

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P527153

Luminaire Tested: **GALN-SA2A-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-827-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4111 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

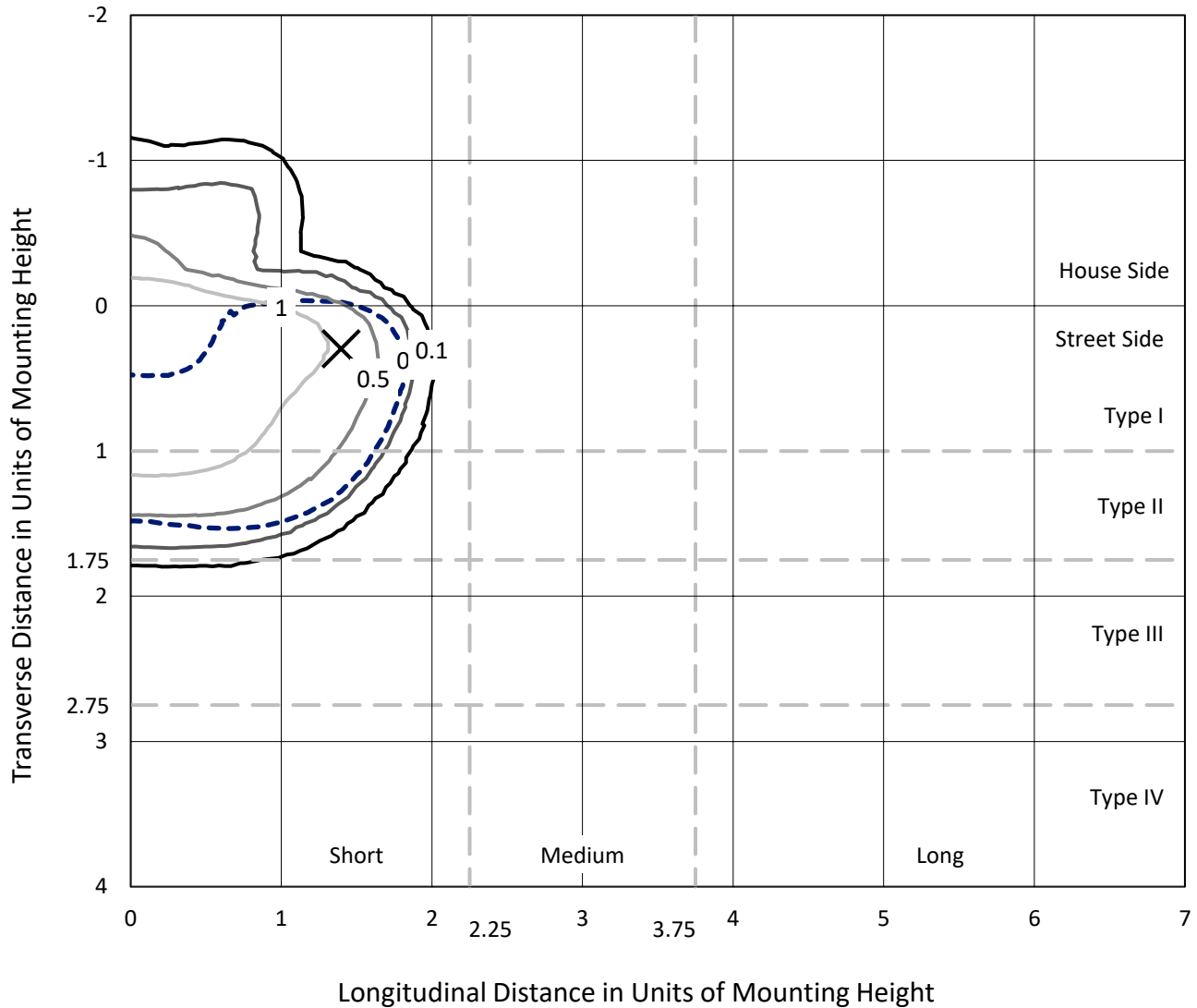
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

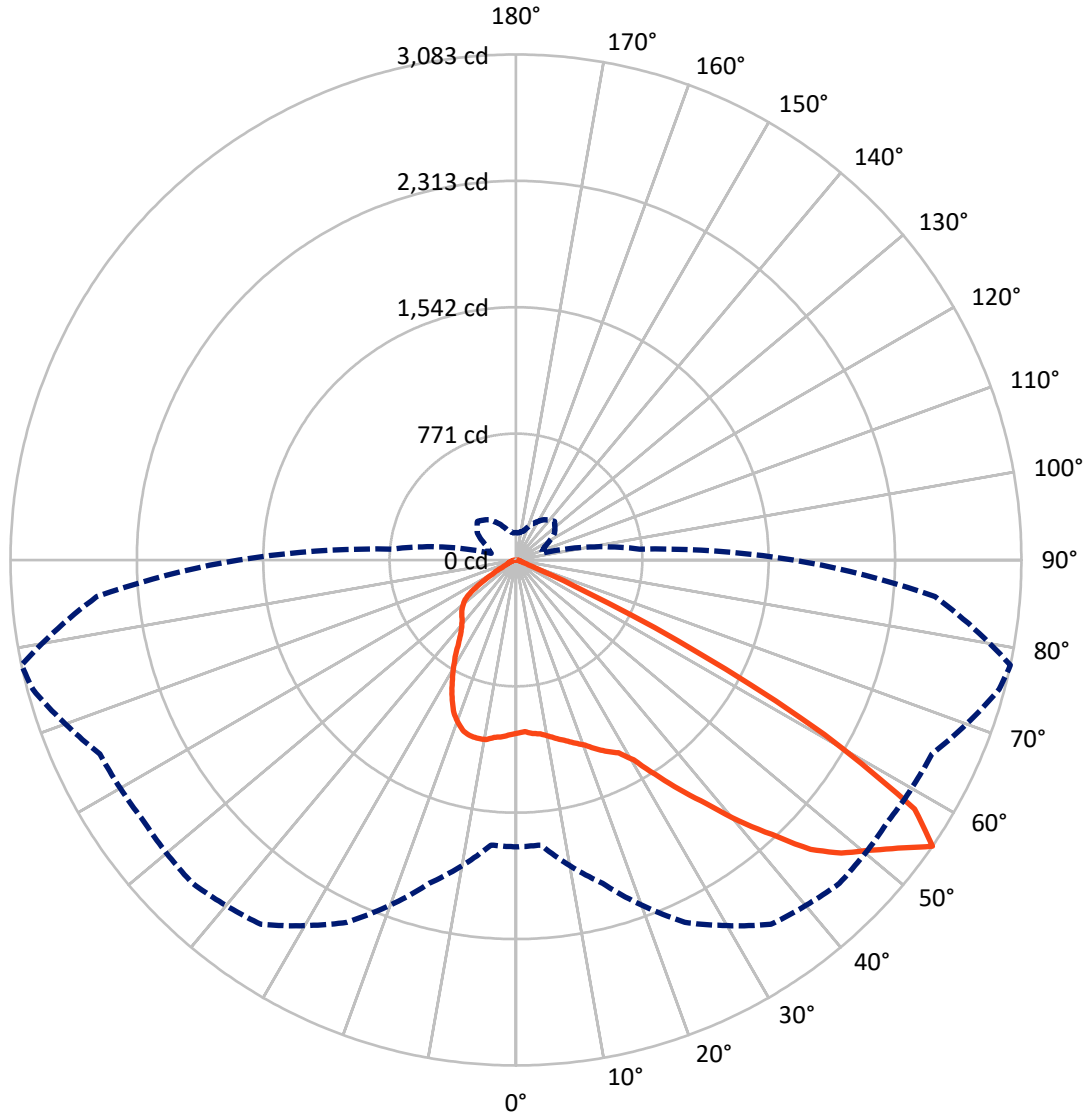
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	763.6	0.0	763.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3347.4	0.0	3347.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	4111.0	0.0	4111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	2.3
10°-20°	249.4	6.1
20°-30°	437.2	10.6
30°-40°	720.9	17.5
40°-50°	1049.0	25.5
50°-60°	1188.6	28.9
60°-70°	339.8	8.3
70°-80°	26.4	0.6
80°-90°	5.5	0.1
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°	4111.0	100.0
0°-180°	4111.0	100.0

Coefficient of Utilization



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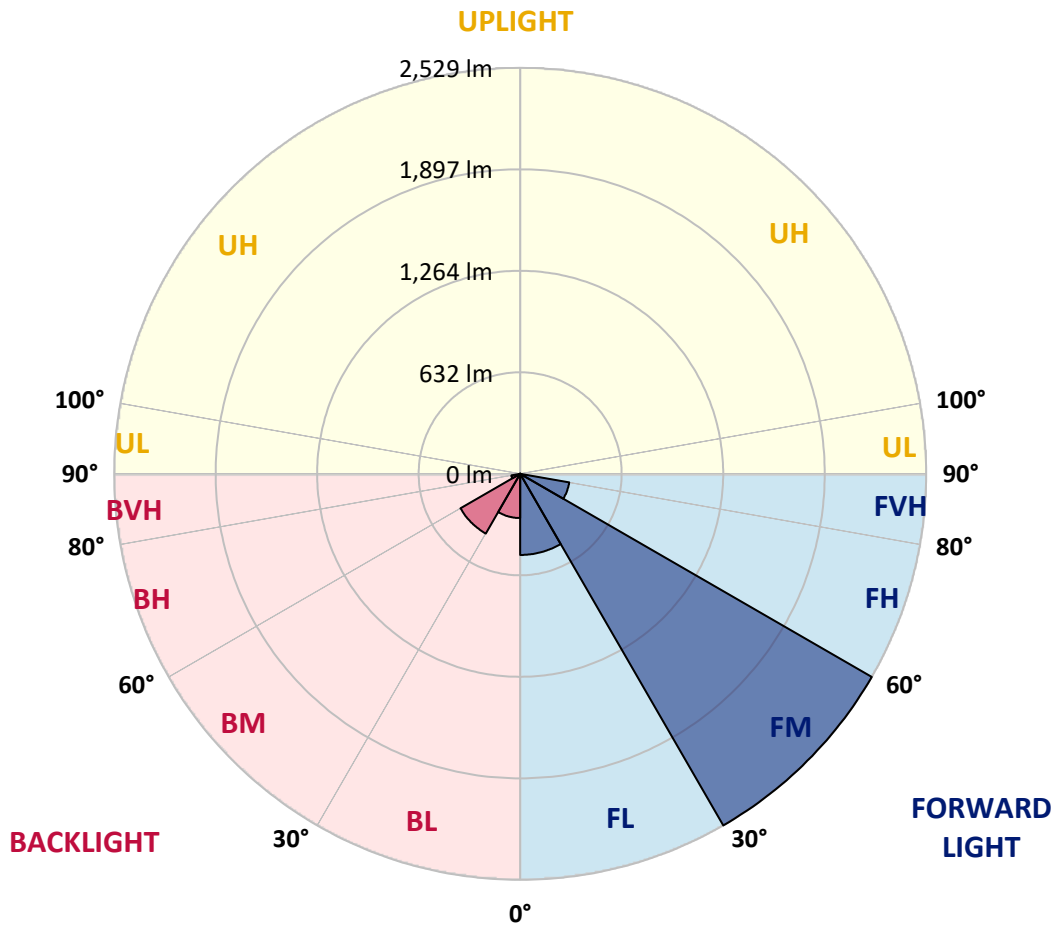
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	505.4	12.3			
FM (30°-60°)	2528.9	61.5			
FH (60°-80°)	310.5	7.6			G0/660
FVH (80°-90°)	2.7	0.1			G0/10
BL (0°-30°)	275.5	6.7	B1/500		
BM (30°-60°)	429.5	10.4	B1/1000		
BH (60°-80°)	55.7	1.4	B0/110		G0/110
BVH (80°-90°)	2.8	0.1			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°	55°	65°	75°	78°	85°
0°	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9
2.5°	993.7	1003.3	1004.8	1016.5	1015.8	1035.6	1041.5	1042.2	1055.5	1048.9	1065.8
5°	965.8	960.7	958.4	979.0	984.9	1002.5	1017.3	1026.1	1053.3	1062.8	1080.5
7.5°	940.8	940.8	942.3	960.7	958.4	981.2	996.7	1023.9	1063.6	1071.6	1093.0
10°	916.6	907.7	918.8	937.9	954.0	964.3	996.7	1022.4	1068.7	1092.2	1121.6
12.5°	904.1	908.5	909.9	923.9	941.5	972.4	990.1	1032.7	1105.5	1119.4	1151.0
15°	982.7	973.9	952.6	940.1	954.8	969.5	1013.6	1056.9	1124.6	1144.4	1179.7
17.5°	1073.8	1066.5	1048.9	1015.0	982.0	1009.2	1043.7	1083.4	1145.1	1174.5	1226.7
20°	1192.9	1181.2	1163.5	1097.4	1068.7	1039.3	1076.1	1123.1	1179.0	1205.4	1259.1
22.5°	1334.8	1334.8	1295.1	1215.0	1155.4	1127.5	1142.9	1170.1	1216.4	1252.5	1305.4
25°	1482.5	1478.1	1442.1	1359.0	1258.3	1225.3	1242.9	1262.0	1274.5	1294.3	1329.6
27.5°	1651.6	1625.8	1580.3	1488.4	1399.5	1335.5	1354.6	1337.7	1322.3	1332.6	1383.3
30°	1766.2	1782.4	1724.3	1636.1	1552.3	1481.0	1484.7	1470.0	1399.5	1414.2	1444.3
32.5°	1885.3	1895.6	1863.2	1814.7	1730.9	1647.9	1617.8	1605.3	1552.3	1559.0	1529.6
35°	1984.5	2004.4	1975.7	1954.4	1930.1	1863.2	1780.2	1820.6	1735.4	1719.2	1642.7
37.5°	2075.7	2069.8	2103.6	2081.5	2076.4	2029.4	1938.2	1946.3	1889.0	1885.3	1797.1
40°	2157.2	2158.7	2205.0	2215.3	2194.7	2110.9	1978.6	2042.6	2088.9	2093.3	1980.1
42.5°	2224.9	2244.7	2284.4	2367.5	2336.6	2196.9	2020.5	2090.4	2262.4	2289.5	2153.6
45°	2283.7	2324.1	2373.3	2447.6	2429.9	2318.9	2124.9	2188.9	2447.6	2518.9	2316.7
47.5°	2287.3	2340.3	2393.9	2504.2	2526.2	2384.4	2233.0	2344.7	2594.6	2671.8	2435.8
50°	2272.6	2300.6	2407.9	2527.7	2577.7	2490.9	2384.4	2475.5	2737.2	2785.7	2496.1
52.5°	2098.4	2119.8	2335.1	2549.7	2670.3	2611.5	2585.0	2657.8	2882.7	2918.7	2552.7
55°	1749.3	1745.6	2041.9	2438.8	2712.9	2790.1	2773.9	2799.6	3051.0	3083.4	2566.6
57.5°	1196.6	1263.5	1519.3	2030.8	2452.0	2748.2	2765.1	2722.5	2854.8	2867.3	2237.4
60°	645.3	673.3	879.1	1355.4	1866.9	2239.6	2283.7	2206.5	2196.2	2160.9	1597.2
62.5°	256.5	270.5	387.3	671.1	1017.3	1361.2	1456.0	1424.4	1356.8	1264.2	826.9
65°	122.0	130.8	192.6	313.8	451.3	567.4	662.2	691.6	510.1	459.4	272.7
67.5°	83.1	89.7	140.4	179.3	161.0	168.3	219.0	203.6	119.8	102.2	75.7
70°	63.2	67.6	112.5	122.0	72.0	50.7	56.6	52.9	49.2	50.0	49.2
72.5°	44.8	48.5	82.3	72.0	31.6	23.5	30.1	36.0	36.0	36.0	35.3
75°	27.2	30.9	47.8	27.9	12.5	12.5	19.1	24.3	25.7	26.5	25.0
77.5°	14.0	17.6	16.2	8.1	8.1	9.6	14.0	16.9	18.4	18.4	17.6
80°	2.9	2.9	2.9	4.4	8.1	10.3	14.0	15.4	17.6	17.6	16.2
82.5°	0.0	0.7	2.2	4.4	7.4	9.6	13.2	15.4	17.6	18.4	16.9
85°	0.0	0.7	1.5	2.9	5.1	5.9	5.1	4.4	4.4	4.4	4.4
87.5°	0.0	0.0	0.7	0.7	0.7	1.5	1.5	1.5	1.5	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°	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9	1056.9
2.5°	1067.2	1069.4	1065.8	1065.0	1062.1	1070.9	1049.6	1044.4	1057.7	1045.2	1048.1
5°	1081.2	1086.3	1079.7	1068.7	1052.5	1027.5	1006.2	978.3	965.1	955.5	954.0
7.5°	1091.5	1095.2	1088.5	1053.3	1004.8	941.5	894.5	860.0	832.8	824.7	811.4
10°	1133.4	1134.1	1101.0	1023.1	928.3	845.3	773.2	720.3	693.1	676.2	668.9
12.5°	1161.3	1159.8	1093.0	963.6	837.2	726.9	644.6	580.7	555.7	547.6	542.4
15°	1196.6	1188.5	1073.8	902.6	719.6	600.5	526.3	482.2	480.0	474.8	480.0
17.5°	1224.5	1201.7	1045.9	791.6	607.1	494.7	446.1	449.1	455.0	460.1	460.8
20°	1270.1	1223.1	982.0	694.6	502.7	424.1	423.4	436.6	451.3	457.2	463.1
22.5°	1304.6	1231.9	913.6	590.9	417.5	395.4	407.9	427.8	438.8	444.7	453.5
25°	1317.1	1207.6	822.5	487.3	376.3	382.2	401.3	414.5	428.5	435.1	431.4
27.5°	1329.6	1195.1	713.7	401.3	354.3	373.4	389.6	402.8	407.2	416.0	421.9
30°	1359.8	1151.8	615.9	346.9	343.2	367.5	379.3	383.7	395.4	400.6	400.6
32.5°	1384.0	1134.9	512.3	321.2	341.8	370.4	371.9	371.9	373.4	369.7	368.2
35°	1434.0	1076.8	419.7	305.8	341.0	371.2	374.9	362.4	328.5	315.3	311.6
37.5°	1495.7	1039.3	351.3	302.1	346.2	380.0	385.9	338.8	294.7	273.4	269.7
40°	1570.7	1012.8	306.5	300.6	357.9	400.6	382.9	320.5	263.1	232.3	230.8
42.5°	1658.2	988.6	276.4	299.9	372.6	421.9	380.0	305.0	230.8	210.2	213.2
45°	1728.0	975.4	255.8	294.7	377.8	434.4	382.2	277.8	217.6	204.3	205.8
47.5°	1782.4	947.4	238.9	285.9	377.1	438.8	362.4	266.8	210.9	214.6	218.3
50°	1783.9	909.9	217.6	266.8	366.0	430.7	339.6	256.5	209.5	224.9	232.3
52.5°	1764.0	857.0	194.8	239.6	340.3	402.8	319.0	252.1	202.9	201.4	210.2
55°	1693.5	757.8	156.6	194.0	287.4	332.2	300.6	244.0	183.0	166.1	167.6
57.5°	1368.6	543.2	115.4	138.9	203.6	243.3	271.2	240.3	164.6	141.1	141.9
60°	847.5	308.0	84.5	94.8	125.7	147.7	219.8	223.4	147.0	119.1	117.6
62.5°	435.1	152.1	65.4	66.9	77.2	86.7	150.7	187.4	133.0	113.2	113.2
65°	145.5	75.0	57.3	51.5	51.5	53.7	91.1	130.1	112.5	94.8	94.8
67.5°	62.5	55.9	50.0	44.8	41.2	39.0	51.5	75.7	83.8	72.0	69.1
70°	48.5	47.0	43.4	37.5	32.3	29.4	30.1	39.0	47.8	46.3	44.8
72.5°	36.0	36.0	34.5	29.4	25.0	21.3	19.8	20.6	22.8	23.5	24.3
75°	25.0	25.7	25.7	22.8	18.4	15.4	13.2	11.0	8.8	7.4	6.6
77.5°	16.9	17.6	19.1	16.9	14.0	10.3	8.1	5.9	3.7	1.5	1.5
80°	14.7	16.9	18.4	16.9	14.7	11.0	8.1	4.4	2.2	0.0	0.0
82.5°	15.4	16.9	19.1	16.2	14.0	10.3	8.1	5.1	2.2	0.7	0.0
85°	3.7	3.7	4.4	5.1	6.6	7.4	5.9	3.7	2.2	0.7	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	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)