

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: P631823

Luminaire Tested: GWS-SA2B-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631823
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-SA2B-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6627.9 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

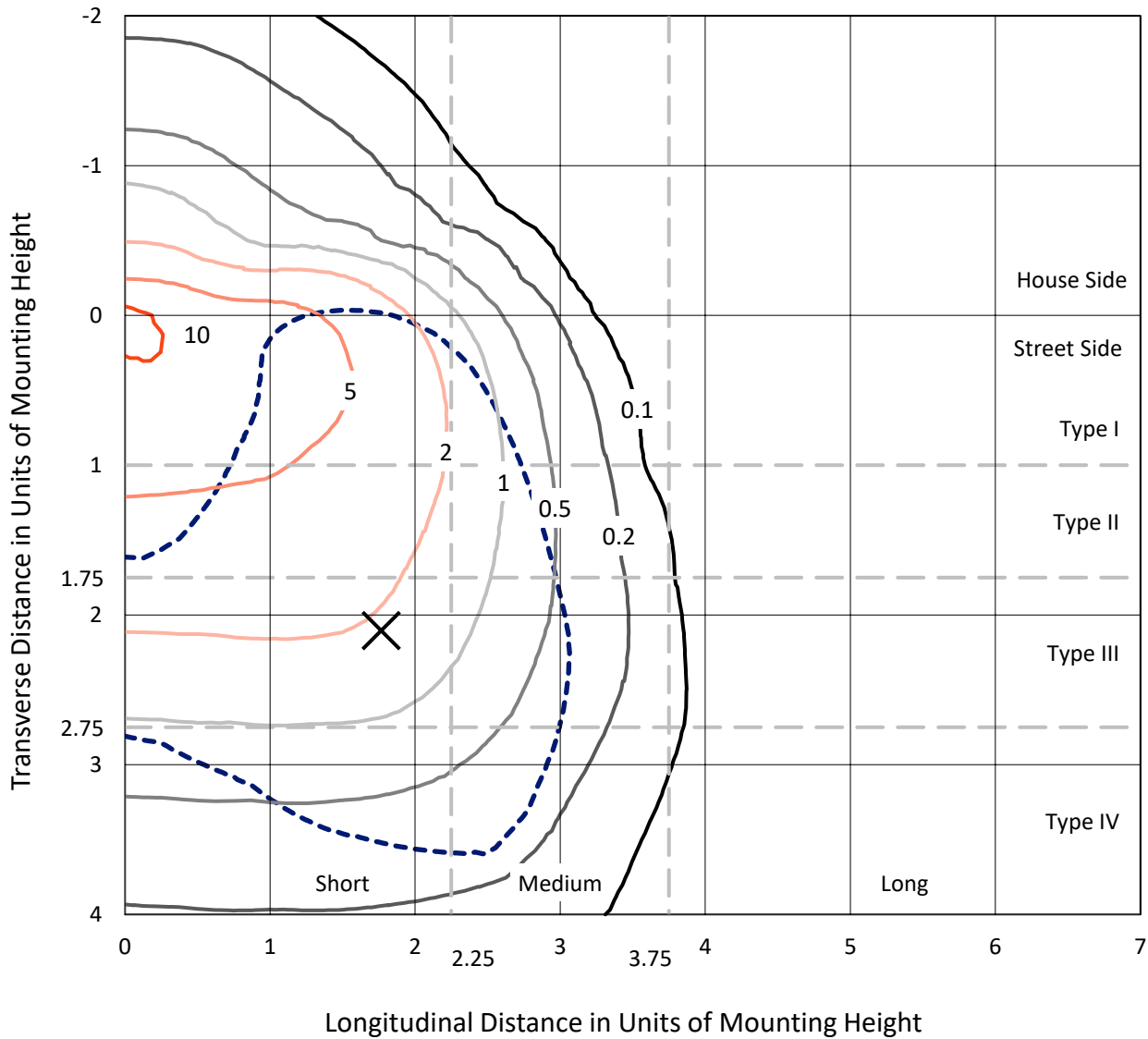
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

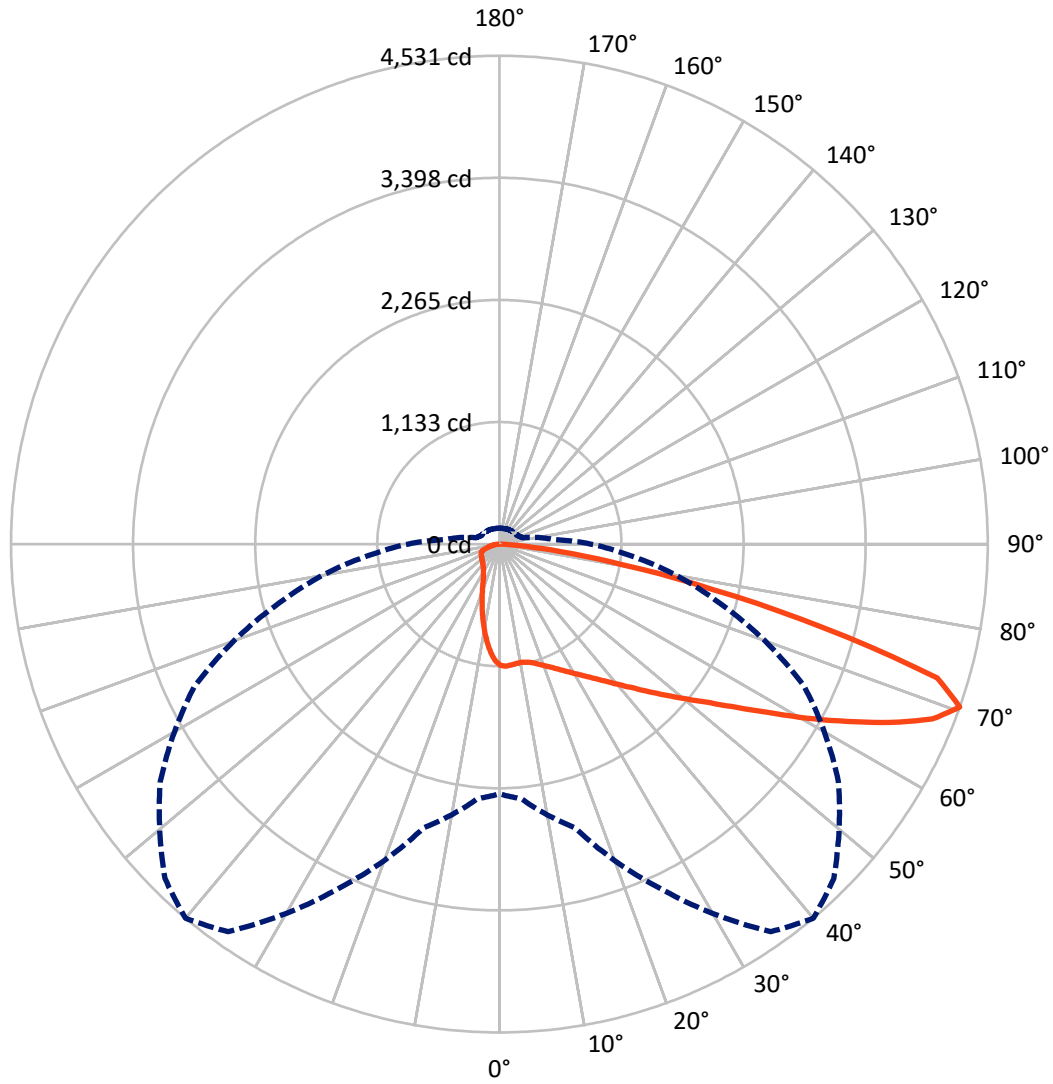
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 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	1020.9	0.0	1020.9
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	5607.0	0.0	5607.0
	% Fixture	84.6	0.0	84.6
Total	Lumens	6627.9	0.0	6627.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.5
10°-20°	259.2	3.9
20°-30°	406.9	6.1
30°-40°	611.8	9.2
40°-50°	944.4	14.2
50°-60°	1402.5	21.2
60°-70°	1767.8	26.7
70°-80°	1022.3	15.4
80°-90°	113.5	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°	6627.9	100.0
0°-180°	6627.9	100.0

Coefficient of Utilization



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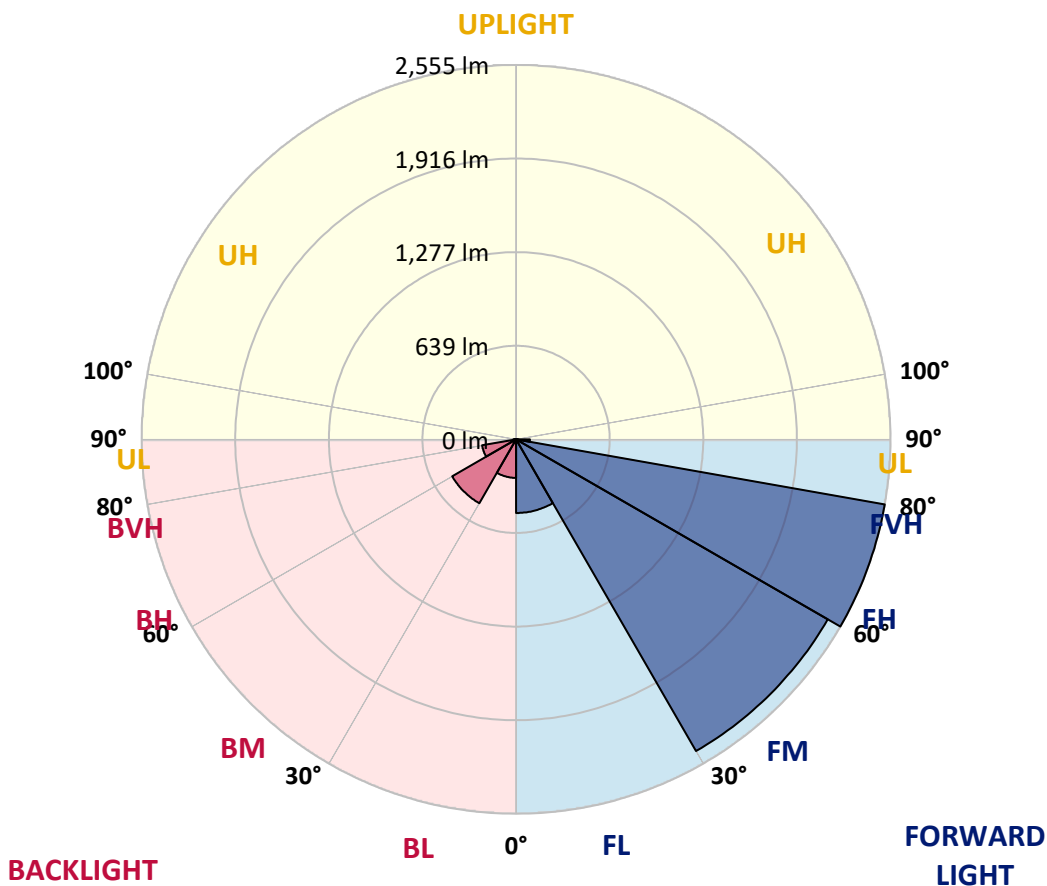
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	502.4	7.6			
FM (30°-60°)	2455.5	37.0			
FH (60°-80°)	2554.5	38.5			G2/5000
FVH (80°-90°)	94.5	1.4			G1/100
BL (0°-30°)	263.1	4.0	B1/500		
BM (30°-60°)	503.2	7.6	B1/1000		
BH (60°-80°)	235.6	3.6	B1/500		G1/500
BVH (80°-90°)	19.0	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°	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5
2.5°	1132.4	1134.4	1135.9	1137.9	1136.9	1133.9	1136.4	1136.4	1130.9	1125.0	1119.6
5°	1133.9	1136.4	1135.9	1135.4	1131.4	1126.5	1126.5	1123.5	1114.1	1104.7	1095.8
7.5°	1130.9	1130.4	1129.9	1128.5	1124.0	1118.6	1117.6	1111.6	1099.3	1086.4	1073.5
10°	1117.6	1117.1	1118.6	1122.0	1121.0	1116.1	1116.1	1110.7	1096.3	1080.5	1063.7
12.5°	1106.7	1106.7	1112.6	1122.0	1125.5	1123.5	1124.0	1120.1	1103.7	1084.9	1065.1
15°	1108.2	1108.7	1121.5	1136.9	1143.3	1141.8	1142.3	1137.9	1119.6	1100.8	1074.0
17.5°	1118.1	1120.5	1142.8	1164.1	1172.5	1170.5	1167.1	1159.6	1138.9	1117.6	1084.9
20°	1138.9	1142.8	1171.5	1198.2	1208.1	1203.7	1197.7	1182.9	1160.1	1136.9	1096.8
22.5°	1179.9	1182.4	1214.0	1240.3	1248.2	1242.7	1230.9	1209.6	1183.4	1159.1	1111.1
25°	1237.8	1240.8	1270.9	1295.2	1293.2	1286.8	1270.4	1244.2	1213.1	1187.3	1131.9
27.5°	1306.6	1311.5	1341.2	1360.5	1347.6	1338.2	1319.9	1288.3	1253.1	1229.9	1163.6
30°	1381.8	1383.7	1409.0	1428.3	1408.5	1395.6	1373.3	1339.2	1307.6	1290.2	1211.1
32.5°	1454.5	1456.5	1478.2	1489.1	1468.3	1458.9	1439.6	1403.5	1381.3	1371.9	1281.8
35°	1531.2	1530.7	1548.5	1557.9	1536.6	1532.6	1512.9	1485.2	1481.2	1493.6	1385.2
37.5°	1607.8	1603.4	1612.8	1625.2	1613.3	1617.2	1604.4	1595.0	1610.3	1642.5	1522.8
40°	1669.2	1669.2	1679.1	1694.4	1698.4	1715.7	1708.3	1720.6	1770.1	1846.8	1692.9
42.5°	1723.6	1724.1	1744.9	1768.6	1797.3	1824.0	1830.0	1862.1	1964.5	2084.8	1906.7
45°	1780.5	1781.0	1809.2	1843.8	1904.7	1955.6	1967.5	2039.7	2186.2	2332.6	2138.7
47.5°	1846.3	1840.9	1879.9	1937.8	2024.4	2097.6	2128.3	2230.7	2415.7	2595.8	2357.4
50°	1920.5	1909.1	1952.7	2052.6	2159.5	2259.9	2311.3	2428.6	2662.1	2838.7	2563.2
52.5°	2004.1	1997.7	2043.2	2164.9	2328.2	2443.9	2513.7	2667.5	2901.5	3080.6	2726.4
55°	2108.0	2092.7	2158.5	2313.3	2526.1	2673.5	2756.1	2904.0	3163.3	3300.3	2851.1
57.5°	2221.8	2205.0	2293.0	2498.8	2783.3	2945.1	3048.5	3170.2	3409.6	3468.5	2924.3
60°	2344.5	2339.0	2443.4	2716.5	3090.0	3278.0	3352.7	3463.1	3623.8	3566.0	2906.0
62.5°	2456.8	2454.8	2606.7	2952.5	3415.1	3621.9	3681.2	3710.4	3778.2	3559.5	2760.6
65°	2575.0	2591.9	2797.2	3226.1	3787.6	3990.4	4015.2	3941.0	3830.1	3390.8	2462.7
67.5°	2589.9	2622.5	2916.9	3482.4	4140.8	4332.3	4312.5	4028.5	3676.8	2921.3	1930.4
70°	2316.3	2373.2	2725.9	3521.4	4389.7	4530.7	4387.7	3840.0	3120.2	2116.4	1214.0
72.5°	1935.4	1984.3	2296.0	3003.0	4068.6	4248.2	4054.7	3250.3	2205.0	1214.0	618.4
75°	1506.4	1563.3	1850.8	2387.0	3046.0	3117.7	3020.8	2266.8	1212.1	500.7	281.0
77.5°	919.2	960.3	1183.9	1617.2	2131.3	2023.9	1715.2	1270.9	531.8	239.9	173.6
80°	406.7	431.9	583.3	868.7	1231.4	1164.1	917.7	542.7	290.9	152.4	121.2
82.5°	218.2	234.5	287.4	343.8	540.7	565.5	458.6	312.7	156.3	87.1	69.3
85°	96.0	105.4	130.6	124.7	177.6	174.6	176.1	214.7	74.7	40.1	45.0
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	5.4	28.7	7.4	11.9	10.4
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°	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5	1125.5
2.5°	1113.6	1104.7	1102.2	1099.3	1093.8	1084.4	1077.5	1069.6	1066.1	1062.2	1062.7
5°	1085.9	1075.0	1064.6	1051.3	1034.5	1015.7	1002.8	988.0	980.0	972.6	974.6
7.5°	1062.2	1045.3	1024.1	995.9	965.7	932.1	904.8	883.6	869.2	859.3	864.3
10°	1047.3	1027.5	990.4	944.4	893.5	842.0	802.9	766.3	743.6	725.8	724.8
12.5°	1044.4	1018.6	964.7	897.9	824.2	755.4	698.1	648.6	618.4	596.1	604.6
15°	1047.3	1014.7	942.4	854.9	761.9	668.9	597.6	540.7	504.6	484.3	482.8
17.5°	1050.8	1010.7	917.2	808.4	696.6	590.2	507.6	447.2	410.1	389.8	390.3
20°	1053.8	1004.8	887.5	757.4	630.3	517.0	431.4	374.0	340.9	326.0	328.5
22.5°	1058.7	998.8	855.9	703.0	562.5	446.2	371.0	324.5	304.7	294.9	295.3
25°	1068.1	995.4	823.2	643.6	495.7	389.8	329.5	298.3	285.9	280.0	279.5
27.5°	1087.4	998.3	789.1	586.2	435.4	346.8	302.8	282.5	274.1	270.1	269.6
30°	1119.6	1010.2	759.4	527.9	383.4	313.2	284.5	272.1	267.2	263.7	263.2
32.5°	1168.5	1032.5	727.2	473.4	341.4	288.4	270.1	263.7	260.2	258.2	258.2
35°	1242.7	1073.1	695.6	426.0	308.7	269.1	258.7	256.3	253.3	252.3	253.3
37.5°	1349.6	1137.9	666.9	384.4	285.5	254.3	246.4	247.4	244.9	246.4	247.9
40°	1485.2	1224.4	642.6	350.3	268.1	243.4	235.5	239.0	237.5	239.0	241.4
42.5°	1656.8	1331.8	624.3	323.5	255.8	234.5	227.1	230.5	229.6	231.5	234.0
45°	1848.3	1473.3	615.9	304.7	246.9	228.1	220.2	222.6	221.6	223.1	225.6
47.5°	2031.8	1601.9	623.4	293.9	239.4	222.6	214.2	215.2	214.7	214.2	215.7
50°	2190.1	1704.3	644.6	290.4	234.5	217.2	209.3	209.8	208.3	205.3	206.3
52.5°	2319.3	1786.4	657.5	290.4	232.0	211.2	203.8	204.3	201.4	197.4	197.9
55°	2404.4	1819.6	647.1	289.9	231.0	206.3	198.4	198.9	195.9	191.0	191.5
57.5°	2428.6	1787.4	603.6	284.5	230.0	202.3	192.9	193.9	192.0	186.5	186.5
60°	2360.8	1669.7	523.9	272.1	227.6	199.9	189.0	190.5	189.5	184.0	184.0
62.5°	2183.2	1460.4	428.9	253.3	220.6	196.9	185.5	188.5	191.0	188.0	187.5
65°	1850.8	1170.0	348.8	232.5	211.7	192.0	180.6	188.0	193.4	197.4	197.4
67.5°	1388.7	837.6	284.5	210.8	198.4	182.1	174.1	181.1	185.0	187.5	189.0
70°	846.5	492.7	224.1	185.5	179.1	167.2	161.3	154.4	148.9	147.9	148.4
72.5°	414.1	282.0	182.1	157.8	152.9	142.0	128.6	125.7	123.2	121.7	121.2
75°	228.1	196.4	150.4	131.1	122.2	108.8	105.9	100.9	99.9	98.0	98.4
77.5°	161.3	154.8	124.2	106.4	93.0	86.1	87.6	84.1	84.1	82.6	82.1
80°	121.2	121.7	95.5	77.7	68.8	66.3	67.8	67.8	66.8	66.3	65.8
82.5°	76.7	86.6	64.3	50.0	49.0	49.5	49.0	48.5	49.5	48.0	47.5
85°	52.9	62.3	39.1	29.7	29.7	29.2	30.2	29.7	30.7	29.2	29.2
87.5°	11.9	27.7	14.3	8.9	9.4	8.9	9.4	9.9	10.9	11.4	11.4
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)