

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: P630778

Luminaire Tested: GWS-SA1E-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7177.7 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

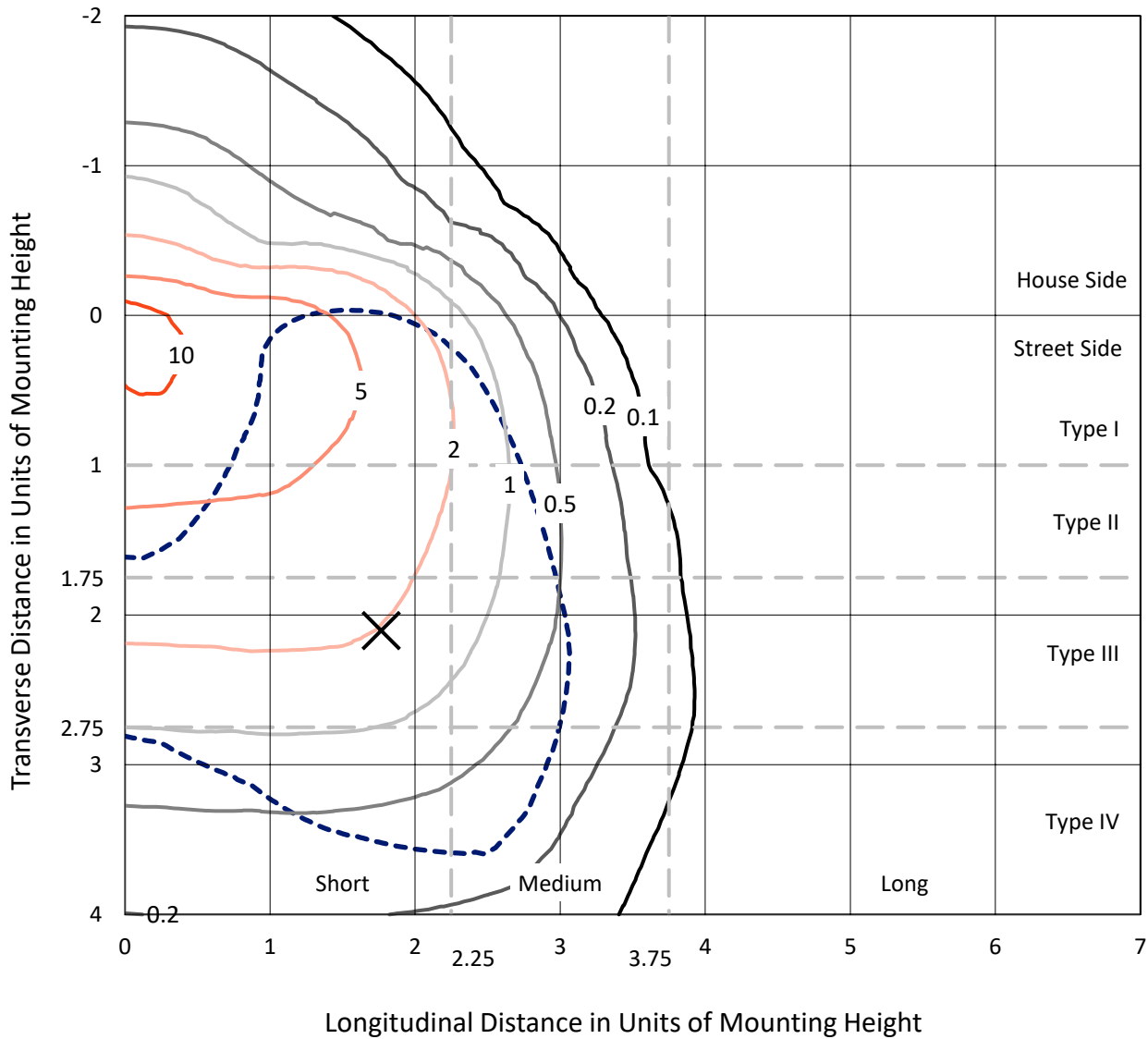
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

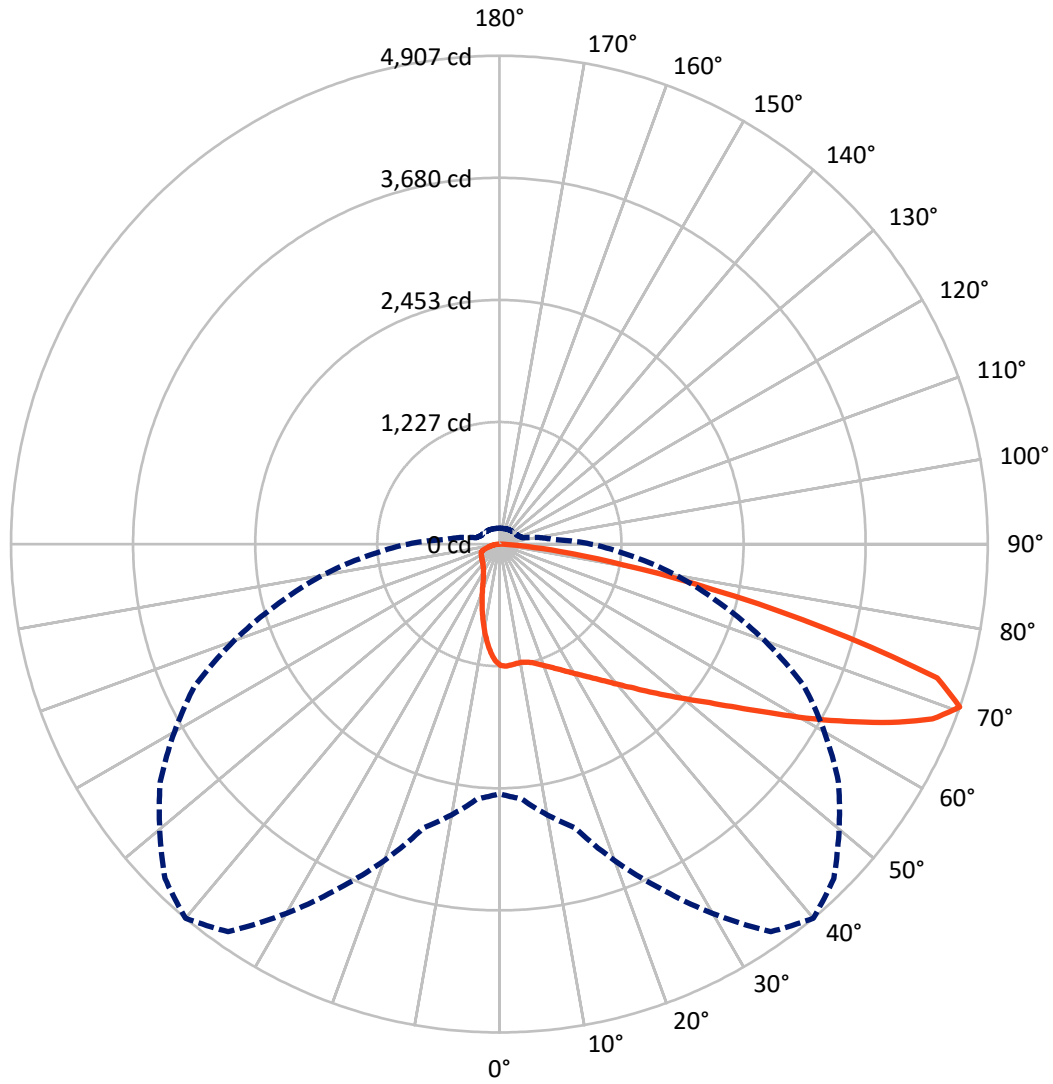
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1105.6	0.0	1105.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	6072.2	0.0	6072.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	7177.7	0.0	7177.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	1.5
10°-20°	280.7	3.9
20°-30°	440.7	6.1
30°-40°	662.6	9.2
40°-50°	1022.7	14.2
50°-60°	1518.9	21.2
60°-70°	1914.5	26.7
70°-80°	1107.1	15.4
80°-90°	122.9	1.7
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°	7177.7	100.0
0°-180°	7177.7	100.0

Coefficient of Utilization



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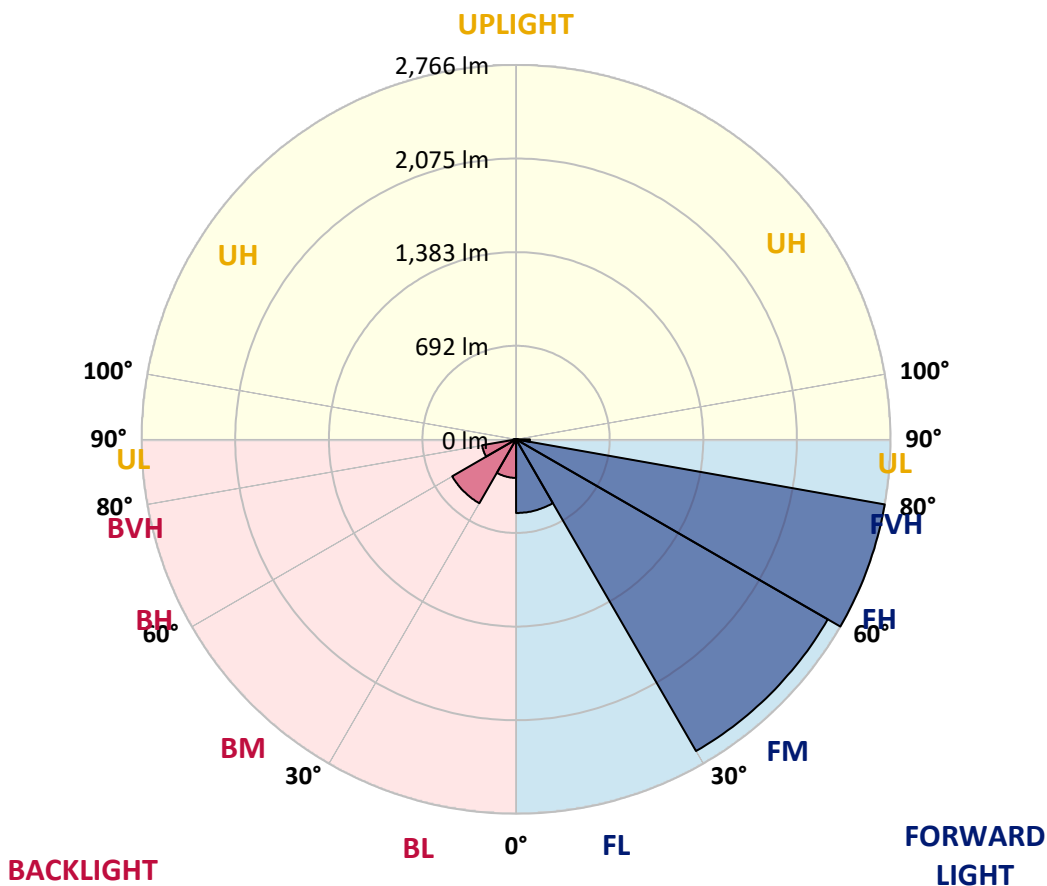
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.1	7.6			
FM (30°-60°)	2659.3	37.0			
FH (60°-80°)	2766.5	38.5			G2/5000
FVH (80°-90°)	102.3	1.4			G2/225
BL (0°-30°)	284.9	4.0	B1/500		
BM (30°-60°)	544.9	7.6	B1/1000		
BH (60°-80°)	255.2	3.6	B1/500		G1/500
BVH (80°-90°)	20.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1226.4	1228.5	1230.1	1232.2	1231.2	1228.0	1230.6	1230.6	1224.7	1218.3	1212.4
5°	1228.0	1230.6	1230.1	1229.6	1225.3	1219.9	1219.9	1216.7	1206.5	1196.4	1186.7
7.5°	1224.7	1224.2	1223.7	1222.1	1217.2	1211.4	1210.3	1203.9	1190.5	1176.5	1162.6
10°	1210.3	1209.7	1211.4	1215.1	1214.0	1208.7	1208.7	1202.8	1187.2	1170.1	1151.9
12.5°	1198.5	1198.5	1204.9	1215.1	1218.9	1216.7	1217.2	1213.0	1195.3	1174.9	1153.5
15°	1200.1	1200.6	1214.6	1231.2	1238.1	1236.5	1237.1	1232.2	1212.4	1192.1	1163.1
17.5°	1210.8	1213.5	1237.6	1260.6	1269.8	1267.6	1263.9	1255.8	1233.3	1210.3	1174.9
20°	1233.3	1237.6	1268.7	1297.6	1308.3	1303.5	1297.1	1281.0	1256.4	1231.2	1187.8
22.5°	1277.8	1280.5	1314.8	1343.2	1351.7	1345.8	1333.0	1309.9	1281.5	1255.3	1203.3
25°	1340.5	1343.7	1376.4	1402.6	1400.5	1393.5	1375.8	1347.4	1313.7	1285.8	1225.8
27.5°	1414.9	1420.3	1452.4	1473.3	1459.4	1449.2	1429.4	1395.1	1357.1	1331.9	1260.1
30°	1496.4	1498.5	1525.8	1546.7	1525.3	1511.4	1487.3	1450.3	1416.0	1397.3	1311.5
32.5°	1575.1	1577.3	1600.9	1612.6	1590.1	1580.0	1559.1	1520.0	1495.8	1485.7	1388.2
35°	1658.2	1657.6	1676.9	1687.1	1664.1	1659.8	1638.4	1608.4	1604.1	1617.5	1500.1
37.5°	1741.2	1736.4	1746.6	1760.0	1747.1	1751.4	1737.5	1727.3	1743.9	1778.7	1649.1
40°	1807.7	1807.7	1818.4	1835.0	1839.3	1858.0	1850.0	1863.4	1917.0	2000.0	1833.4
42.5°	1866.6	1867.1	1889.6	1915.3	1946.4	1975.3	1981.8	2016.6	2127.5	2257.7	2064.8
45°	1928.2	1928.7	1959.3	1996.8	2062.7	2117.9	2130.7	2208.9	2367.5	2526.1	2316.1
47.5°	1999.5	1993.6	2035.9	2098.6	2192.3	2271.6	2304.8	2415.7	2616.1	2811.1	2552.9
50°	2079.8	2067.5	2114.6	2222.9	2338.6	2447.4	2503.1	2630.0	2882.9	3074.2	2775.8
52.5°	2170.4	2163.4	2212.7	2344.5	2521.3	2646.7	2722.2	2888.8	3142.2	3336.2	2952.6
55°	2282.9	2266.3	2337.5	2505.2	2735.6	2895.3	2984.7	3144.9	3425.7	3574.1	3087.6
57.5°	2406.1	2387.9	2483.3	2706.1	3014.2	3189.4	3301.4	3433.2	3692.5	3756.2	3166.9
60°	2539.0	2533.1	2646.1	2941.9	3346.4	3550.0	3630.9	3750.3	3924.4	3861.8	3147.1
62.5°	2660.6	2658.4	2822.9	3197.4	3698.4	3922.3	3986.6	4018.2	4091.6	3854.8	2989.5
65°	2788.6	2806.9	3029.2	3493.7	4101.8	4321.4	4348.2	4267.9	4147.9	3672.1	2667.0
67.5°	2804.7	2840.1	3158.8	3771.2	4484.3	4691.7	4670.2	4362.7	3981.8	3163.7	2090.5
70°	2508.4	2570.0	2952.0	3813.5	4753.8	4906.5	4751.7	4158.6	3379.0	2292.0	1314.8
72.5°	2095.9	2148.9	2486.5	3252.1	4406.1	4600.6	4391.1	3519.9	2387.9	1314.8	669.7
75°	1631.4	1693.0	2004.3	2585.0	3298.7	3376.4	3271.4	2454.9	1312.6	542.2	304.3
77.5°	995.4	1039.9	1282.1	1751.4	2308.1	2191.8	1857.5	1376.4	575.9	259.8	188.1
80°	440.4	467.7	631.7	940.8	1333.5	1260.6	993.8	587.7	315.0	165.0	131.3
82.5°	236.3	254.0	311.3	372.4	585.6	612.4	496.7	338.6	169.3	94.3	75.0
85°	103.9	114.1	141.4	135.0	192.3	189.1	190.7	232.5	80.9	43.4	48.8
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	5.9	31.1	8.0	12.9	11.3
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°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1206.0	1196.4	1193.7	1190.5	1184.6	1174.4	1166.9	1158.3	1154.6	1150.3	1150.8
5°	1176.0	1164.2	1153.0	1138.5	1120.3	1099.9	1086.0	1069.9	1061.3	1053.3	1055.4
7.5°	1150.3	1132.1	1109.0	1078.5	1045.8	1009.4	979.9	956.9	941.3	930.6	936.0
10°	1134.2	1112.8	1072.6	1022.8	967.6	911.9	869.5	829.9	805.2	786.0	784.9
12.5°	1131.0	1103.1	1044.7	972.4	892.6	818.1	756.0	702.4	669.7	645.6	654.7
15°	1134.2	1098.8	1020.6	925.8	825.1	724.3	647.2	585.6	546.5	524.5	522.9
17.5°	1138.0	1094.6	993.3	875.4	754.4	639.2	549.7	484.3	444.1	422.2	422.7
20°	1141.2	1088.1	961.2	820.2	682.6	559.9	467.2	405.0	369.1	353.1	355.7
22.5°	1146.5	1081.7	926.9	761.3	609.2	483.3	401.8	351.5	330.0	319.3	319.8
25°	1156.7	1078.0	891.5	697.0	536.8	422.2	356.8	323.1	309.7	303.2	302.7
27.5°	1177.6	1081.2	854.5	634.9	471.5	375.6	327.9	305.9	296.8	292.5	292.0
30°	1212.4	1094.0	822.4	571.7	415.2	339.1	308.1	294.7	289.3	285.6	285.0
32.5°	1265.5	1118.1	787.6	512.7	369.7	312.3	292.5	285.6	281.8	279.7	279.7
35°	1345.8	1162.1	753.3	461.3	334.3	291.5	280.2	277.5	274.3	273.2	274.3
37.5°	1461.6	1232.2	722.2	416.3	309.1	275.4	266.8	267.9	265.2	266.8	268.4
40°	1608.4	1326.0	696.0	379.3	290.4	263.6	255.0	258.8	257.2	258.8	261.5
42.5°	1794.3	1442.3	676.1	350.4	277.0	254.0	245.9	249.7	248.6	250.7	253.4
45°	2001.6	1595.5	667.0	330.0	267.3	247.0	238.4	241.1	240.0	241.6	244.3
47.5°	2200.4	1734.8	675.1	318.2	259.3	241.1	232.0	233.1	232.5	232.0	233.6
50°	2371.8	1845.7	698.1	314.5	254.0	235.2	226.6	227.2	225.6	222.3	223.4
52.5°	2511.6	1934.6	712.0	314.5	251.3	228.8	220.7	221.3	218.1	213.8	214.3
55°	2603.8	1970.5	700.8	314.0	250.2	223.4	214.8	215.4	212.2	206.8	207.3
57.5°	2630.0	1935.7	653.6	308.1	249.1	219.1	208.9	210.0	207.9	202.0	202.0
60°	2556.7	1808.2	567.4	294.7	246.4	216.4	204.7	206.3	205.2	199.3	199.3
62.5°	2364.3	1581.6	464.5	274.3	238.9	213.2	200.9	204.1	206.8	203.6	203.1
65°	2004.3	1267.1	377.7	251.8	229.3	207.9	195.6	203.6	209.5	213.8	213.8
67.5°	1503.9	907.0	308.1	228.2	214.8	197.2	188.6	196.1	200.4	203.1	204.7
70°	916.7	533.6	242.7	200.9	193.9	181.1	174.7	167.2	161.3	160.2	160.7
72.5°	448.4	305.4	197.2	170.9	165.6	153.8	139.3	136.1	133.4	131.8	131.3
75°	247.0	212.7	162.9	142.0	132.3	117.9	114.7	109.3	108.2	106.1	106.6
77.5°	174.7	167.7	134.5	115.2	100.7	93.2	94.8	91.1	91.1	89.5	88.9
80°	131.3	131.8	103.4	84.1	74.5	71.8	73.4	73.4	72.3	71.8	71.3
82.5°	83.0	93.8	69.6	54.1	53.0	53.6	53.0	52.5	53.6	52.0	51.4
85°	57.3	67.5	42.3	32.1	32.1	31.6	32.7	32.1	33.2	31.6	31.6
87.5°	12.9	30.0	15.5	9.6	10.2	9.6	10.2	10.7	11.8	12.3	12.3
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)