

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: P636571

Luminaire Tested: GWS-SA4B-722-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-722-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6583.7 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

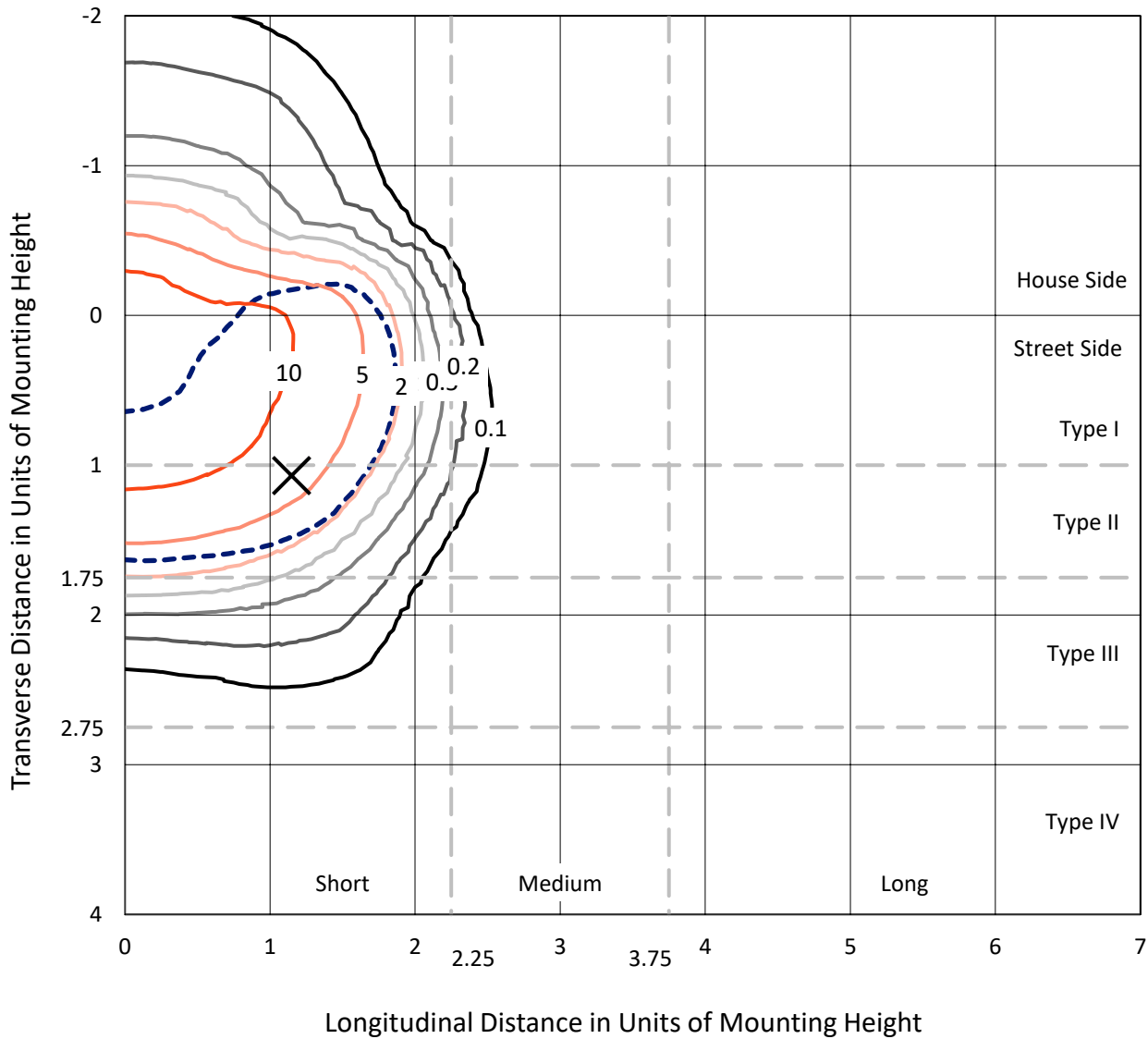
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

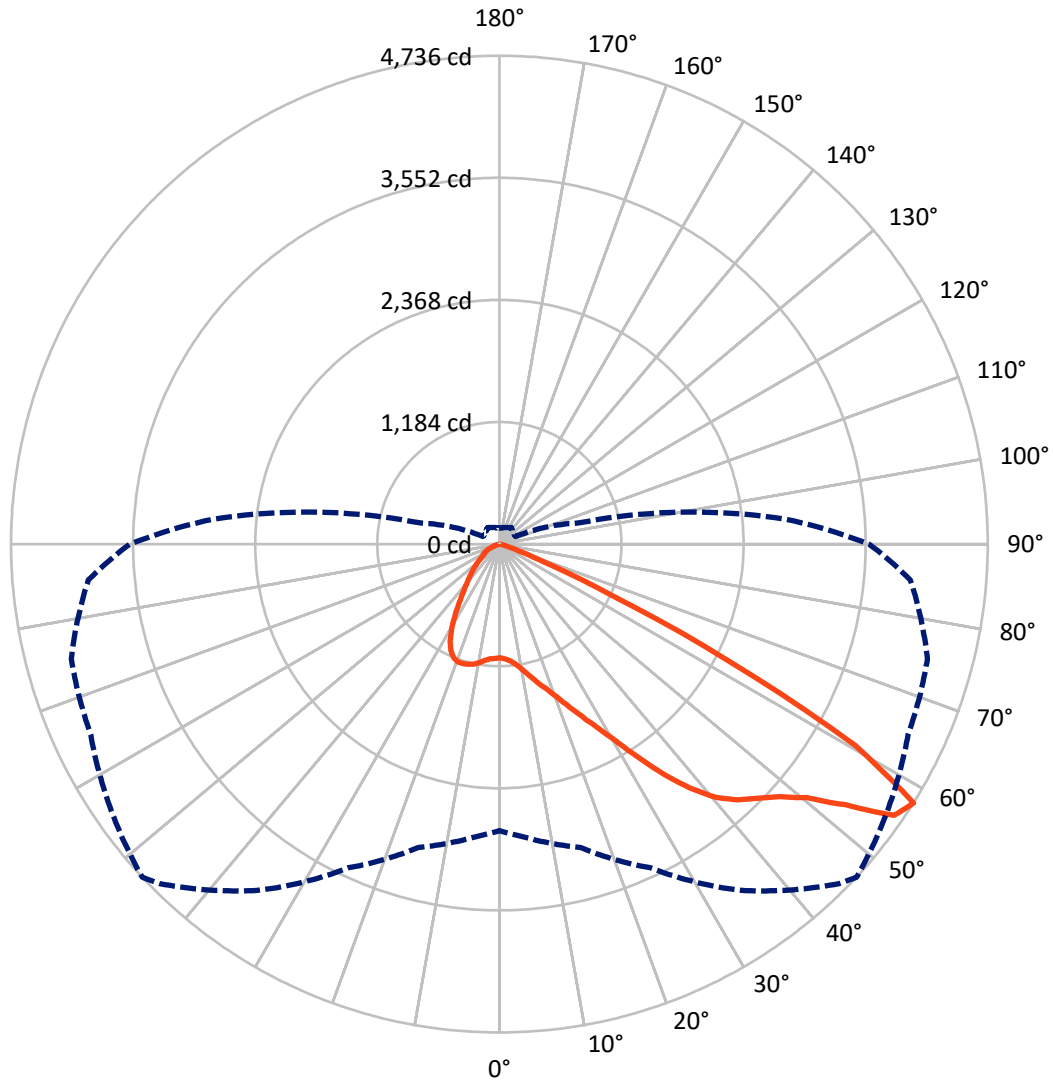
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 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
House Side	Lumens	1428.3	0.0	1428.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5155.4	0.0	5155.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	6583.7	0.0	6583.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	1.7
10°-20°	370.0	5.6
20°-30°	687.0	10.4
30°-40°	1099.7	16.7
40°-50°	1607.5	24.4
50°-60°	1983.9	30.1
60°-70°	662.9	10.1
70°-80°	61.8	0.9
80°-90°	1.3	0.0
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°	6583.7	100.0
0°-180°	6583.7	100.0

Coefficient of Utilization

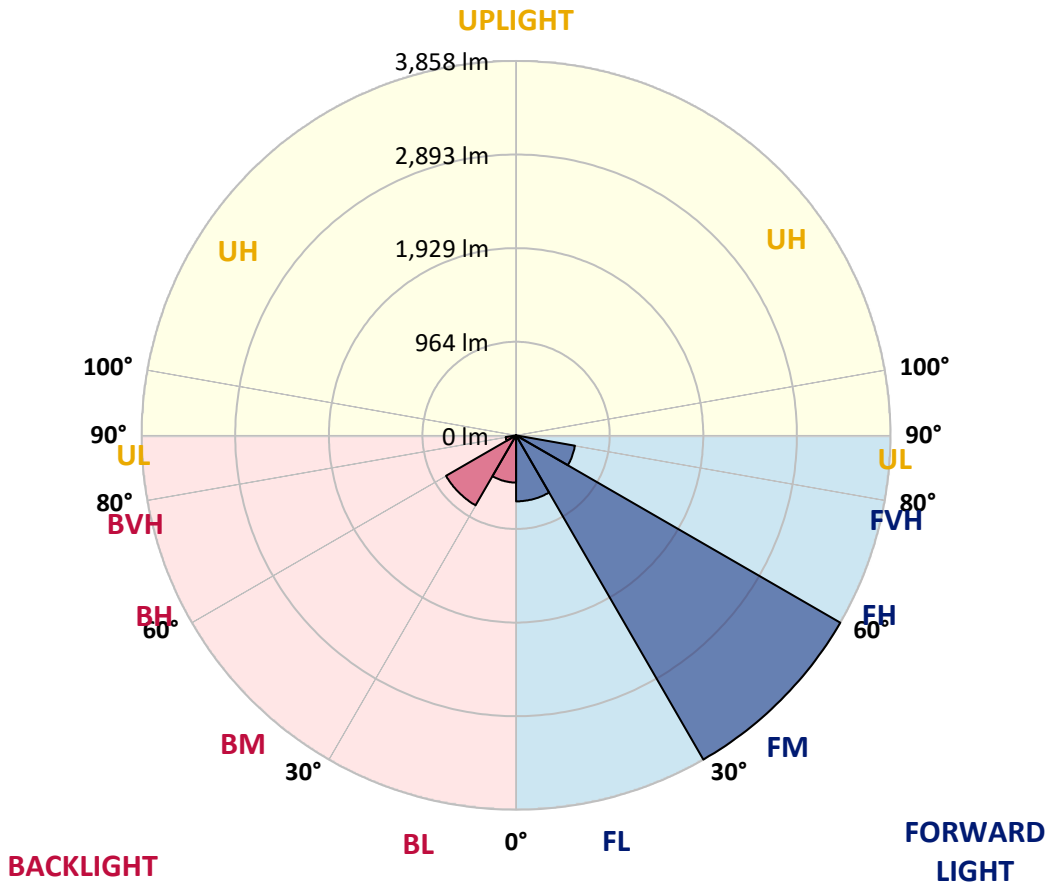


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.4	10.3			
FM (30°-60°)	3858.0	58.6			
FH (60°-80°)	616.1	9.4			G0/660
FVH (80°-90°)	0.9	0.0			G0/10
BL (0°-30°)	486.2	7.4	B1/500		
BM (30°-60°)	833.1	12.7	B1/1000		
BH (60°-80°)	108.6	1.6	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1
2.5°	1113.6	1112.8	1112.1	1116.6	1115.1	1114.3	1115.9	1115.9	1115.9	1111.3	1102.1
5°	1140.3	1140.3	1139.6	1144.2	1140.3	1138.0	1138.8	1138.8	1135.7	1127.3	1115.9
7.5°	1182.4	1180.8	1179.3	1183.9	1180.1	1179.3	1180.8	1176.3	1170.9	1157.1	1141.1
10°	1242.7	1242.7	1240.5	1245.0	1242.0	1240.5	1240.5	1237.4	1227.5	1206.1	1182.4
12.5°	1326.1	1322.2	1316.9	1313.1	1311.5	1310.8	1311.5	1307.0	1296.3	1268.7	1235.9
15°	1417.0	1414.0	1405.5	1399.4	1391.0	1389.5	1394.1	1390.3	1379.6	1342.1	1295.5
17.5°	1531.7	1535.5	1514.1	1501.1	1476.6	1475.1	1476.6	1482.7	1475.1	1426.9	1358.9
20°	1629.5	1632.5	1616.5	1607.3	1585.2	1575.2	1578.3	1588.2	1579.8	1523.2	1428.5
22.5°	1734.2	1738.0	1721.2	1702.1	1692.2	1692.2	1703.6	1717.4	1705.9	1631.8	1508.0
25°	1859.5	1862.6	1848.8	1823.6	1806.0	1828.2	1845.0	1881.7	1862.6	1761.7	1602.0
27.5°	2003.2	2004.0	1984.1	1958.1	1949.0	1990.2	2007.0	2063.6	2056.0	1907.7	1701.3
30°	2156.9	2157.6	2153.0	2135.5	2127.0	2181.3	2204.2	2286.0	2280.7	2088.8	1836.6
32.5°	2316.6	2316.6	2325.0	2323.5	2333.4	2422.1	2458.7	2552.0	2546.6	2310.5	2004.8
35°	2477.1	2477.9	2492.4	2529.1	2570.3	2688.0	2736.2	2849.3	2837.1	2575.7	2219.5
37.5°	2659.8	2652.1	2672.0	2727.0	2818.7	2954.8	3000.6	3108.4	3094.6	2847.0	2500.0
40°	2879.9	2866.1	2866.1	2930.3	3034.3	3190.9	3229.9	3283.4	3236.8	3066.4	2775.2
42.5°	3122.9	3109.9	3093.1	3149.7	3236.8	3359.1	3391.2	3376.7	3338.5	3273.5	3088.5
45°	3369.0	3349.2	3360.6	3395.0	3445.5	3503.5	3515.8	3448.5	3430.9	3449.3	3347.6
47.5°	3556.3	3542.5	3570.8	3619.0	3660.2	3668.6	3660.2	3567.0	3565.5	3630.4	3527.2
50°	3619.0	3620.5	3698.4	3803.9	3870.4	3877.3	3865.8	3758.8	3744.3	3763.4	3624.3
52.5°	3625.1	3631.2	3745.1	3946.1	4127.2	4209.8	4200.6	4085.2	3943.0	3922.4	3771.0
55°	3477.6	3513.5	3672.5	3965.9	4351.2	4614.8	4645.4	4424.5	4213.6	4196.0	4086.7
57.5°	2779.8	2853.1	3045.0	3463.0	4101.2	4656.9	4736.4	4577.4	4373.3	4298.4	4001.9
60°	1661.6	1752.5	1936.7	2449.6	3121.4	3827.6	3964.4	3986.6	3892.6	3676.3	3070.2
62.5°	713.1	705.4	932.4	1325.3	1856.5	2432.8	2494.7	2591.0	2672.8	2446.5	1863.4
65°	244.6	266.0	369.9	597.7	929.4	1129.6	1184.7	1271.0	1387.2	1144.9	682.5
67.5°	151.3	160.5	213.2	353.1	501.4	493.7	469.3	455.5	443.3	303.4	187.3
70°	110.1	117.7	149.8	243.0	337.1	236.9	205.6	166.6	185.0	170.4	133.0
72.5°	74.1	80.3	103.2	147.5	172.7	115.4	107.0	121.5	146.7	139.9	108.5
75°	44.3	48.2	58.9	71.8	70.3	59.6	60.4	85.6	112.4	104.7	77.2
77.5°	30.6	32.1	39.0	46.6	34.4	18.3	16.8	23.7	38.2	38.2	26.0
80°	7.6	9.9	9.9	6.1	5.4	4.6	4.6	6.9	10.7	7.6	3.8
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
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°	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1	1102.1
2.5°	1107.5	1098.3	1104.4	1102.9	1107.5	1109.0	1102.1	1100.6	1101.4	1092.2	1089.1
5°	1118.2	1107.5	1110.5	1107.5	1112.8	1117.4	1115.1	1118.2	1122.0	1115.1	1112.1
7.5°	1141.1	1130.4	1129.6	1125.0	1132.7	1135.7	1135.0	1143.4	1151.0	1146.4	1141.9
10°	1180.8	1166.3	1164.8	1161.0	1163.3	1165.6	1157.1	1158.7	1165.6	1160.2	1157.9
12.5°	1229.8	1212.2	1208.4	1199.2	1199.2	1187.7	1169.4	1165.6	1170.9	1167.1	1163.3
15°	1282.5	1258.8	1252.7	1236.6	1221.3	1199.9	1180.8	1176.3	1180.1	1175.5	1172.4
17.5°	1341.3	1314.6	1294.7	1266.4	1232.8	1207.6	1186.2	1176.3	1170.1	1161.0	1160.2
20°	1399.4	1364.3	1330.6	1285.6	1241.2	1203.0	1167.8	1141.9	1119.7	1105.9	1100.6
22.5°	1466.7	1414.7	1360.5	1297.0	1233.6	1175.5	1113.6	1069.3	1031.0	1018.0	1011.9
25°	1538.5	1471.3	1390.3	1307.7	1207.6	1114.3	1030.3	964.5	914.1	897.3	890.4
27.5°	1618.0	1525.5	1420.8	1305.4	1154.1	1027.2	915.6	833.8	784.2	768.9	774.2
30°	1718.9	1595.9	1459.0	1281.7	1073.8	904.9	774.2	705.4	668.0	653.5	654.2
32.5°	1853.4	1696.7	1514.8	1231.3	970.7	765.8	651.2	600.7	575.5	556.4	554.9
35°	2046.0	1850.4	1566.8	1150.3	845.3	642.0	558.7	519.0	483.8	461.6	465.5
37.5°	2276.8	2043.7	1595.1	1041.0	704.7	545.7	489.2	448.6	408.9	376.0	379.9
40°	2550.5	2296.7	1592.8	897.3	576.3	480.0	431.1	383.7	334.0	304.2	307.2
42.5°	2855.4	2535.9	1543.1	745.2	477.7	426.5	375.3	315.7	267.5	249.2	249.9
45°	3119.9	2730.1	1456.0	587.7	402.0	374.5	317.2	256.0	234.6	221.6	220.9
47.5°	3315.5	2872.2	1331.4	462.4	340.9	327.1	260.6	229.3	212.5	201.8	200.2
50°	3424.8	2921.9	1193.8	362.3	288.1	277.4	233.1	207.9	196.4	189.5	188.0
52.5°	3571.6	2981.5	1095.2	285.8	241.5	227.0	214.8	193.4	185.7	180.4	178.1
55°	3803.9	3096.9	1009.6	227.0	201.0	198.0	202.5	185.0	180.4	172.0	168.9
57.5°	3585.3	2782.0	784.2	175.8	169.7	181.1	195.7	176.6	165.1	157.4	154.4
60°	2522.9	1849.6	394.4	141.4	151.3	169.7	184.2	159.7	148.3	149.8	148.3
62.5°	1391.0	925.6	177.3	118.5	131.5	149.8	157.4	138.3	130.7	143.7	146.0
65°	454.8	314.9	102.4	91.7	103.9	122.3	136.0	131.5	129.9	145.2	149.8
67.5°	139.9	103.9	69.6	65.7	71.8	90.2	114.6	142.2	152.9	157.4	159.7
70°	104.7	81.8	59.6	55.8	58.9	68.8	97.1	118.5	111.6	112.4	110.8
72.5°	84.1	65.0	51.2	48.9	48.9	47.4	51.2	64.2	72.6	76.4	76.4
75°	58.9	45.9	39.0	35.9	28.3	22.9	20.6	20.6	18.3	17.6	16.8
77.5°	19.9	16.8	15.3	12.2	8.4	6.9	6.1	5.4	3.8	2.3	1.5
80°	3.1	2.3	1.5	1.5	1.5	0.8	0.8	0.8	0.0	0.0	0.0
82.5°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.0	0.0
85°	1.5	1.5	1.5	1.5	1.5	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	0.8	0.8	0.8	0.0	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)