

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: P631816

Luminaire Tested: GWS-SA2B-740-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-740-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

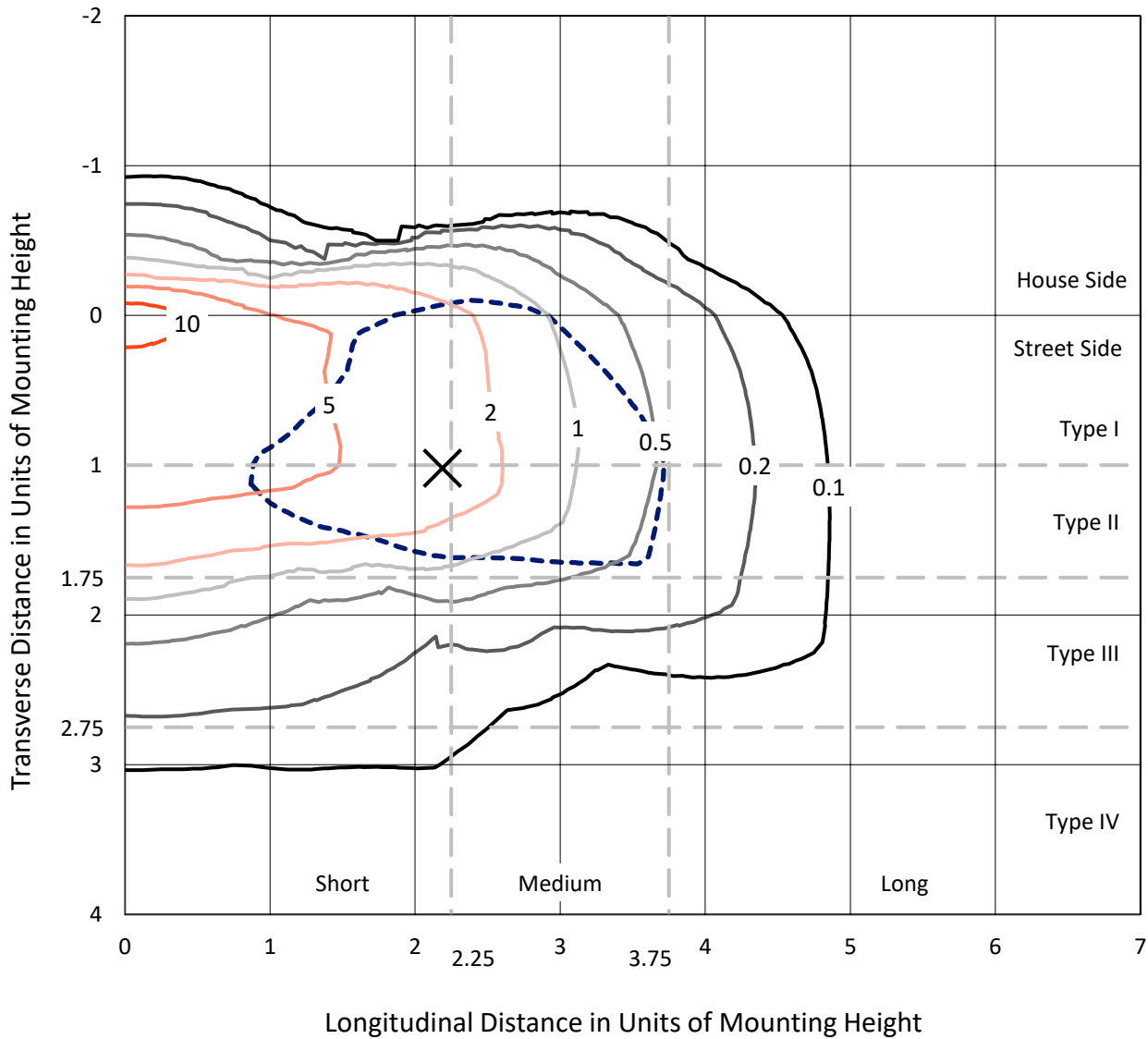
Lumens per Lamp: N/A  
Luminaire Lumens: 5470.7 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

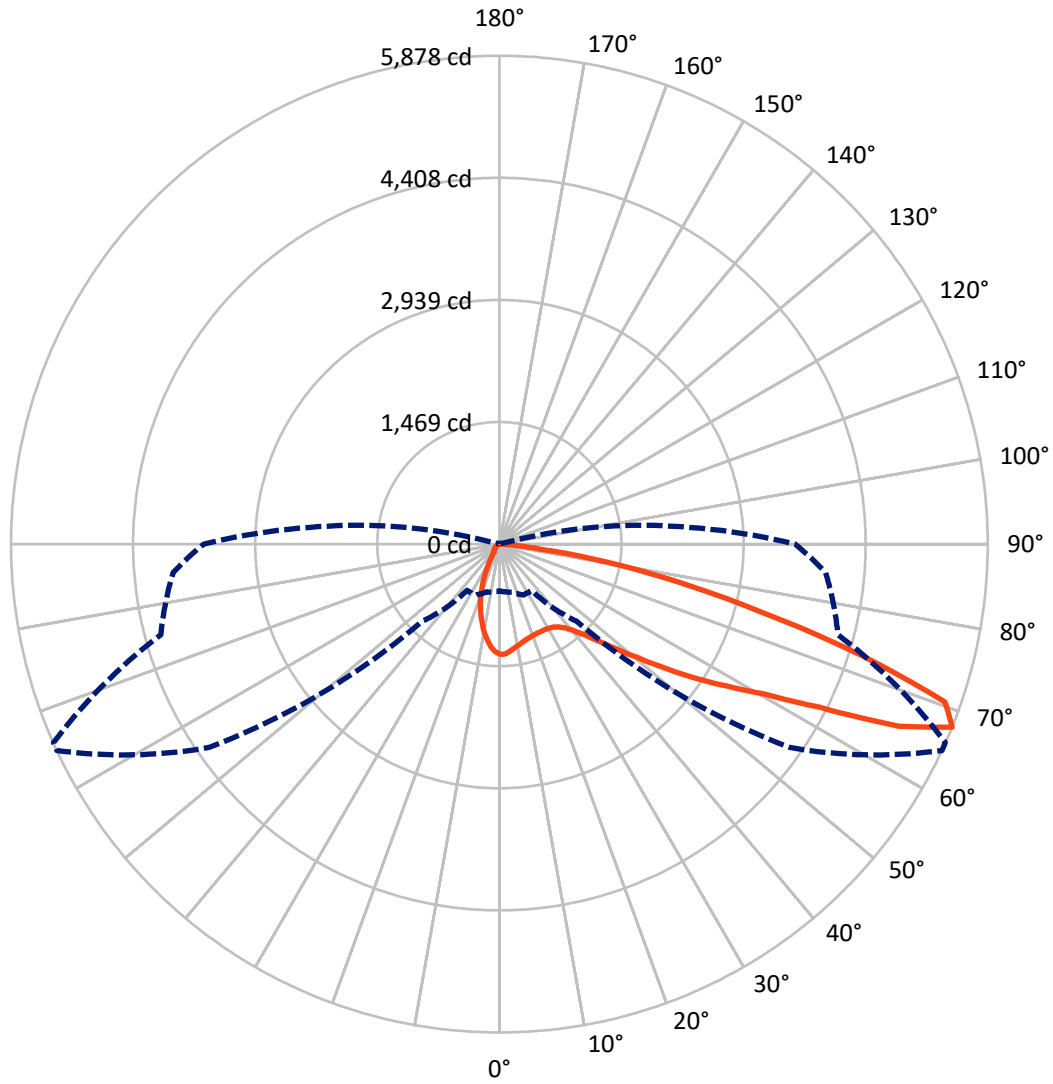
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	683.1	0.0	683.1
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	4787.6	0.0	4787.6
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	5470.7	0.0	5470.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.2	2.0
10°-20°	247.7	4.5
20°-30°	354.0	6.5
30°-40°	515.0	9.4
40°-50°	806.6	14.7
50°-60°	1258.3	23.0
60°-70°	1382.1	25.3
70°-80°	735.6	13.4
80°-90°	61.3	1.1
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°	5470.7	100.0
0°-180°	5470.7	100.0

**Coefficient of Utilization**

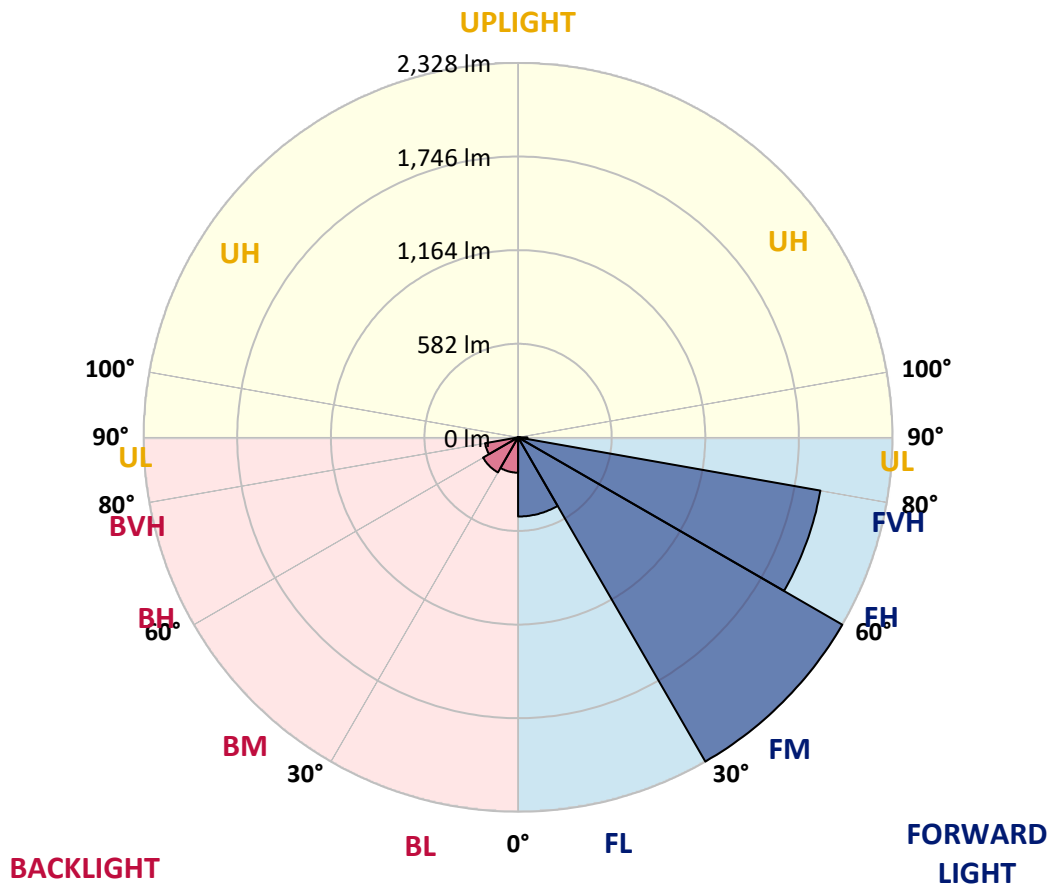


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.3	9.0			
FM (30°-60°)	2328.2	42.6			
FH (60°-80°)	1909.1	34.9			G2/5000
FVH (80°-90°)	58.0	1.1			G1/100
BL (0°-30°)	219.6	4.0	B1/500		
BM (30°-60°)	251.6	4.6	B1/1000		
BH (60°-80°)	208.6	3.8	B1/500		G1/500
BVH (80°-90°)	3.3	0.1			G0/10
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°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1280.8	1284.8	1279.3	1292.7	1295.2	1310.0	1318.4	1324.3	1323.8	1331.3	1331.3
5°	1205.6	1209.6	1206.6	1220.9	1232.3	1255.6	1274.9	1297.1	1298.1	1320.9	1329.3
7.5°	1141.8	1142.3	1142.3	1160.1	1174.9	1203.6	1232.3	1266.5	1270.4	1305.5	1327.8
10°	1089.4	1090.8	1091.3	1111.6	1127.9	1162.6	1199.2	1240.2	1244.7	1292.2	1326.8
12.5°	1053.2	1053.7	1055.7	1077.0	1094.8	1130.9	1168.0	1215.0	1220.9	1276.9	1322.4
15°	1035.9	1034.9	1035.9	1053.7	1071.5	1106.2	1144.3	1194.7	1201.2	1264.0	1322.9
17.5°	1034.9	1033.5	1032.5	1045.8	1057.2	1087.9	1126.5	1181.4	1188.3	1258.1	1328.3
20°	1049.3	1048.3	1043.3	1049.3	1051.8	1077.0	1115.1	1171.0	1177.9	1257.1	1340.2
22.5°	1086.9	1084.4	1077.0	1071.5	1058.2	1073.0	1107.2	1163.6	1171.5	1259.5	1355.5
25°	1142.8	1141.8	1132.4	1119.0	1084.9	1079.0	1107.7	1163.6	1171.0	1262.5	1371.8
27.5°	1226.9	1220.9	1209.1	1185.8	1136.8	1102.2	1117.6	1166.5	1174.0	1266.5	1385.2
30°	1312.5	1312.0	1308.0	1284.3	1211.5	1146.7	1138.3	1174.4	1181.4	1269.9	1397.6
32.5°	1401.0	1402.5	1412.4	1394.1	1314.4	1213.0	1175.9	1190.8	1195.7	1276.9	1408.4
35°	1485.1	1488.1	1514.3	1520.7	1439.6	1313.5	1237.3	1223.4	1223.9	1292.2	1422.8
37.5°	1565.8	1575.7	1617.7	1648.9	1595.4	1435.2	1325.8	1278.8	1274.9	1322.9	1444.6
40°	1657.3	1676.1	1729.0	1782.0	1765.1	1595.9	1446.5	1363.9	1355.5	1379.3	1483.6
42.5°	1758.7	1779.0	1849.2	1923.4	1931.4	1790.4	1597.4	1488.1	1473.7	1474.2	1556.9
45°	1867.5	1894.7	1976.4	2083.2	2131.2	2007.0	1783.4	1655.8	1641.5	1620.2	1674.6
47.5°	2010.5	2034.3	2112.9	2236.1	2328.1	2239.6	2027.3	1871.5	1845.3	1814.1	1857.6
50°	2133.7	2154.5	2222.2	2376.6	2568.0	2539.4	2303.9	2141.1	2115.9	2062.9	2099.1
52.5°	2160.9	2177.2	2239.6	2413.2	2751.6	2917.8	2642.8	2467.1	2449.3	2351.4	2365.2
55°	2038.7	2063.4	2119.3	2312.3	2799.6	3287.9	3082.5	2834.7	2797.6	2641.3	2666.0
57.5°	1730.0	1774.0	1826.5	2077.3	2669.5	3484.8	3697.0	3224.0	3190.4	2920.3	2920.8
60°	1267.9	1303.6	1338.7	1568.2	2360.8	3471.4	4254.5	3661.4	3600.0	3148.3	3139.9
62.5°	922.1	940.4	940.0	1021.6	1621.2	3242.8	4547.4	4320.3	4177.3	3392.2	3344.3
65°	725.2	724.8	746.0	772.7	905.3	2503.2	4583.5	5282.5	5128.2	3719.2	3619.3
67.5°	564.5	575.3	596.6	675.3	680.2	1310.0	4265.9	5877.7	5874.7	4218.4	3941.4
70°	435.3	450.2	480.4	595.1	628.3	733.2	3191.9	5689.2	5737.2	4441.5	3713.3
72.5°	279.5	278.5	323.0	480.9	603.5	611.0	1765.1	4519.2	4573.6	4023.0	3002.4
75°	156.3	157.3	182.5	294.4	562.5	574.9	874.2	3222.6	3265.6	3136.5	2306.8
77.5°	61.3	63.3	85.6	154.8	371.0	513.5	519.4	2197.5	2203.9	1943.7	1414.9
80°	24.7	26.2	43.5	96.0	226.1	345.8	371.0	1294.7	1268.4	752.5	411.6
82.5°	7.4	7.9	17.3	54.4	118.2	245.9	250.3	496.7	469.0	161.8	104.9
85°	0.5	0.5	4.0	16.8	42.1	61.8	166.7	161.8	143.5	40.6	46.5
87.5°	0.0	0.0	0.5	0.5	1.0	2.0	17.8	29.7	30.2	7.4	20.8
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°	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1331.3	1313.5	1312.0	1298.1	1284.3	1267.0	1246.7	1231.8	1221.4	1203.1	1199.7
5°	1329.3	1305.5	1283.3	1243.7	1199.7	1152.2	1110.6	1072.0	1047.8	1031.5	1024.5
7.5°	1325.3	1295.2	1243.7	1169.0	1095.3	1012.2	947.4	888.0	847.4	823.7	813.3
10°	1322.4	1281.8	1198.2	1084.9	970.6	855.9	757.4	669.3	620.4	581.8	575.3
12.5°	1316.4	1262.5	1139.8	986.5	839.0	686.7	561.0	453.2	378.5	344.8	332.9
15°	1310.5	1242.2	1081.4	882.6	695.6	507.6	355.2	251.3	199.9	184.0	183.0
17.5°	1309.5	1223.9	1018.1	784.1	545.2	332.4	202.3	162.8	151.9	147.9	147.9
20°	1312.5	1208.6	955.8	670.8	397.3	202.3	150.9	141.0	134.6	131.1	131.1
22.5°	1315.4	1192.8	895.9	556.6	263.7	147.9	133.1	124.7	117.2	113.3	111.3
25°	1317.4	1175.4	829.6	441.8	172.2	128.6	116.8	105.9	97.0	92.0	92.0
27.5°	1316.9	1154.7	762.8	329.5	133.6	114.3	99.9	88.6	79.6	74.2	74.7
30°	1313.0	1131.9	693.6	230.0	116.8	99.9	85.6	73.7	64.8	60.4	59.9
32.5°	1310.0	1107.7	613.4	161.8	104.9	87.6	72.7	61.3	53.9	50.5	50.0
35°	1306.5	1083.9	537.3	123.2	94.5	75.7	61.3	51.9	46.0	43.0	43.0
37.5°	1307.5	1059.2	454.6	105.9	84.1	65.8	52.4	44.5	39.6	36.6	36.1
40°	1322.9	1044.3	373.5	96.0	74.7	56.9	45.5	38.6	33.6	30.7	30.2
42.5°	1361.0	1044.8	295.8	88.6	66.3	48.5	39.6	33.1	28.7	25.2	24.7
45°	1437.1	1065.6	227.1	80.6	57.4	42.1	34.1	28.2	23.7	20.8	20.3
47.5°	1561.8	1127.4	172.2	73.7	50.0	36.6	29.2	23.7	19.8	17.3	16.8
50°	1760.2	1239.3	135.6	65.3	42.1	31.7	24.7	19.8	16.3	13.9	13.4
52.5°	1998.6	1407.0	116.3	57.9	36.1	27.7	21.3	16.3	13.4	11.4	10.9
55°	2272.7	1607.3	107.4	50.5	30.7	23.7	17.3	13.4	10.9	9.4	8.4
57.5°	2524.0	1787.9	106.9	43.0	26.2	20.3	14.3	11.4	9.4	7.4	6.9
60°	2768.9	1938.8	100.4	35.6	22.8	16.8	12.4	9.4	7.9	6.4	5.9
62.5°	2991.0	2061.5	84.1	28.7	19.3	13.9	10.4	8.4	6.9	5.4	5.4
65°	3270.0	2217.8	64.3	23.3	15.8	11.4	8.9	7.4	6.4	4.9	4.9
67.5°	3558.5	2300.4	46.0	19.3	12.9	9.9	7.9	6.9	5.4	4.5	4.5
70°	3223.0	1943.7	33.1	15.8	10.9	8.4	6.9	6.4	5.4	4.5	4.0
72.5°	2517.1	1401.5	24.7	12.4	9.4	7.9	6.4	5.9	4.9	4.0	4.0
75°	1866.5	817.3	18.8	9.9	7.4	6.4	6.4	5.9	4.9	4.0	3.5
77.5°	1014.7	285.0	14.3	7.9	5.9	4.9	5.4	5.4	4.5	3.5	3.0
80°	268.6	78.2	9.9	5.9	4.9	4.0	4.0	4.9	4.0	3.0	3.0
82.5°	78.2	22.8	6.9	4.9	4.0	3.5	3.5	3.5	3.0	2.5	2.0
85°	38.1	8.4	4.9	4.0	3.5	3.0	2.5	2.5	2.0	1.5	1.5
87.5°	16.8	3.5	4.0	3.5	3.5	2.5	2.0	1.5	1.5	1.0	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)