

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: P631787

Luminaire Tested: GWS-SA2B-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631787  
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-SA2B-735-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5809.5 lumens  
Efficiency: N/A  
Efficacy: 125.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

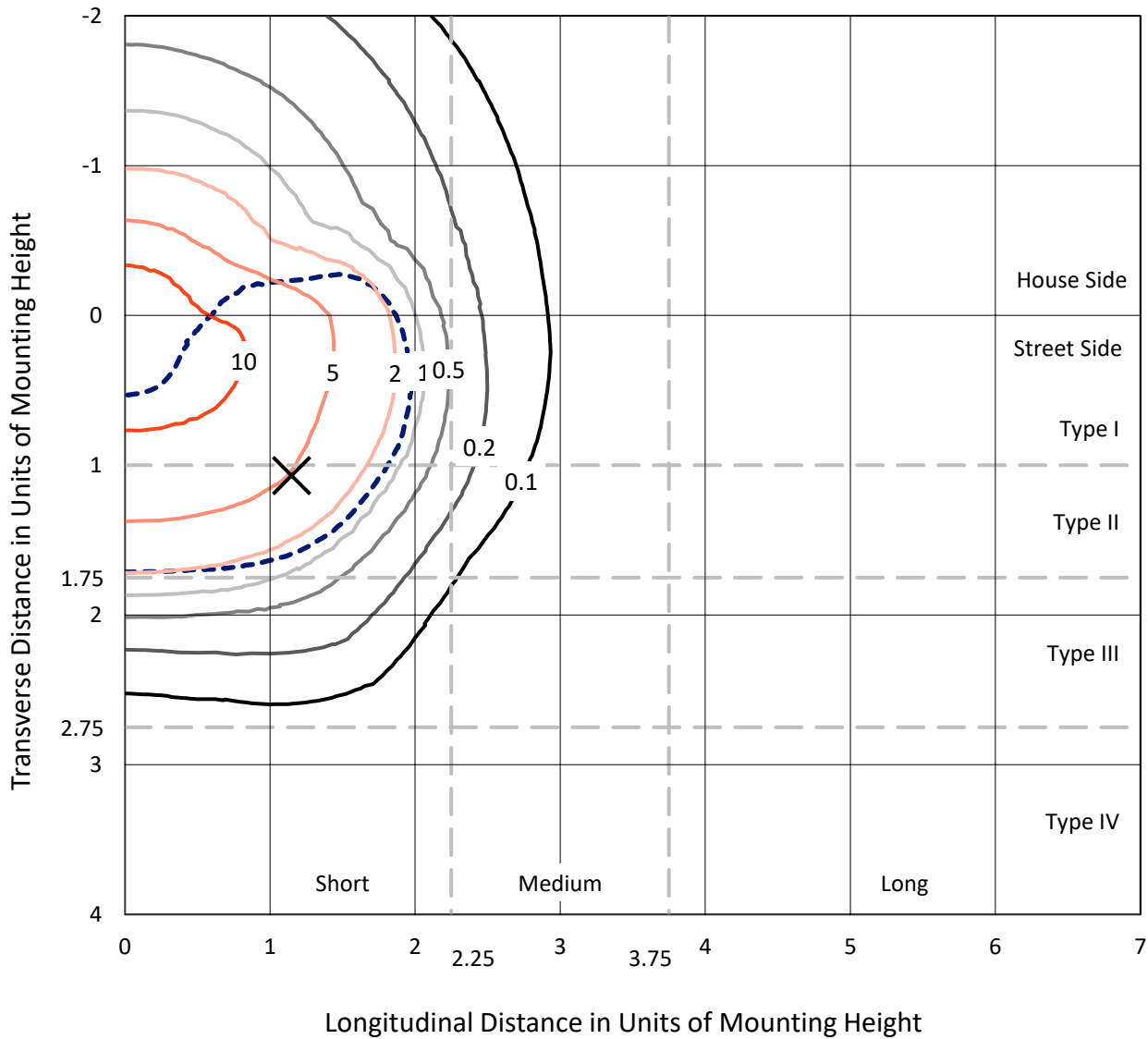
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

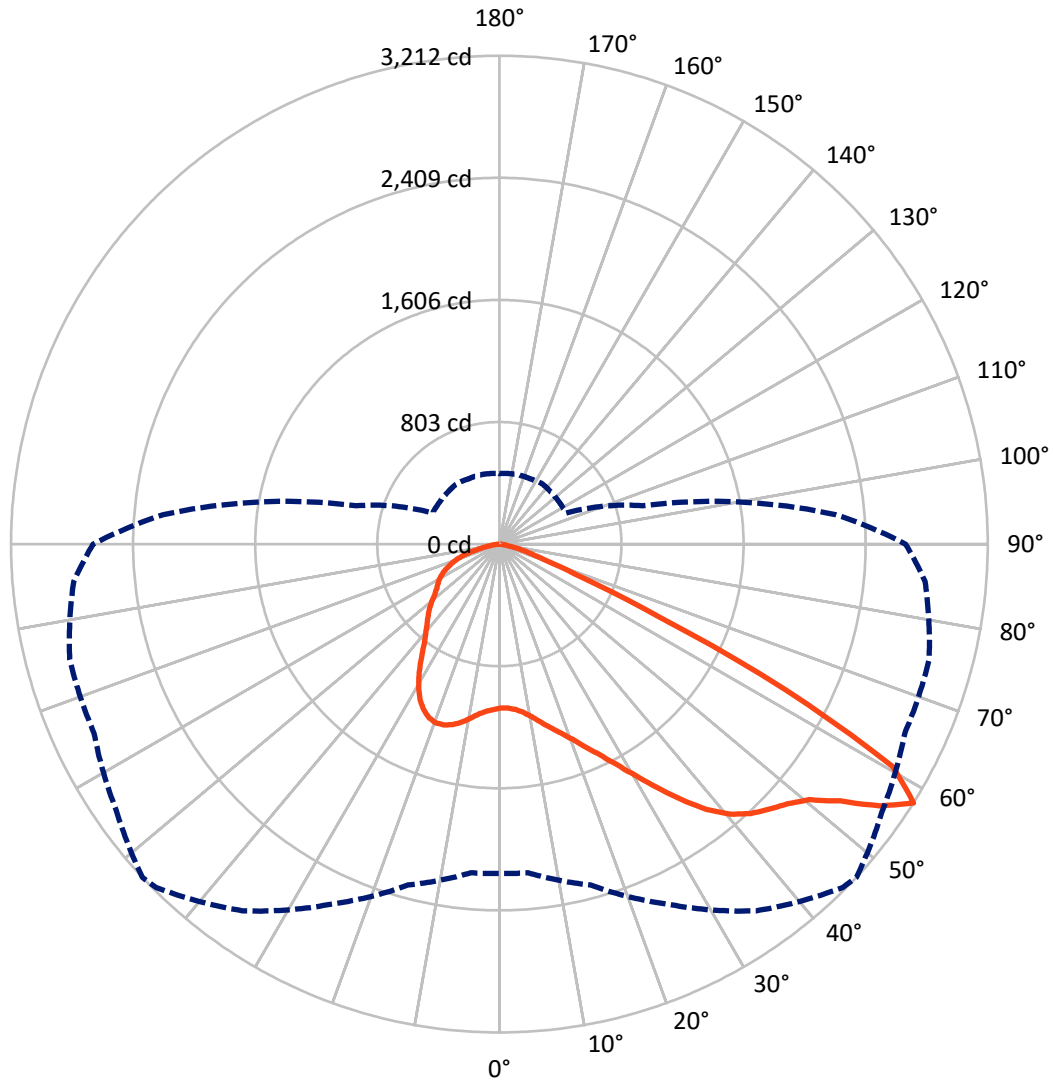
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 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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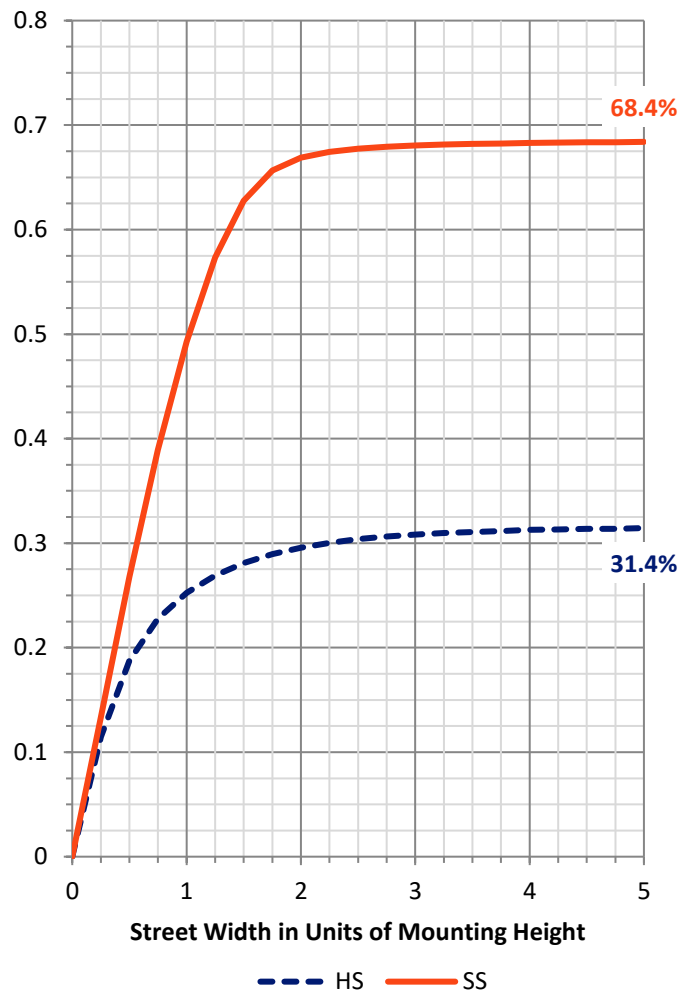
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1838.7	0.0	1838.7
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	3970.8	0.0	3970.8
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	5809.5	0.0	5809.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	1.8
10°-20°	349.5	6.0
20°-30°	629.3	10.8
30°-40°	950.5	16.4
40°-50°	1280.0	22.0
50°-60°	1538.1	26.5
60°-70°	749.1	12.9
70°-80°	184.5	3.2
80°-90°	22.2	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°	5809.5	100.0
0°-180°	5809.5	100.0

**Coefficient of Utilization**



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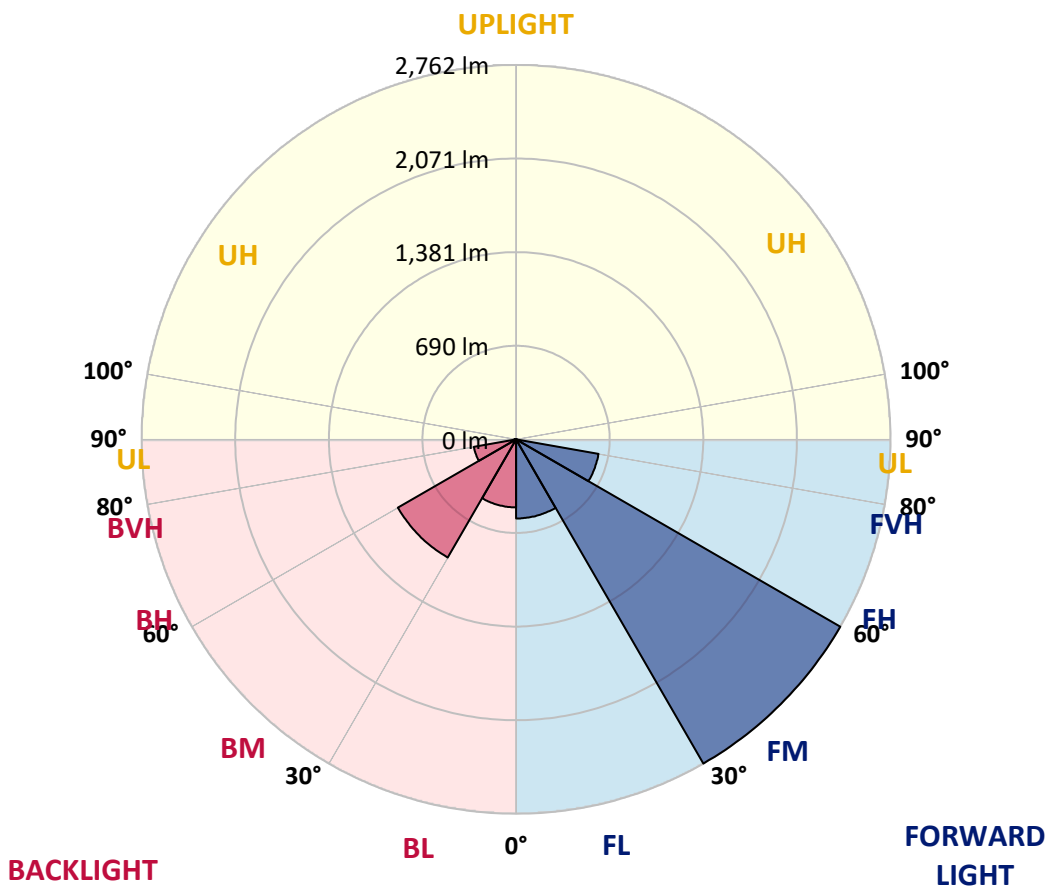
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.5	10.0			
FM (30°-60°)	2761.6	47.5			
FH (60°-80°)	617.4	10.6			G0/660
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	501.6	8.6	B2/1000		
BM (30°-60°)	1007.0	17.3	B2/2500		
BH (60°-80°)	316.2	5.4	B1/500		G1/500
BVH (80°-90°)	13.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4
2.5°	1075.4	1074.9	1074.9	1077.9	1077.9	1078.8	1080.3	1081.8	1082.3	1079.8	1074.5
5°	1087.1	1087.1	1087.1	1089.6	1089.6	1090.6	1092.5	1093.0	1092.5	1088.6	1083.2
7.5°	1105.7	1105.7	1106.2	1109.1	1111.5	1113.0	1116.4	1115.9	1114.5	1108.1	1101.3
10°	1135.9	1137.4	1138.9	1142.3	1147.2	1150.6	1153.0	1153.0	1151.1	1141.3	1132.5
12.5°	1178.9	1180.8	1182.3	1185.2	1189.1	1195.0	1200.3	1200.3	1197.9	1185.7	1172.5
15°	1229.1	1231.1	1230.6	1231.6	1238.9	1247.2	1251.6	1254.5	1255.5	1238.4	1217.9
17.5°	1286.7	1288.7	1286.7	1283.8	1284.8	1297.9	1305.7	1316.5	1322.8	1299.9	1267.2
20°	1338.9	1337.0	1337.0	1338.9	1341.8	1357.9	1369.7	1387.2	1395.0	1367.2	1316.5
22.5°	1394.1	1398.4	1396.5	1396.5	1408.2	1435.0	1449.2	1472.1	1480.4	1444.3	1376.0
25°	1465.3	1469.2	1468.2	1469.2	1482.9	1520.9	1535.1	1577.5	1585.8	1534.1	1441.9
27.5°	1543.4	1549.7	1552.6	1551.7	1573.6	1623.4	1641.0	1700.0	1715.1	1634.6	1512.1
30°	1644.9	1651.7	1654.1	1653.2	1679.0	1746.8	1766.8	1834.2	1855.7	1753.7	1601.4
32.5°	1762.5	1769.3	1776.6	1779.5	1812.7	1882.0	1910.8	1980.6	2011.3	1891.3	1709.3
35°	1879.1	1884.9	1899.1	1922.0	1967.4	2038.1	2063.5	2132.3	2162.1	2034.2	1839.5
37.5°	2007.9	2011.8	2024.0	2055.7	2121.1	2188.4	2213.8	2279.7	2283.1	2172.3	1986.9
40°	2148.9	2148.9	2146.5	2177.7	2246.0	2313.8	2335.8	2373.8	2353.8	2278.7	2130.4
42.5°	2268.5	2266.5	2268.5	2297.7	2348.5	2403.6	2422.6	2415.3	2389.9	2360.2	2260.2
45°	2376.3	2377.8	2395.3	2417.8	2444.1	2476.8	2488.0	2446.6	2423.6	2425.6	2364.1
47.5°	2449.5	2450.9	2491.9	2529.5	2545.6	2555.9	2551.0	2493.4	2481.7	2503.6	2444.1
50°	2459.2	2467.0	2537.8	2614.9	2654.9	2656.4	2642.7	2572.4	2569.0	2593.9	2487.1
52.5°	2461.2	2469.0	2557.3	2696.4	2800.3	2822.3	2806.7	2733.5	2697.8	2673.0	2539.7
55°	2453.9	2462.7	2560.2	2751.0	2950.1	3037.9	3039.4	2936.0	2822.3	2805.7	2690.0
57.5°	2166.5	2169.9	2321.1	2612.0	2944.3	3193.1	3212.1	3071.6	2941.8	2926.2	2810.6
60°	1509.2	1522.9	1687.3	2071.3	2473.4	2912.0	2973.5	2932.5	2845.7	2732.0	2411.4
62.5°	755.8	767.5	932.5	1295.5	1705.9	2052.3	2118.2	2161.6	2182.1	2060.1	1641.9
65°	325.5	334.2	436.7	676.8	965.6	1133.0	1155.9	1208.1	1336.0	1192.0	884.6
67.5°	217.6	223.5	275.7	412.8	568.9	579.7	576.3	587.5	615.3	507.9	399.6
70°	166.9	171.8	206.9	302.5	408.9	349.9	331.3	300.6	326.4	332.8	324.0
72.5°	121.0	124.9	151.3	206.4	256.2	223.5	220.6	236.2	271.3	281.1	275.7
75°	78.1	80.0	96.1	113.2	132.2	143.5	149.3	177.6	213.2	220.6	214.2
77.5°	52.2	53.7	62.9	72.7	75.1	75.6	77.6	90.3	114.7	128.3	126.9
80°	27.3	27.3	30.7	30.7	35.1	42.0	43.9	52.2	63.4	70.3	70.8
82.5°	10.7	11.2	13.2	14.6	17.6	21.5	22.9	27.3	33.2	38.1	42.5
85°	4.4	4.9	5.4	6.3	7.8	9.8	10.2	11.7	15.6	19.5	22.0
87.5°	0.0	0.0	0.5	0.5	1.0	1.5	1.5	2.0	2.4	4.4	5.9
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°	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4	1077.4
2.5°	1080.8	1074.5	1080.8	1082.7	1088.1	1090.1	1086.7	1086.2	1086.2	1081.3	1079.8
5°	1088.1	1082.3	1088.6	1091.5	1099.3	1104.2	1105.2	1109.1	1111.5	1109.6	1109.1
7.5°	1106.2	1098.8	1105.7	1110.1	1120.3	1128.1	1131.5	1140.3	1146.7	1145.7	1145.2
10°	1137.9	1128.1	1135.9	1143.3	1154.5	1163.7	1164.2	1169.1	1175.5	1173.5	1172.5
12.5°	1174.5	1165.2	1174.0	1181.3	1194.5	1198.4	1192.0	1190.1	1191.1	1188.6	1186.7
15°	1219.4	1206.2	1214.0	1222.3	1229.6	1225.2	1211.6	1206.2	1205.7	1202.3	1200.3
17.5°	1264.3	1247.7	1253.5	1257.9	1254.5	1240.8	1223.8	1214.5	1210.1	1203.3	1201.3
20°	1308.7	1287.7	1286.7	1283.3	1267.7	1242.8	1219.9	1201.3	1190.1	1180.8	1177.4
22.5°	1359.4	1330.1	1315.5	1299.9	1265.7	1225.2	1190.6	1164.2	1146.2	1134.5	1130.6
25°	1414.1	1372.6	1342.3	1311.1	1246.2	1187.7	1139.3	1103.2	1081.8	1069.1	1064.7
27.5°	1468.2	1411.1	1365.8	1312.6	1207.2	1133.5	1068.6	1019.8	998.3	988.1	984.7
30°	1541.4	1462.4	1393.6	1293.5	1155.9	1058.4	977.4	928.1	913.9	906.6	903.7
32.5°	1625.8	1527.3	1430.7	1253.5	1090.6	970.5	885.1	851.0	841.2	827.1	826.6
35°	1737.1	1620.0	1465.8	1194.5	1008.1	876.3	814.4	790.0	772.4	750.0	748.0
37.5°	1866.9	1735.6	1484.8	1119.3	912.0	798.8	761.7	734.4	706.1	676.3	672.4
40°	2001.1	1870.8	1486.3	1030.5	817.8	747.5	716.3	680.7	645.5	612.4	608.0
42.5°	2142.1	1996.7	1460.4	928.1	740.7	703.1	671.4	626.5	587.0	564.6	562.1
45°	2268.0	2098.2	1401.9	820.2	683.6	666.0	625.5	577.2	556.3	540.2	536.7
47.5°	2367.0	2165.5	1322.8	723.6	637.3	628.0	575.3	550.4	534.3	519.7	516.2
50°	2415.8	2180.6	1219.9	645.1	594.3	583.1	547.0	528.0	517.2	505.5	502.6
52.5°	2476.3	2197.7	1131.1	579.2	552.4	537.2	523.6	508.4	500.6	493.3	490.9
55°	2615.4	2262.1	1084.2	526.5	512.3	505.5	503.6	490.9	488.4	483.6	479.2
57.5°	2672.0	2220.6	973.4	483.6	480.6	481.6	486.5	474.8	472.3	466.5	463.5
60°	2148.9	1678.5	659.2	446.5	454.3	460.6	465.5	453.8	450.4	449.4	445.5
62.5°	1377.0	1032.5	460.1	411.8	423.5	431.3	434.3	423.0	420.6	428.4	428.9
65°	716.8	562.6	373.3	374.7	384.5	396.2	402.1	398.2	397.2	405.5	406.0
67.5°	366.0	344.0	325.5	330.8	338.6	353.8	367.4	384.5	390.4	391.3	391.8
70°	311.8	302.0	292.8	296.2	304.5	312.8	325.9	334.2	324.5	322.0	321.1
72.5°	265.4	258.1	253.7	257.6	262.0	260.6	256.7	260.6	262.0	262.5	263.0
75°	206.4	201.0	197.6	198.1	198.1	192.7	185.4	181.0	176.1	172.2	172.2
77.5°	126.4	127.4	130.8	130.3	129.8	127.8	120.5	116.6	104.9	101.5	101.5
80°	72.2	73.7	77.1	78.1	78.1	75.6	68.3	63.9	58.6	56.1	55.6
82.5°	43.9	45.9	47.8	48.8	49.3	46.4	40.0	36.6	33.7	31.2	31.2
85°	22.9	23.9	25.9	26.3	24.9	22.0	18.5	17.1	14.2	13.7	13.7
87.5°	6.3	6.8	7.8	6.3	5.9	4.4	2.4	2.0	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)