

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: P630332

Luminaire Tested: GWS-SA1D-740-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P630332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1D-740-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

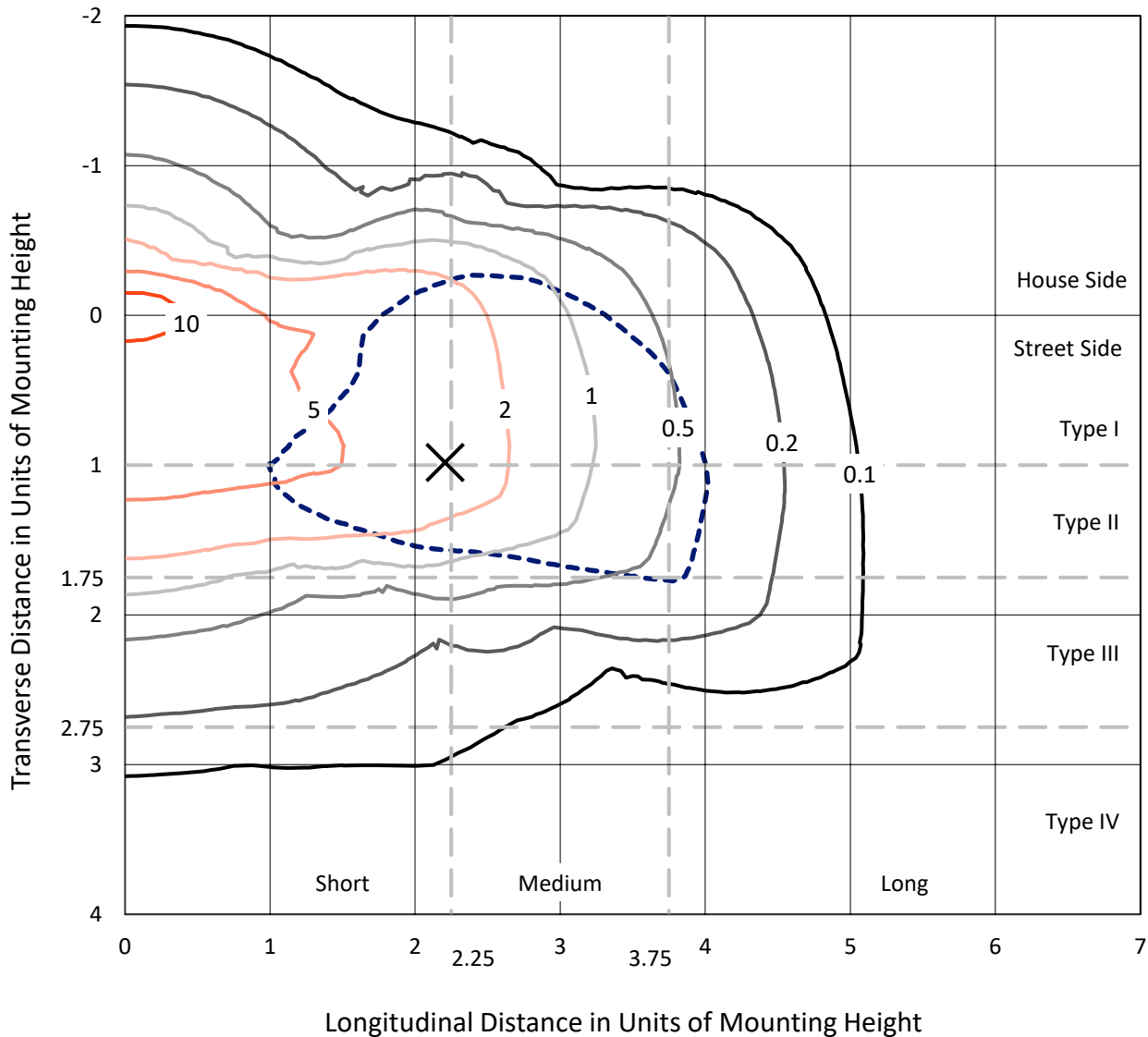
Lumens per Lamp: N/A  
Luminaire Lumens: 5958.8 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 44.3  
Input Voltage (V): 120  
Input Current (Ain): 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

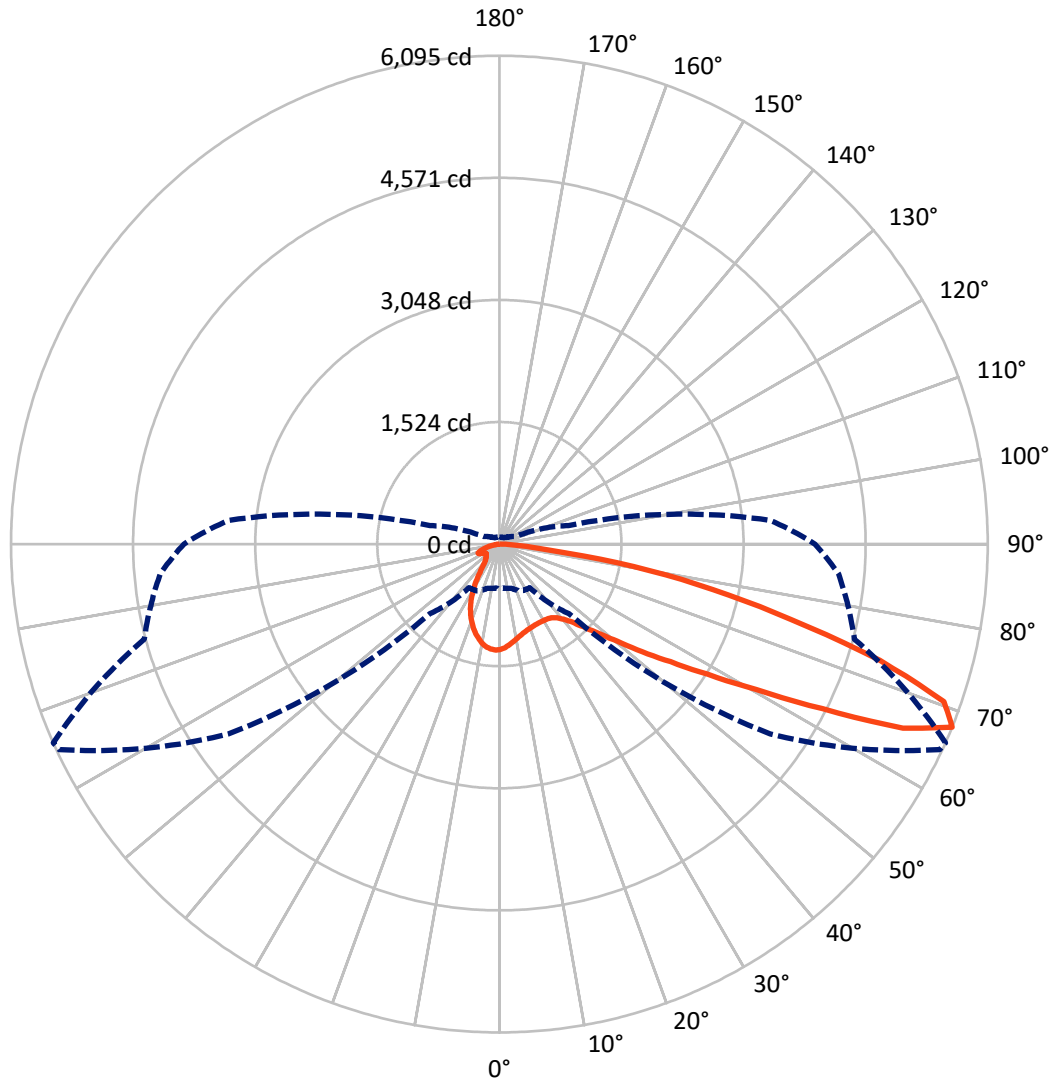
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1209.2	0.0	1209.2
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	4749.6	0.0	4749.6
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	5958.8	0.0	5958.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.6	1.9
10°-20°	284.0	4.8
20°-30°	390.4	6.6
30°-40°	533.7	9.0
40°-50°	808.7	13.6
50°-60°	1257.1	21.1
60°-70°	1530.5	25.7
70°-80°	932.3	15.6
80°-90°	106.5	1.8
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°	5958.8	100.0
0°-180°	5958.8	100.0

**Coefficient of Utilization**



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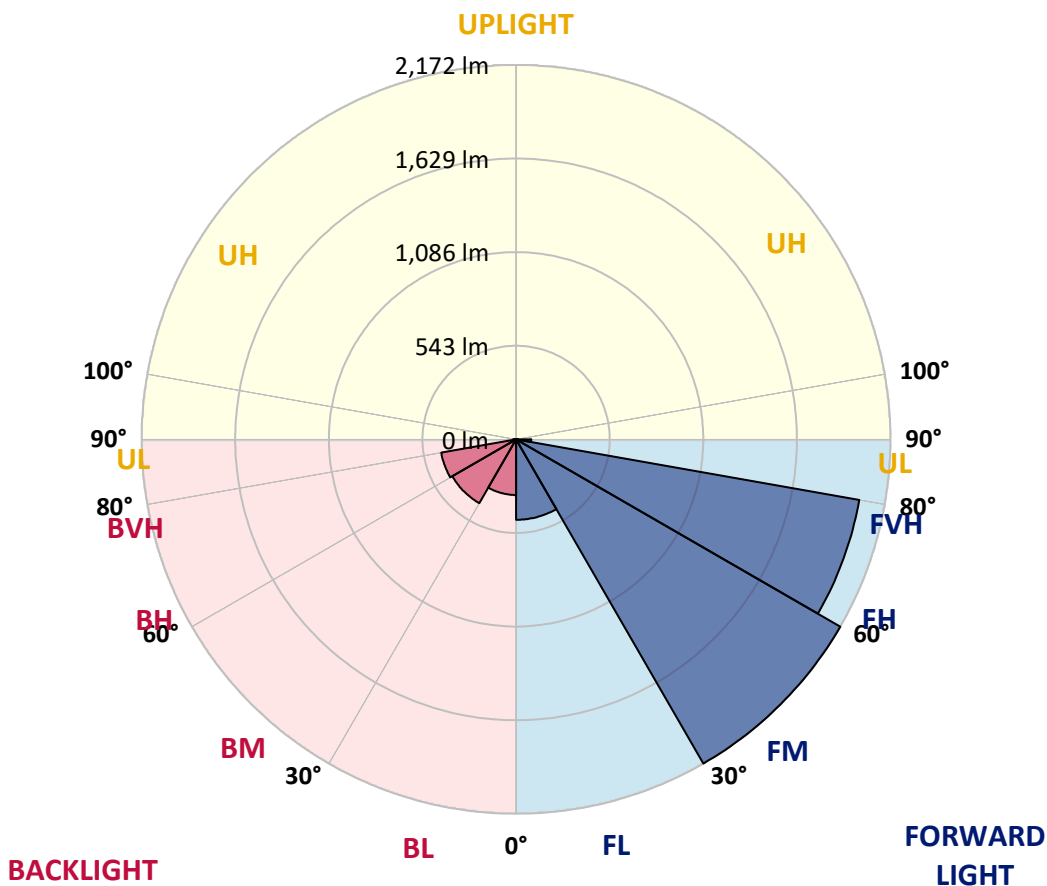
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	466.9	7.8			
FM (30°-60°)	2172.2	36.5			
FH (60°-80°)	2022.0	33.9			G2/5000
FVH (80°-90°)	88.5	1.5			G1/100
BL (0°-30°)	323.0	5.4	B1/500		
BM (30°-60°)	427.3	7.2	B1/1000		
BH (60°-80°)	440.9	7.4	B1/500		G1/500
BVH (80°-90°)	17.9	0.3			G1/100
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°	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7
2.5°	1233.3	1237.6	1235.0	1251.5	1252.4	1273.3	1285.0	1295.0	1295.9	1308.9	1317.6
5°	1148.9	1151.5	1151.5	1167.2	1177.6	1205.4	1232.4	1261.1	1263.3	1294.6	1318.5
7.5°	1080.7	1083.3	1081.5	1102.4	1115.9	1146.8	1181.1	1225.0	1229.3	1279.8	1321.5
10°	1027.2	1026.3	1030.7	1049.8	1067.2	1104.2	1142.4	1192.4	1198.9	1262.8	1325.0
12.5°	990.7	991.6	994.2	1014.2	1032.9	1069.4	1108.9	1163.3	1170.2	1243.3	1323.2
15°	973.3	971.6	973.7	992.0	1009.8	1042.0	1082.9	1138.9	1145.9	1225.9	1323.7
17.5°	969.4	968.1	967.7	980.7	994.2	1024.2	1063.3	1120.2	1127.6	1214.6	1326.3
20°	981.6	979.8	975.0	980.7	986.3	1011.6	1049.4	1106.8	1115.0	1207.2	1331.5
22.5°	1015.0	1012.0	1004.6	997.7	990.3	1005.5	1040.7	1096.8	1105.0	1202.4	1336.7
25°	1065.9	1063.3	1055.5	1039.8	1012.9	1010.3	1038.9	1092.4	1100.7	1198.9	1338.9
27.5°	1135.9	1132.0	1124.2	1101.5	1057.6	1028.1	1045.5	1092.0	1099.8	1195.0	1336.7
30°	1218.9	1216.3	1212.0	1184.6	1125.9	1065.9	1060.2	1095.5	1101.5	1192.8	1332.4
32.5°	1303.2	1300.6	1304.1	1291.1	1218.9	1128.5	1092.4	1105.0	1109.4	1192.4	1328.5
35°	1377.6	1380.6	1405.8	1408.0	1337.2	1213.3	1143.3	1127.2	1128.1	1201.1	1330.2
37.5°	1455.4	1467.1	1500.2	1528.4	1469.3	1325.4	1218.9	1168.9	1168.1	1223.3	1341.1
40°	1558.4	1563.6	1605.8	1658.8	1621.9	1479.3	1326.3	1237.2	1231.1	1268.5	1370.2
42.5°	1658.8	1671.4	1738.8	1799.7	1787.5	1652.8	1461.5	1339.3	1328.5	1348.5	1430.2
45°	1786.6	1798.8	1874.5	1952.7	1974.9	1848.8	1634.5	1484.5	1473.7	1468.9	1540.2
47.5°	1914.4	1927.1	1994.9	2107.9	2185.7	2094.0	1859.7	1676.2	1658.4	1639.7	1706.2
50°	2000.5	2015.3	2080.1	2215.7	2398.3	2400.0	2126.6	1927.5	1904.9	1875.3	1940.1
52.5°	1997.5	2007.0	2068.8	2225.3	2551.3	2751.7	2483.9	2247.4	2229.2	2164.8	2221.3
55°	1840.5	1854.9	1917.1	2112.7	2567.8	3085.1	3009.0	2624.8	2592.2	2477.0	2539.1
57.5°	1525.4	1537.6	1600.2	1841.4	2421.3	3256.0	3675.9	3105.5	3060.8	2816.9	2888.6
60°	1151.5	1136.8	1166.3	1377.6	2070.9	3260.3	4264.5	3757.6	3682.8	3180.3	3240.3
62.5°	864.2	849.4	855.9	915.5	1404.1	2996.9	4600.1	4649.6	4526.2	3590.7	3578.9
65°	682.9	674.7	693.4	734.2	818.6	2282.2	4602.7	5614.2	5536.4	4066.2	3926.3
67.5°	556.4	551.2	570.3	646.0	663.8	1226.3	4127.1	6064.6	6095.0	4587.0	4248.4
70°	448.2	440.4	470.4	569.9	617.3	742.0	2956.4	5835.1	5884.2	4897.4	4157.5
72.5°	309.5	309.9	325.2	461.7	596.0	640.8	1672.3	4858.7	4965.2	4616.1	3655.0
75°	208.7	210.4	214.7	304.7	549.0	621.6	891.1	3678.5	3753.7	3815.4	3021.2
77.5°	126.1	126.9	136.9	184.3	378.6	580.3	603.8	2666.5	2725.6	2515.2	1872.7
80°	73.0	76.1	85.2	123.5	255.6	436.0	467.3	1634.9	1701.9	1118.1	595.1
82.5°	32.2	34.3	46.5	71.7	149.1	370.8	364.7	646.0	636.4	311.7	206.5
85°	5.7	7.0	10.0	22.6	54.8	195.6	283.0	285.2	268.2	118.2	85.6
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	42.6	76.5	76.1	33.5	29.6
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°	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7	1316.7
2.5°	1323.2	1311.5	1321.9	1323.2	1321.1	1319.3	1306.3	1295.0	1293.7	1281.5	1281.5
5°	1328.0	1317.2	1322.4	1312.4	1296.7	1280.6	1252.8	1233.7	1225.0	1209.4	1209.4
7.5°	1334.5	1323.2	1317.2	1292.4	1255.9	1220.7	1175.9	1138.5	1123.3	1101.1	1100.2
10°	1340.6	1326.3	1305.4	1257.2	1198.9	1142.8	1077.6	1024.6	988.5	962.0	962.0
12.5°	1340.2	1321.5	1280.2	1208.9	1128.5	1047.2	960.3	880.3	832.5	791.2	788.6
15°	1339.3	1313.7	1248.0	1152.8	1046.3	933.7	815.5	711.2	640.3	599.9	596.4
17.5°	1338.5	1303.7	1212.0	1088.9	946.4	792.9	636.8	523.8	464.7	439.9	440.8
20°	1338.5	1292.4	1173.3	1015.5	831.2	624.2	467.3	385.1	370.4	371.7	373.0
22.5°	1334.5	1278.5	1130.2	935.5	702.9	459.0	344.7	316.9	324.7	336.9	338.6
25°	1325.4	1255.4	1080.2	846.8	550.3	334.3	281.3	276.0	290.4	305.6	309.9
27.5°	1311.1	1228.9	1024.2	742.9	405.1	268.6	247.3	246.9	258.2	269.5	273.4
30°	1295.9	1199.4	965.0	627.3	293.4	233.9	225.6	225.6	231.3	238.2	237.3
32.5°	1278.0	1169.4	901.6	506.9	239.1	214.3	211.7	210.4	211.3	213.9	213.9
35°	1262.8	1142.8	836.4	379.5	214.3	203.4	200.8	197.8	196.5	194.7	195.6
37.5°	1257.2	1122.0	769.0	286.0	202.1	195.6	191.3	186.9	183.9	183.0	182.6
40°	1266.3	1113.3	701.6	235.6	193.4	187.4	182.6	176.9	174.3	174.3	174.3
42.5°	1301.9	1119.8	632.9	213.0	187.4	180.4	173.4	168.2	167.4	168.2	168.7
45°	1367.2	1145.0	561.6	201.7	182.1	173.4	165.2	161.3	161.3	162.1	162.1
47.5°	1483.7	1211.1	491.2	194.7	176.9	167.8	159.1	155.2	154.8	155.6	155.6
50°	1685.4	1330.2	427.8	190.0	173.0	163.4	154.8	149.5	148.2	147.8	147.8
52.5°	1939.7	1536.7	387.3	186.5	168.2	158.7	150.0	143.0	140.4	139.1	139.1
55°	2247.0	1811.9	387.3	183.9	162.1	153.0	143.0	136.1	132.2	130.4	130.4
57.5°	2595.2	2132.2	454.3	181.7	157.4	146.5	135.6	128.7	124.3	121.7	121.7
60°	2949.5	2470.9	619.9	178.7	153.0	138.2	127.4	120.8	115.2	112.2	111.7
62.5°	3316.8	2843.8	838.1	180.4	150.0	130.4	118.7	111.3	106.5	103.5	103.0
65°	3653.3	3199.0	1029.0	193.9	150.4	123.5	108.7	102.2	98.2	94.3	93.9
67.5°	3938.9	3395.1	895.1	221.3	159.5	115.2	98.7	92.2	88.7	86.1	85.6
70°	3738.9	3096.0	507.7	238.2	172.1	106.5	87.4	83.0	79.6	77.8	77.4
72.5°	3197.3	2621.3	339.5	210.4	156.9	95.2	76.9	73.5	70.9	68.7	68.2
75°	2590.0	2078.8	259.5	172.6	122.2	77.4	66.1	63.5	60.9	58.7	58.3
77.5°	1532.3	1201.1	191.3	136.5	86.1	60.4	54.8	52.6	50.0	48.3	47.8
80°	489.0	417.3	121.3	93.9	56.9	46.5	42.2	40.4	37.8	35.6	35.2
82.5°	186.5	161.3	64.3	47.8	37.8	31.7	28.3	26.5	24.8	22.6	22.2
85°	82.6	77.4	35.6	25.6	20.4	15.6	13.9	13.0	10.9	9.1	8.7
87.5°	29.1	29.1	15.2	7.4	4.3	2.2	1.3	0.4	0.0	0.0	0.0
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)