

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: P526673

Luminaire Tested: **GALN-SA1C-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3058 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

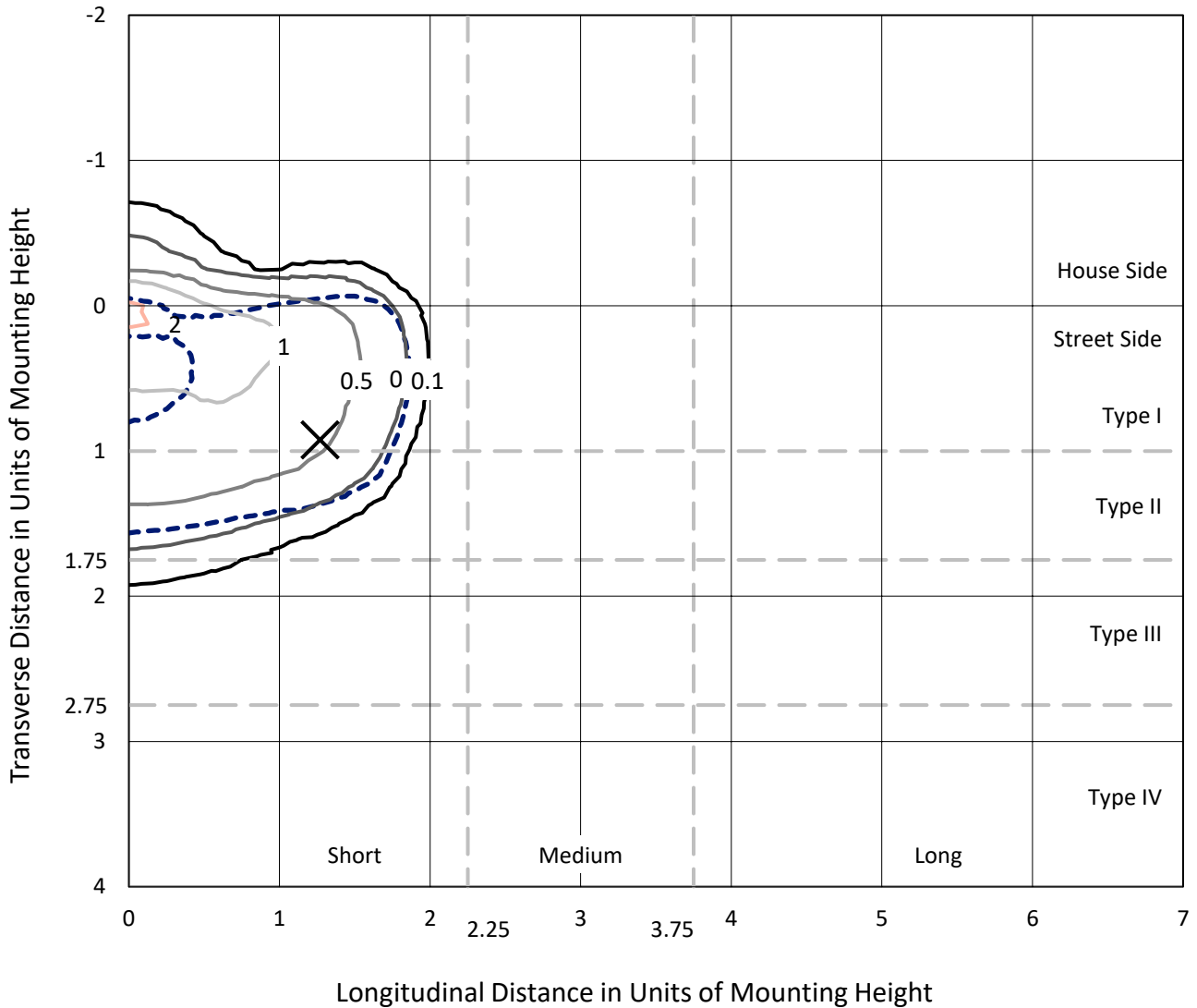
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

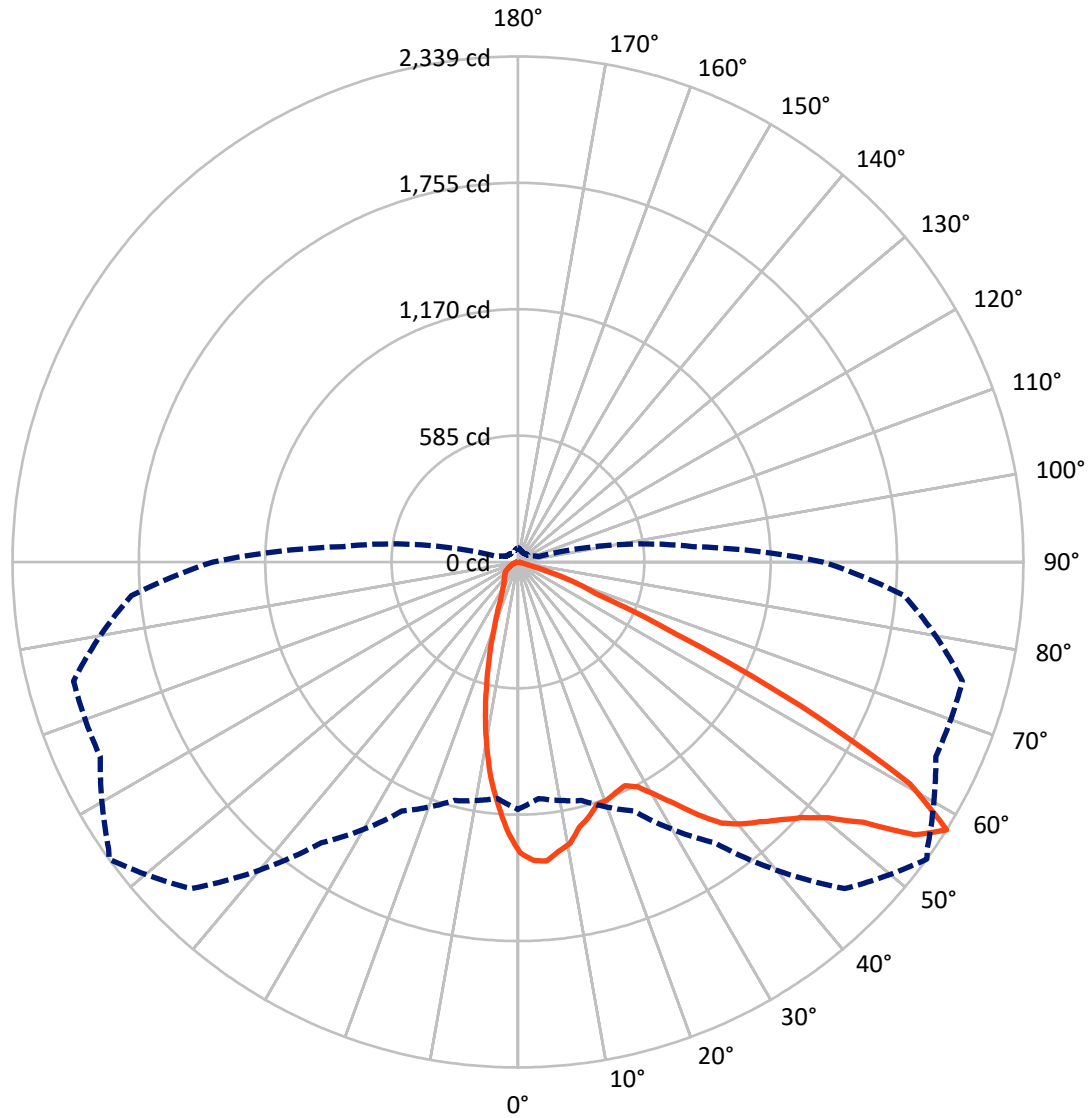
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	432.2	0.0	432.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	2625.9	0.0	2625.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	3058.0	0.0	3058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.7	3.7
10°-20°	240.7	7.9
20°-30°	318.9	10.4
30°-40°	463.5	15.2
40°-50°	687.3	22.5
50°-60°	859.5	28.1
60°-70°	339.0	11.1
70°-80°	33.8	1.1
80°-90°	2.6	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°	3058.0	100.0
0°-180°	3058.0	100.0

Coefficient of Utilization

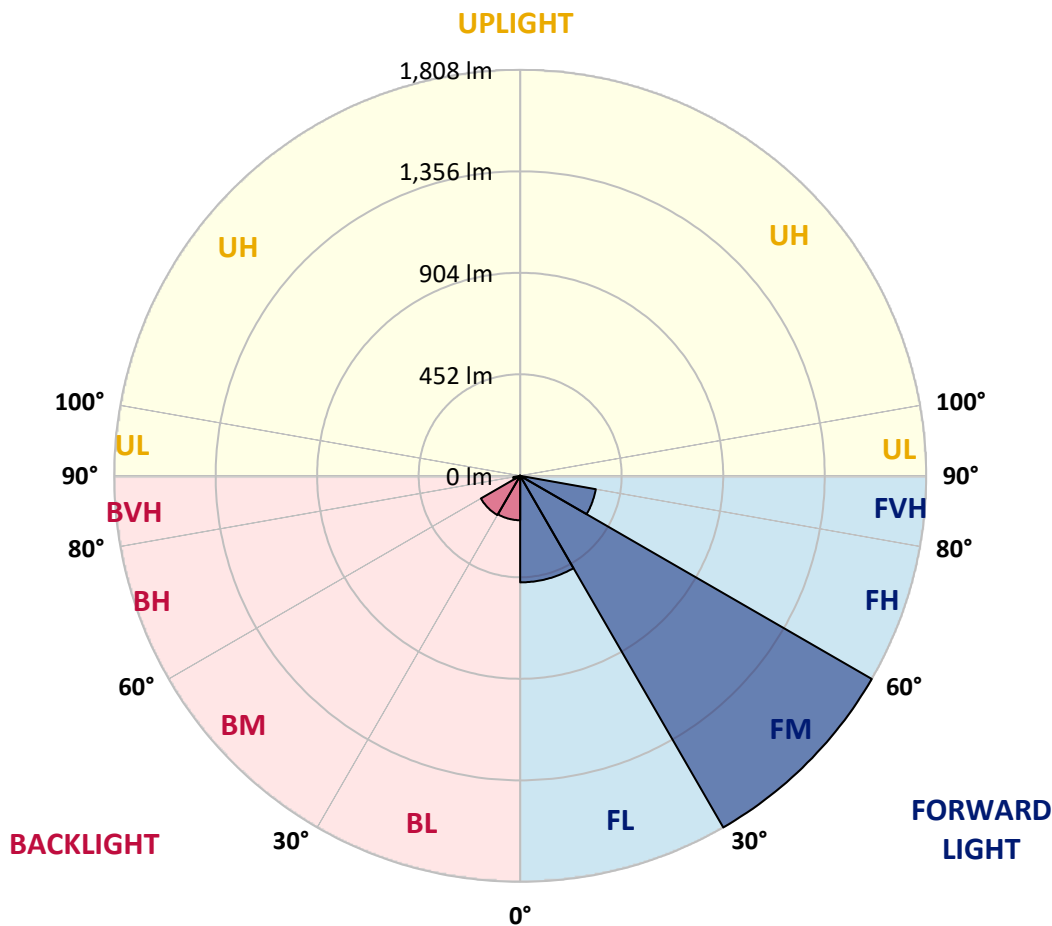


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	474.7	15.5			
FM (30°-60°)	1808.2	59.1			
FH (60°-80°)	341.8	11.2			G0/660
FVH (80°-90°)	1.2	0.0			G0/10
BL (0°-30°)	197.6	6.5	B1/500		
BM (30°-60°)	202.1	6.6	B0/220		
BH (60°-80°)	31.0	1.0	B0/110		G0/110
BVH (80°-90°)	1.4	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°	54°	55°	65°	75°	85°
0°	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1425.6	1410.8	1411.9	1406.8	1400.0	1405.1	1382.9	1388.0	1387.5	1357.3	1337.4
5°	1389.7	1405.7	1389.2	1402.8	1389.7	1404.0	1390.3	1380.1	1363.6	1341.4	1304.4
7.5°	1328.9	1313.5	1318.1	1335.1	1338.0	1369.8	1352.8	1365.9	1359.0	1315.2	1264.6
10°	1206.6	1203.2	1226.0	1248.7	1276.6	1310.7	1323.8	1316.4	1311.3	1294.8	1227.1
12.5°	1112.8	1122.5	1121.9	1159.4	1206.6	1226.0	1260.1	1259.0	1287.4	1256.7	1191.9
15°	1023.5	1028.7	1052.5	1075.9	1128.2	1183.3	1225.4	1231.1	1265.2	1243.6	1164.6
17.5°	968.9	961.6	980.3	1008.2	1061.6	1133.9	1180.5	1194.1	1240.8	1236.2	1133.3
20°	914.9	914.9	930.3	963.3	1012.2	1093.5	1176.5	1172.5	1240.8	1227.7	1099.7
22.5°	896.7	905.8	909.8	934.8	992.8	1062.8	1159.4	1166.8	1250.4	1223.7	1085.0
25°	921.8	909.8	910.9	930.9	985.4	1048.0	1146.9	1163.4	1268.1	1243.6	1073.0
27.5°	925.7	937.7	941.1	954.7	991.1	1052.5	1178.2	1211.8	1311.8	1290.2	1076.4
30°	960.4	972.4	971.8	995.1	1020.1	1089.5	1248.1	1255.0	1402.2	1348.8	1097.5
32.5°	1002.5	1015.0	1019.0	1046.3	1066.2	1157.2	1333.4	1351.1	1489.2	1440.9	1152.6
35°	1054.8	1050.3	1068.5	1095.8	1138.4	1256.1	1437.5	1467.1	1583.1	1560.3	1209.5
37.5°	1120.2	1114.5	1132.1	1176.5	1234.5	1373.2	1533.6	1552.9	1651.3	1671.2	1314.7
40°	1166.3	1168.5	1222.0	1281.7	1343.1	1484.7	1594.4	1613.2	1699.1	1774.7	1394.3
42.5°	1243.0	1257.2	1321.5	1394.3	1458.5	1568.3	1643.9	1662.1	1721.3	1857.7	1501.8
45°	1354.5	1348.2	1419.3	1500.6	1571.7	1655.3	1702.5	1696.2	1734.3	1940.2	1569.4
47.5°	1497.8	1498.9	1546.1	1615.5	1689.4	1730.9	1767.9	1745.7	1761.6	2027.2	1659.8
50°	1595.6	1604.1	1642.2	1713.3	1750.3	1813.9	1861.1	1847.5	1842.4	2079.5	1716.7
52.5°	1620.6	1646.2	1666.7	1755.4	1841.8	1942.4	2002.7	2031.7	1940.7	2097.1	1788.9
55°	1431.8	1454.6	1526.8	1648.5	1876.5	2146.0	2229.0	2229.6	2069.3	2175.6	1839.5
57.5°	1144.7	1098.6	1143.0	1272.0	1586.5	2137.5	2339.4	2312.6	2133.5	2129.5	1795.7
60°	791.5	780.2	783.0	834.2	1098.0	1700.2	2084.6	2119.3	1964.6	1845.8	1421.6
62.5°	627.2	617.5	605.0	599.3	681.8	1059.4	1470.5	1519.4	1373.8	1197.0	842.7
65°	491.3	485.6	487.3	510.1	509.5	601.0	804.0	784.1	627.8	464.0	265.0
67.5°	331.5	340.0	346.9	415.7	450.9	418.5	388.4	377.0	204.1	85.9	58.6
70°	186.5	187.6	195.0	259.9	342.3	324.7	267.8	267.8	101.8	31.3	33.5
72.5°	101.8	98.4	91.5	112.0	152.4	154.7	119.4	104.1	30.1	20.5	18.8
75°	49.5	48.9	42.1	34.7	33.0	27.3	21.0	19.3	13.6	13.1	11.4
77.5°	10.2	9.7	5.1	5.1	5.7	6.3	8.0	8.0	9.7	9.7	8.0
80°	0.0	0.0	0.6	2.3	4.0	5.7	6.8	6.8	8.0	8.0	6.3
82.5°	0.0	0.0	0.6	1.7	3.4	5.1	6.3	6.8	8.0	8.5	6.8
85°	0.0	0.0	0.0	1.1	2.8	4.0	3.4	3.4	2.8	2.3	1.1
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°	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1327.2	1326.1	1299.9	1285.1	1258.4	1235.1	1216.3	1202.7	1202.7	1194.1	1186.2
5°	1289.7	1280.0	1224.3	1188.4	1137.8	1100.3	1074.7	1054.8	1023.5	1032.1	998.5
7.5°	1243.0	1218.6	1144.7	1090.1	1020.1	966.7	912.1	863.8	817.1	796.1	807.5
10°	1193.0	1150.3	1050.8	964.4	877.4	779.6	715.9	638.6	590.8	588.0	575.5
12.5°	1140.1	1091.8	970.7	851.2	736.9	619.2	522.0	449.8	417.4	381.6	388.4
15°	1100.3	1028.7	881.4	737.5	585.7	466.8	369.0	313.3	282.6	274.1	271.2
17.5°	1057.1	980.3	790.4	616.4	459.5	336.1	265.6	238.8	226.9	226.9	225.2
20°	1012.2	925.7	700.0	503.8	344.6	250.8	212.7	204.1	203.6	203.0	203.0
22.5°	982.6	863.2	618.1	400.3	259.9	200.7	184.8	181.4	183.7	190.5	190.5
25°	951.3	802.9	527.7	308.8	201.3	172.3	163.2	165.5	171.2	177.4	175.1
27.5°	919.5	763.7	442.4	242.2	164.9	150.7	147.3	152.4	158.6	164.3	162.6
30°	912.1	721.6	361.7	183.7	141.6	131.4	133.6	138.2	144.4	146.7	149.0
32.5°	923.5	688.6	296.3	150.7	123.4	120.6	120.6	122.8	126.8	131.9	130.2
35°	955.9	669.8	234.3	130.8	113.2	110.3	109.7	112.0	114.3	116.0	114.3
37.5°	1005.3	655.1	191.6	116.0	106.3	101.8	100.6	100.1	102.4	102.9	104.1
40°	1068.5	663.0	162.6	106.9	99.5	94.4	91.0	91.0	91.0	92.7	93.3
42.5°	1136.7	673.8	140.5	101.8	93.3	87.0	83.6	82.5	83.6	85.9	85.3
45°	1208.3	694.9	126.2	93.8	87.6	79.6	75.1	73.9	76.8	81.3	80.7
47.5°	1275.4	725.0	115.4	88.7	81.9	74.5	68.8	67.7	72.8	79.0	79.6
50°	1342.5	777.3	111.5	84.7	77.9	69.4	64.3	63.1	68.8	76.8	78.5
52.5°	1419.9	833.6	108.6	79.6	73.4	65.4	59.7	58.6	64.8	75.1	75.6
55°	1470.5	881.4	106.3	70.5	64.8	59.1	54.6	54.0	60.8	69.9	72.2
57.5°	1411.3	814.9	98.4	61.4	55.2	52.3	48.3	48.3	54.0	62.5	64.3
60°	1070.2	536.2	69.9	49.5	46.6	44.9	43.2	43.2	47.8	54.0	54.6
62.5°	626.6	288.9	44.9	39.8	39.8	38.1	35.3	35.3	39.8	43.2	43.8
65°	185.9	92.7	36.4	34.1	33.5	30.7	27.9	27.3	30.7	32.4	31.8
67.5°	53.5	42.6	30.1	28.4	27.9	23.3	21.6	21.0	21.6	20.5	19.9
70°	31.8	29.0	23.3	23.9	21.0	17.1	15.4	14.8	13.6	11.9	10.8
72.5°	17.6	17.6	17.1	18.2	14.8	11.4	9.7	8.0	6.3	5.1	4.5
75°	10.8	11.4	11.9	12.5	9.7	7.4	6.3	4.0	2.3	1.1	1.1
77.5°	7.4	8.0	8.5	9.1	8.0	6.8	5.1	2.8	0.6	0.0	0.0
80°	5.7	6.3	7.4	8.0	8.5	9.1	6.8	2.8	0.6	0.0	0.0
82.5°	6.3	6.8	8.5	8.0	8.0	8.0	6.3	2.8	0.6	0.0	0.0
85°	1.1	1.7	2.8	2.8	4.0	5.1	4.0	1.1	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)