

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: P641737

Luminaire Tested: GWS-SA6B-740-U-T2R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6B-740-U-T2R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14192.9 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

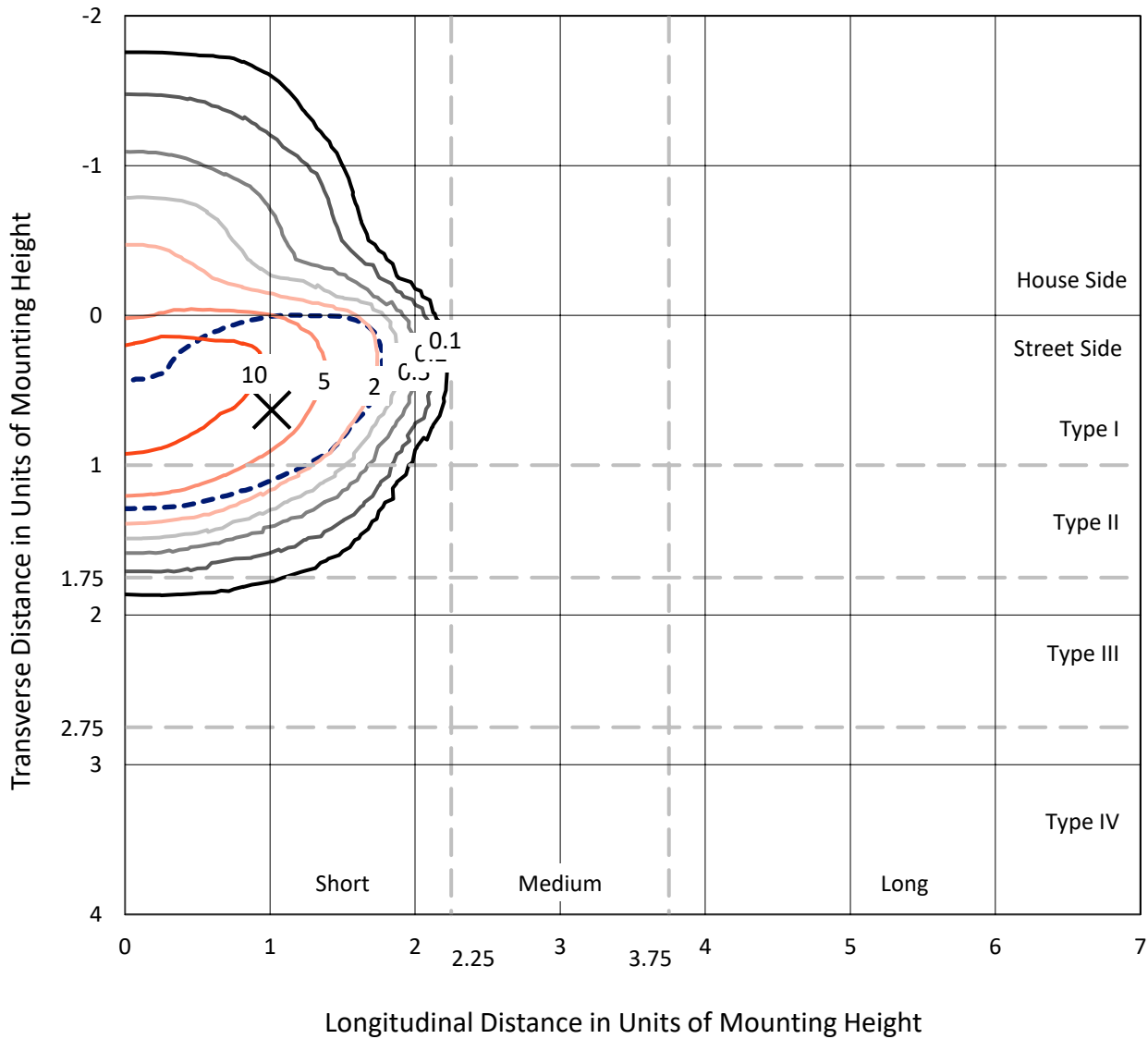
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

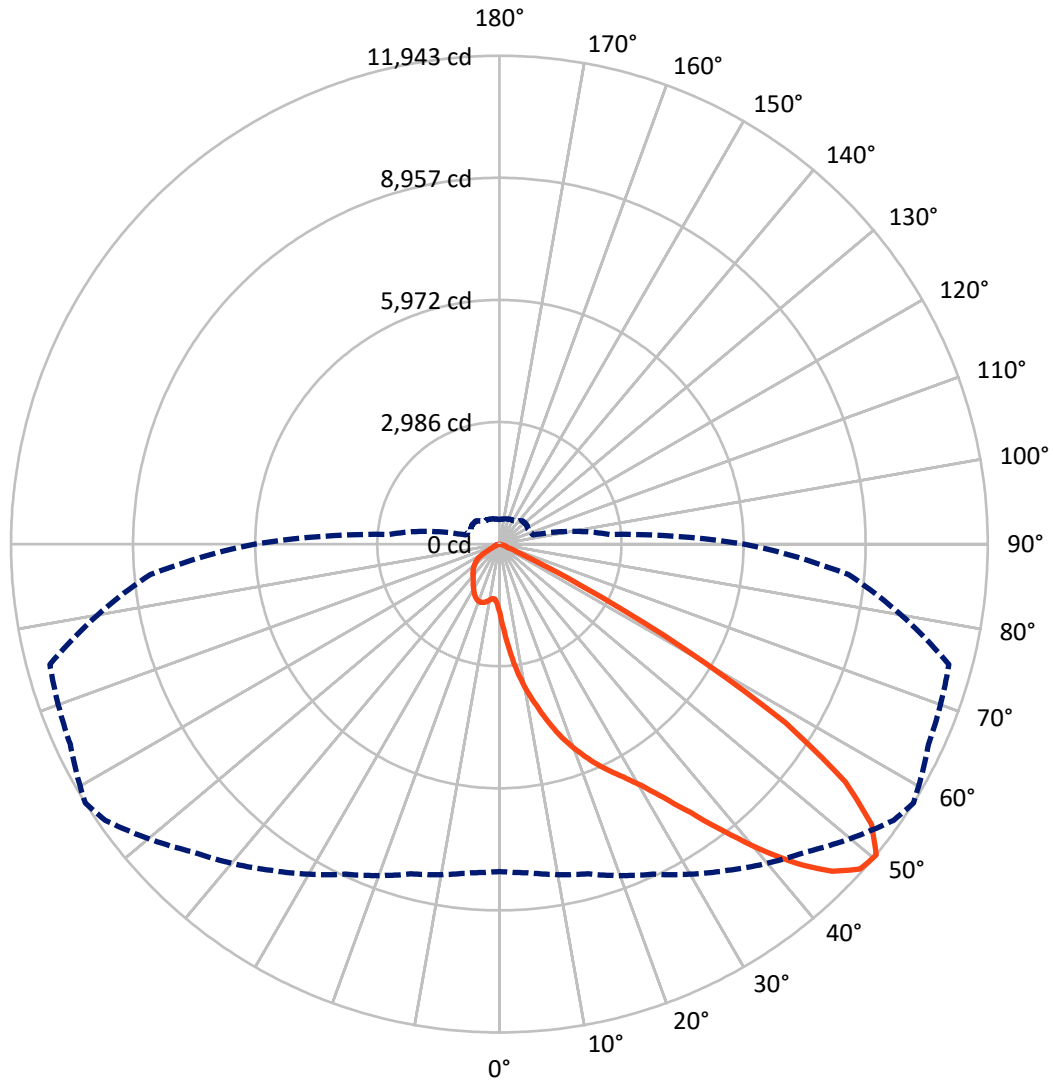
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1987.9	0.0	1987.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12205.0	0.0	12205.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	14192.9	0.0	14192.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.0	1.5
10°-20°	831.4	5.9
20°-30°	1682.4	11.9
30°-40°	2976.4	21.0
40°-50°	4338.9	30.6
50°-60°	3477.8	24.5
60°-70°	626.5	4.4
70°-80°	49.4	0.3
80°-90°	0.0	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°	14192.9	100.0
0°-180°	14192.9	100.0

Coefficient of Utilization



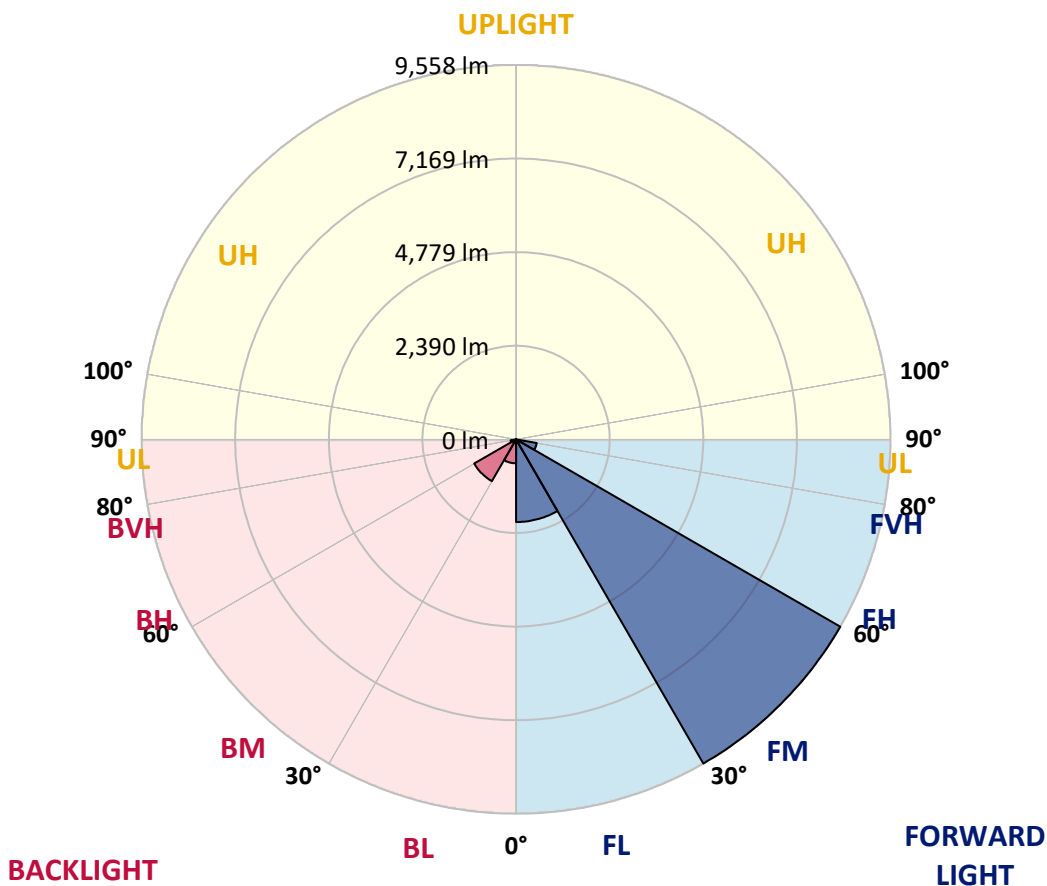
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2111.9	14.9			
FM (30°-60°)	9558.5	67.3			
FH (60°-80°)	534.6	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	612.0	4.3	B2/1000		
BM (30°-60°)	1234.6	8.7	B2/2500		
BH (60°-80°)	141.3	1.0	B1/500		G1/500
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3
2.5°	2508.8	2469.4	2446.6	2428.4	2347.9	2220.5	2137.0	2093.0	2020.1	1897.2	1790.9
5°	3273.8	3244.9	3191.8	3155.4	3052.2	2871.6	2684.9	2610.5	2445.1	2167.3	1918.4
7.5°	3780.7	3759.4	3739.7	3691.1	3594.0	3430.1	3223.7	3146.3	2891.3	2496.7	2088.4
10°	4170.8	4154.1	4131.3	4129.8	4053.9	3906.7	3704.8	3624.4	3348.1	2854.9	2288.8
12.5°	4513.8	4500.1	4495.6	4538.0	4489.5	4380.2	4161.6	4061.5	3768.6	3220.6	2510.3
15°	4749.0	4746.0	4765.7	4849.2	4876.5	4826.4	4642.8	4535.0	4198.1	3587.9	2754.7
17.5°	4856.8	4865.9	4903.8	5048.0	5169.4	5211.9	5070.8	4979.7	4624.6	3959.8	3015.8
20°	5040.4	5037.4	5060.2	5196.7	5345.5	5497.3	5454.8	5377.4	5055.6	4352.9	3305.6
22.5°	5558.0	5514.0	5465.4	5486.6	5539.8	5717.3	5796.3	5756.8	5500.3	4756.6	3604.6
25°	6353.3	6307.7	6151.4	5999.6	5899.5	5979.9	6087.7	6107.4	5942.0	5170.9	3917.3
27.5°	7197.1	7156.2	6980.1	6752.4	6465.6	6325.9	6406.4	6445.8	6376.0	5664.2	4249.7
30°	7987.9	7933.2	7740.5	7458.2	7125.8	6911.8	6820.7	6848.1	6889.0	6248.5	4639.7
32.5°	8673.9	8632.9	8402.2	8104.7	7784.5	7561.4	7348.9	7394.4	7494.6	6963.4	5139.1
35°	9255.2	9233.9	8989.6	8693.6	8355.2	8241.3	8059.2	8068.3	8168.5	7827.0	5747.7
37.5°	9760.6	9724.2	9502.6	9227.9	8959.2	8941.0	8890.9	8895.5	8947.1	8833.3	6447.4
40°	10079.3	10045.9	9888.1	9718.1	9526.9	9529.9	9789.4	9809.2	9750.0	9821.3	7186.5
42.5°	10199.2	10174.9	10089.9	10091.5	10071.7	10161.3	10648.5	10684.9	10472.4	10596.9	7817.9
45°	9991.3	9980.7	9986.7	10205.3	10442.1	10718.3	11351.2	11414.9	11114.4	11111.4	8311.2
47.5°	9320.5	9299.2	9476.8	9848.6	10396.5	10933.8	11776.2	11874.8	11563.7	11405.8	8620.8
50°	8006.1	8066.8	8347.6	8906.1	9739.3	10637.9	11771.6	11943.1	11580.4	11380.0	8569.2
52.5°	5799.3	5787.1	6401.8	7169.8	8183.7	9690.8	11146.3	11396.7	11175.1	11126.6	8453.8
55°	3155.4	3266.2	3680.5	4697.4	5963.2	7898.3	9718.1	10264.5	10521.0	11034.0	8661.8
57.5°	1159.6	1208.1	1467.7	2187.1	3156.9	4911.4	7423.3	8247.4	9039.7	10776.0	8626.8
60°	467.5	476.6	579.8	804.4	1326.5	2499.7	4453.1	5184.6	5931.3	8248.9	6620.4
62.5°	340.0	352.1	393.1	470.5	670.8	1092.8	1919.9	2232.6	2440.5	4085.8	3261.6
65°	274.7	283.8	317.2	352.1	443.2	587.4	619.2	596.5	593.4	1056.3	748.2
67.5°	227.7	236.8	261.1	285.3	318.7	292.9	212.5	223.1	182.1	180.6	147.2
70°	167.0	177.6	201.9	227.7	191.2	78.9	122.9	182.1	138.1	115.3	112.3
72.5°	126.0	133.6	156.3	148.7	56.2	30.4	82.0	132.0	106.2	85.0	83.5
75°	94.1	98.7	78.9	24.3	6.1	7.6	30.4	54.6	59.2	48.6	48.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	4.6	6.1	7.6	9.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3	1695.3
2.5°	1730.2	1666.5	1575.4	1499.5	1441.9	1385.7	1343.2	1300.7	1299.2	1277.9	1273.4
5°	1803.1	1687.7	1520.8	1400.9	1328.0	1284.0	1253.7	1238.5	1230.9	1223.3	1220.3
7.5°	1907.8	1742.4	1511.7	1384.2	1323.5	1294.6	1273.4	1264.3	1259.7	1253.7	1252.1
10°	2036.8	1821.3	1545.1	1416.1	1362.9	1335.6	1312.8	1299.2	1291.6	1281.0	1277.9
12.5°	2191.6	1918.4	1598.2	1469.2	1413.0	1376.6	1346.2	1326.5	1315.9	1302.2	1299.2
15°	2358.6	2023.1	1657.4	1517.7	1451.0	1403.9	1366.0	1335.6	1315.9	1299.2	1294.6
17.5°	2531.6	2129.4	1710.5	1551.1	1469.2	1413.0	1358.4	1317.4	1293.1	1271.9	1265.8
20°	2725.9	2238.7	1745.4	1557.2	1463.1	1388.7	1325.0	1273.4	1249.1	1220.3	1214.2
22.5°	2929.2	2340.4	1760.6	1543.5	1429.7	1343.2	1274.9	1221.8	1186.9	1156.5	1147.4
25°	3126.5	2431.4	1753.0	1505.6	1379.6	1279.5	1209.6	1155.0	1117.1	1086.7	1079.1
27.5°	3336.0	2507.3	1725.7	1449.4	1311.3	1209.6	1142.9	1095.8	1060.9	1027.5	1019.9
30°	3571.2	2577.1	1681.7	1381.1	1230.9	1138.3	1086.7	1054.8	1016.9	982.0	971.4
32.5°	3855.1	2639.4	1617.9	1299.2	1159.6	1076.1	1047.2	1023.0	978.9	942.5	934.9
35°	4179.9	2691.0	1537.5	1214.2	1089.7	1036.6	1030.5	998.7	941.0	898.5	889.4
37.5°	4556.3	2741.0	1441.9	1130.7	1038.1	1018.4	1019.9	965.3	895.5	843.9	837.8
40°	4961.5	2791.1	1335.6	1057.9	991.1	1007.8	994.1	916.7	802.9	752.8	746.7
42.5°	5383.4	2845.8	1227.9	989.6	951.6	966.8	947.1	819.6	737.6	711.8	708.8
45°	5764.4	2911.0	1111.0	921.3	912.2	907.6	874.2	742.2	707.3	689.1	687.5
47.5°	6039.1	2900.4	986.5	856.0	869.7	854.5	752.8	705.7	676.9	652.6	646.6
50°	5989.0	2715.2	857.5	783.2	815.0	801.4	676.9	663.3	637.5	611.6	602.5
52.5°	5861.5	2463.3	745.2	705.7	755.8	724.0	625.3	611.6	588.9	555.5	544.9
55°	5929.8	2226.5	657.2	643.5	695.1	599.5	567.6	546.4	522.1	485.7	481.1
57.5°	5709.7	1816.7	528.2	537.3	614.7	511.5	497.8	464.4	423.4	399.2	396.1
60°	3952.2	975.9	330.9	341.5	444.7	429.5	446.2	415.9	365.8	343.0	338.5
62.5°	1815.2	391.6	180.6	173.0	233.7	291.4	382.5	379.4	317.2	280.8	277.7
65°	440.1	179.1	129.0	121.4	132.0	174.5	248.9	299.0	256.5	214.0	209.4
67.5°	142.7	145.7	118.4	110.8	116.9	130.5	148.7	165.4	163.9	150.3	147.2
70°	113.8	132.0	109.3	100.2	100.2	104.7	100.2	80.4	69.8	75.9	78.9
72.5°	85.0	100.2	86.5	77.4	74.4	72.9	62.2	45.5	31.9	28.8	27.3
75°	50.1	56.2	53.1	45.5	42.5	37.9	30.4	19.7	10.6	7.6	4.6
77.5°	9.1	10.6	12.1	9.1	7.6	6.1	4.6	1.5	0.0	0.0	0.0
80°	0.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)