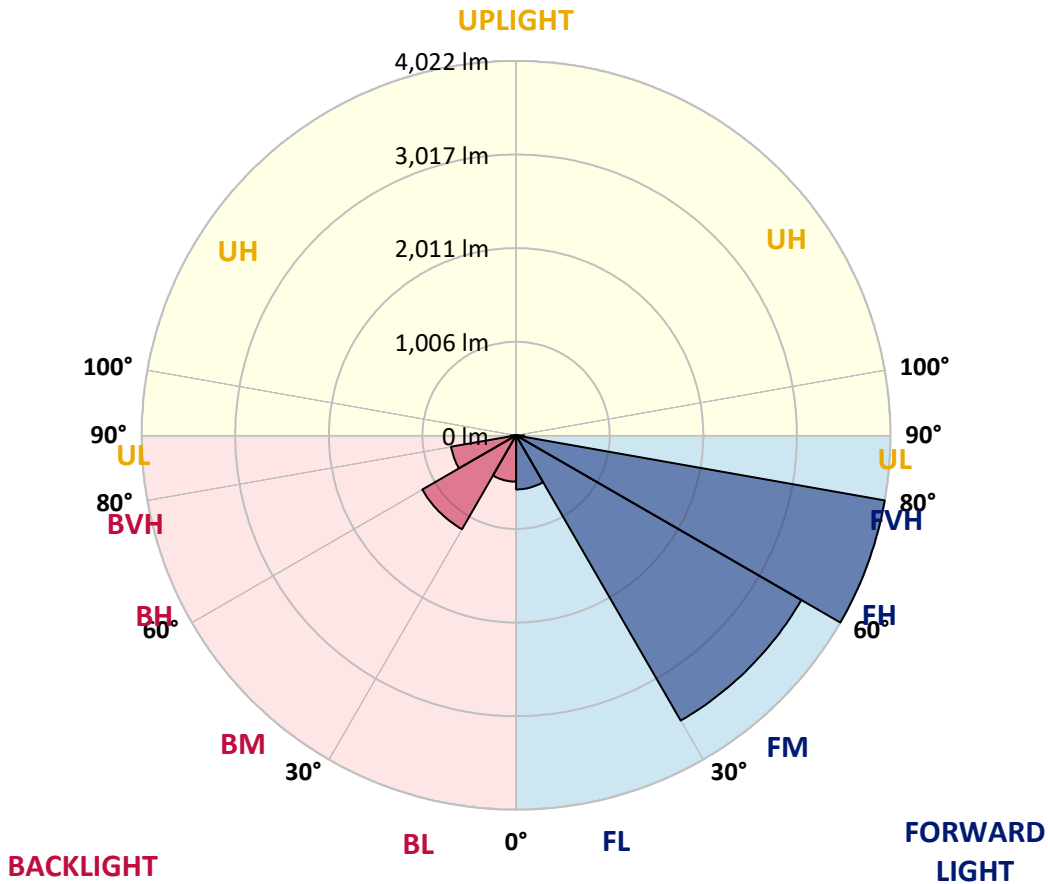
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.1	5.5			
FM (30°-60°)	3537.8	33.2			
FH (60°-80°)	4022.4	37.7			G2/5000
FVH (80°-90°)	85.9	0.8			G1/100
BL (0°-30°)	497.8	4.7	B1/500		
BM (30°-60°)	1163.6	10.9	B2/2500		
BH (60°-80°)	708.6	6.6	B2/1000		G2/1000
BVH (80°-90°)	58.5	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°	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1126.4	1130.3	1129.5	1123.3	1119.5	1112.6	1113.3	1102.5	1086.4	1075.6	1063.2
5°	1225.8	1232.0	1224.3	1214.3	1198.8	1176.5	1174.2	1149.5	1118.7	1097.1	1074.8
7.5°	1312.1	1316.0	1306.7	1289.8	1267.4	1237.4	1232.0	1202.7	1164.2	1130.3	1097.9
10°	1379.1	1383.8	1371.4	1349.1	1319.8	1289.8	1285.9	1255.9	1215.0	1175.0	1134.1
12.5°	1436.1	1437.7	1424.6	1394.5	1363.0	1332.1	1328.3	1300.5	1262.8	1222.0	1177.3
15°	1469.3	1470.0	1453.9	1420.7	1390.7	1363.7	1361.4	1337.5	1302.9	1264.3	1216.6
17.5°	1467.0	1468.5	1456.9	1427.7	1401.5	1385.3	1383.0	1367.6	1340.6	1305.9	1258.2
20°	1438.5	1440.0	1432.3	1413.0	1399.2	1394.5	1395.3	1390.7	1374.5	1346.0	1297.5
22.5°	1416.1	1418.4	1411.5	1397.6	1396.1	1406.9	1409.2	1411.5	1403.8	1378.4	1331.4
25°	1426.9	1430.8	1420.0	1400.7	1403.8	1427.7	1432.3	1440.0	1433.8	1412.3	1371.4
27.5°	1501.6	1503.9	1476.2	1436.9	1427.7	1453.1	1460.0	1472.4	1467.7	1447.7	1416.1
30°	1675.0	1673.4	1614.1	1517.8	1479.3	1489.3	1494.7	1512.4	1514.0	1500.9	1470.8
32.5°	1919.2	1911.5	1819.8	1666.5	1554.8	1530.1	1536.3	1560.2	1577.9	1564.0	1523.2
35°	2177.3	2170.4	2069.5	1890.0	1694.3	1608.7	1601.8	1620.3	1647.3	1608.7	1550.2
37.5°	2423.1	2412.3	2309.1	2087.2	1866.1	1746.6	1736.6	1718.1	1702.0	1628.0	1583.3
40°	2695.9	2683.5	2593.4	2342.2	2055.6	1852.2	1826.8	1753.6	1738.9	1691.9	1669.6
42.5°	2987.1	2987.1	2912.4	2665.0	2284.4	2003.2	1970.1	1859.9	1875.3	1844.5	1818.3
45°	3278.3	3286.8	3227.5	2990.2	2590.3	2288.3	2235.1	2078.7	2115.7	2101.8	2088.7
47.5°	3526.4	3542.6	3531.0	3322.2	2964.7	2635.0	2554.1	2391.5	2470.9	2504.0	2541.0
50°	3793.8	3811.5	3799.9	3717.5	3403.1	3054.9	2982.5	2814.5	2950.9	3050.3	3171.2
52.5°	4190.6	4216.0	4119.7	4088.1	3935.5	3531.8	3467.1	3276.0	3523.3	3688.2	3957.9
55°	4525.7	4524.9	4491.0	4563.5	4507.2	4115.1	4043.4	3870.0	4185.9	4360.8	4755.3
57.5°	4681.3	4699.8	4816.2	5021.1	5133.6	4827.7	4759.2	4582.0	4897.1	4988.0	5414.1
60°	4761.5	4784.6	5009.6	5414.8	5717.6	5605.9	5578.9	5353.2	5530.4	5519.6	5969.6
62.5°	4649.0	4695.2	5056.6	5595.1	6134.4	6387.9	6379.4	6038.1	6069.0	5963.4	6314.0
65°	4132.8	4182.9	4749.9	5505.0	6372.5	6982.7	6985.0	6658.4	6482.7	6179.1	6256.2
67.5°	2955.5	3027.2	3728.3	4925.6	6288.5	7304.0	7331.0	6939.6	6579.8	5988.1	5649.0
70°	1611.0	1663.4	2212.8	3580.3	5531.9	7227.0	7277.0	6804.0	6151.4	5179.8	4348.5
72.5°	731.9	748.9	1029.3	1964.7	3779.1	6220.7	6430.3	6072.0	5051.9	3826.1	2765.2
75°	335.2	342.9	448.4	940.0	1974.7	4162.8	4310.0	4522.6	3515.6	2416.2	1441.5
77.5°	210.3	212.6	255.0	429.9	984.7	2077.9	2232.8	2692.8	2058.7	1195.8	602.5
80°	124.0	126.4	158.7	232.7	462.3	950.8	1097.9	1064.8	967.7	516.2	274.3
82.5°	62.4	64.7	91.7	132.5	251.9	378.3	445.3	447.6	360.6	279.7	154.9
85°	22.3	23.1	30.0	52.4	107.1	124.8	139.5	170.3	176.4	162.6	74.7
87.5°	0.0	0.0	0.8	1.5	3.1	12.3	13.1	24.7	51.6	57.8	30.0
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°	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3	1056.3
2.5°	1059.4	1047.8	1044.0	1040.1	1034.0	1031.7	1027.0	1022.4	1022.4	1017.8	1015.5
5°	1064.8	1049.4	1039.4	1034.7	1030.9	1033.2	1033.2	1034.7	1040.1	1037.0	1038.6
7.5°	1084.0	1066.3	1052.5	1048.6	1048.6	1057.8	1064.0	1071.7	1081.7	1083.3	1083.3
10°	1117.9	1097.1	1082.5	1080.2	1084.0	1097.1	1106.4	1115.6	1128.0	1128.7	1130.3
12.5°	1154.9	1134.1	1119.5	1122.6	1126.4	1143.4	1153.4	1161.1	1173.4	1173.4	1172.6
15°	1193.4	1170.3	1158.0	1164.2	1175.7	1195.0	1196.5	1197.3	1203.5	1201.9	1201.2
17.5°	1233.5	1208.9	1199.6	1208.9	1221.2	1230.4	1222.7	1211.9	1209.6	1206.5	1205.0
20°	1272.8	1247.4	1243.5	1250.5	1254.3	1246.6	1222.7	1202.7	1193.4	1188.8	1187.3
22.5°	1306.7	1285.1	1282.8	1282.8	1263.6	1236.6	1201.2	1174.2	1161.9	1155.7	1154.2
25°	1346.8	1326.7	1322.9	1302.1	1252.8	1203.5	1155.7	1131.0	1121.0	1117.9	1118.7
27.5°	1393.8	1379.9	1367.6	1308.2	1222.0	1144.9	1091.0	1080.2	1076.3	1080.2	1082.5
30°	1451.6	1437.7	1410.0	1300.5	1172.6	1068.6	1017.0	1016.2	1027.8	1037.8	1039.4
32.5°	1498.6	1492.4	1446.9	1275.9	1103.3	984.7	940.7	943.8	964.6	978.5	980.8
35°	1535.5	1545.6	1477.8	1235.1	1020.9	905.3	870.6	872.2	883.7	903.0	903.8
37.5°	1587.9	1621.8	1505.5	1172.6	926.1	836.7	805.1	793.6	792.0	797.4	799.0
40°	1693.5	1744.3	1525.5	1081.7	834.4	775.1	739.6	717.3	698.0	683.4	678.8
42.5°	1853.0	1911.5	1537.1	971.6	752.7	714.2	674.2	645.6	611.7	580.9	570.1
45°	2145.7	2165.0	1537.1	854.4	680.3	657.2	617.1	583.2	540.1	503.9	496.2
47.5°	2614.2	2552.5	1538.6	741.2	616.4	607.1	572.5	533.9	486.2	456.1	451.5
50°	3319.9	3103.4	1570.2	647.2	563.2	564.8	539.3	496.9	453.8	431.5	427.6
52.5°	4119.7	3782.2	1655.0	577.8	518.5	530.1	516.2	475.4	436.9	417.6	413.7
55°	4871.6	4406.3	1727.4	528.5	480.8	500.8	500.0	462.3	427.6	408.3	406.0
57.5°	5511.1	4833.9	1716.6	488.5	448.4	473.8	485.4	453.8	421.4	405.3	403.0
60°	5908.7	5060.4	1563.3	451.5	423.8	454.6	476.9	451.5	424.5	420.7	421.4
62.5°	6081.3	5018.8	1269.0	423.8	407.6	445.3	486.2	467.7	453.0	462.3	467.7
65°	5813.2	4661.3	933.8	403.0	392.2	447.6	507.7	493.1	453.0	459.2	461.5
67.5°	5068.9	3967.9	674.9	382.2	372.9	454.6	538.6	489.2	426.8	426.8	422.2
70°	3652.8	2853.8	490.0	361.3	353.6	444.6	540.1	463.0	396.8	394.5	382.9
72.5°	2198.1	1683.5	382.2	338.2	324.4	394.5	506.2	432.2	367.5	348.3	334.4
75°	1141.8	843.7	320.5	312.8	278.1	334.4	463.0	384.5	314.3	297.4	289.7
77.5°	489.2	394.5	275.1	278.9	231.1	281.2	373.7	332.8	278.9	257.3	250.4
80°	241.2	224.2	217.3	223.4	184.9	217.3	322.1	291.2	236.5	211.9	201.9
82.5°	137.9	131.0	156.4	158.7	131.7	181.8	272.0	246.5	195.7	168.7	152.6
85°	63.9	68.6	94.8	95.5	81.7	124.8	178.0	138.7	104.0	86.3	82.4
87.5°	25.4	30.0	41.6	40.8	23.9	23.1	15.4	8.5	6.9	6.2	5.4
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)