

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: P526096

Luminaire Tested: **GALN-SA1A-735-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3890 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

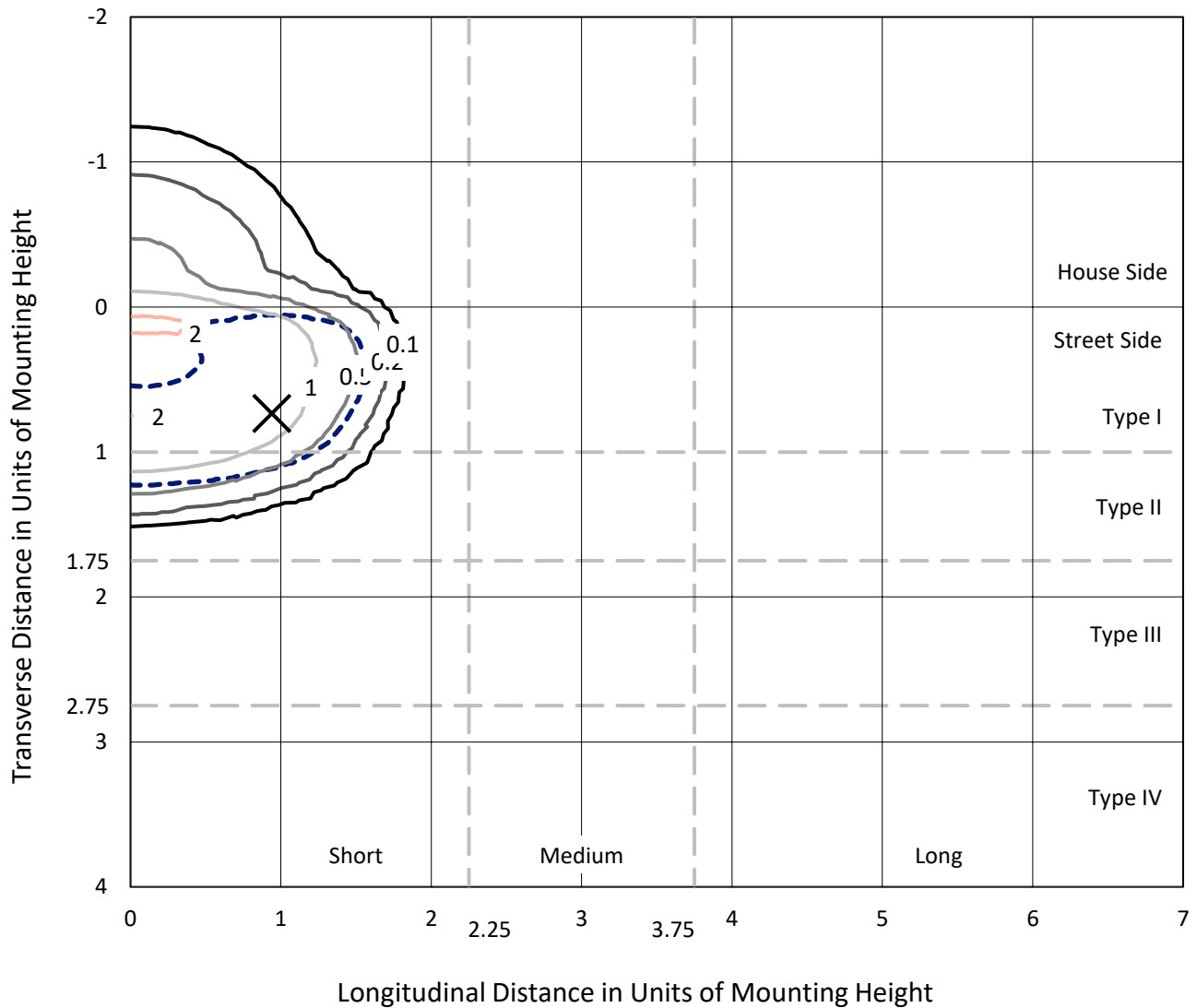
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

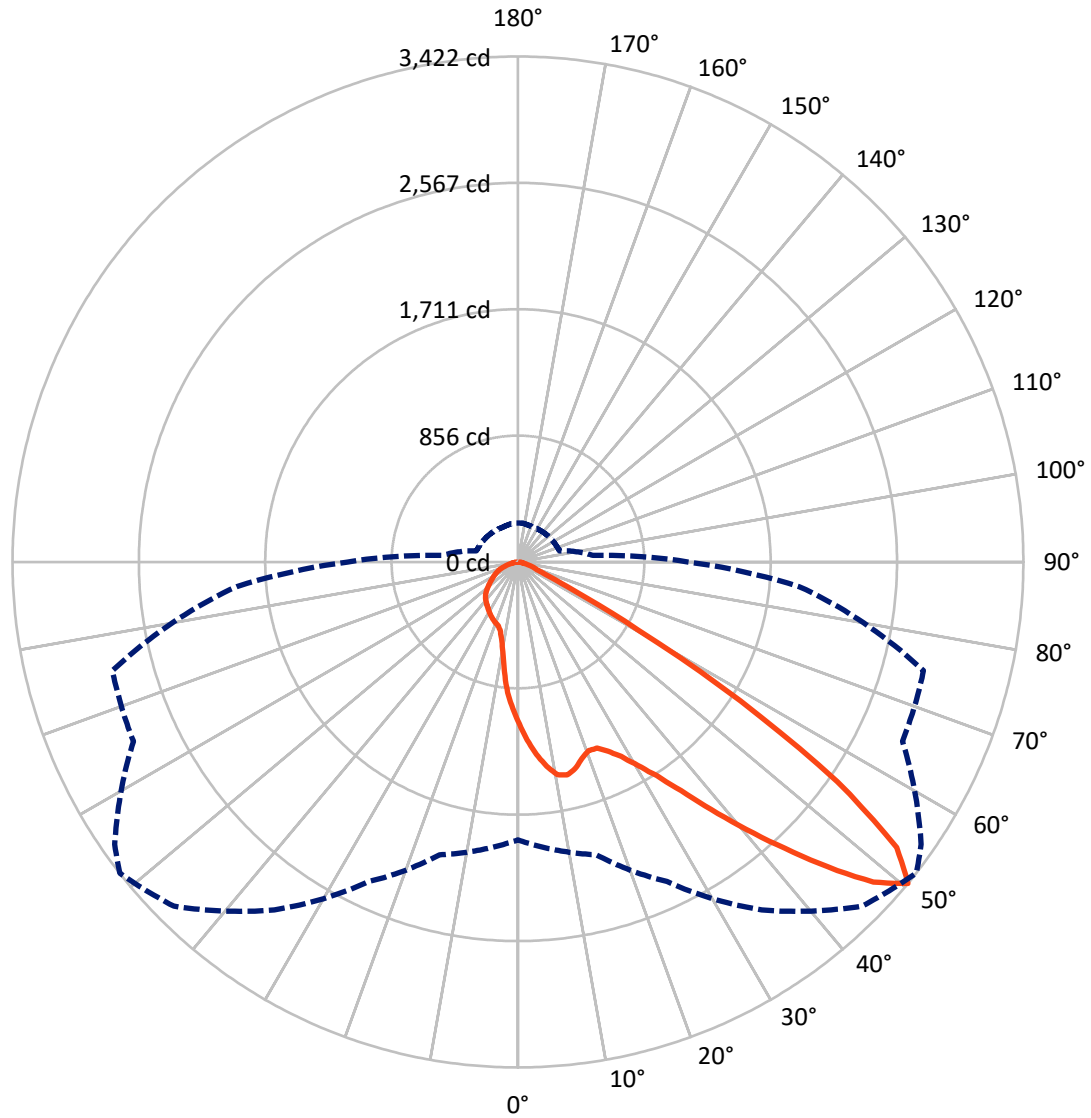
✕ Max cd
 - - - 1/2 Max cd



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 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	731.2	0.0	731.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3158.8	0.0	3158.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	3890.0	0.0	3890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	2.6
10°-20°	270.9	7.0
20°-30°	456.3	11.7
30°-40°	765.7	19.7
40°-50°	1171.3	30.1
50°-60°	854.0	22.0
60°-70°	190.1	4.9
70°-80°	68.5	1.8
80°-90°	12.1	0.3
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°	3890.0	100.0
0°-180°	3890.0	100.0

Coefficient of Utilization

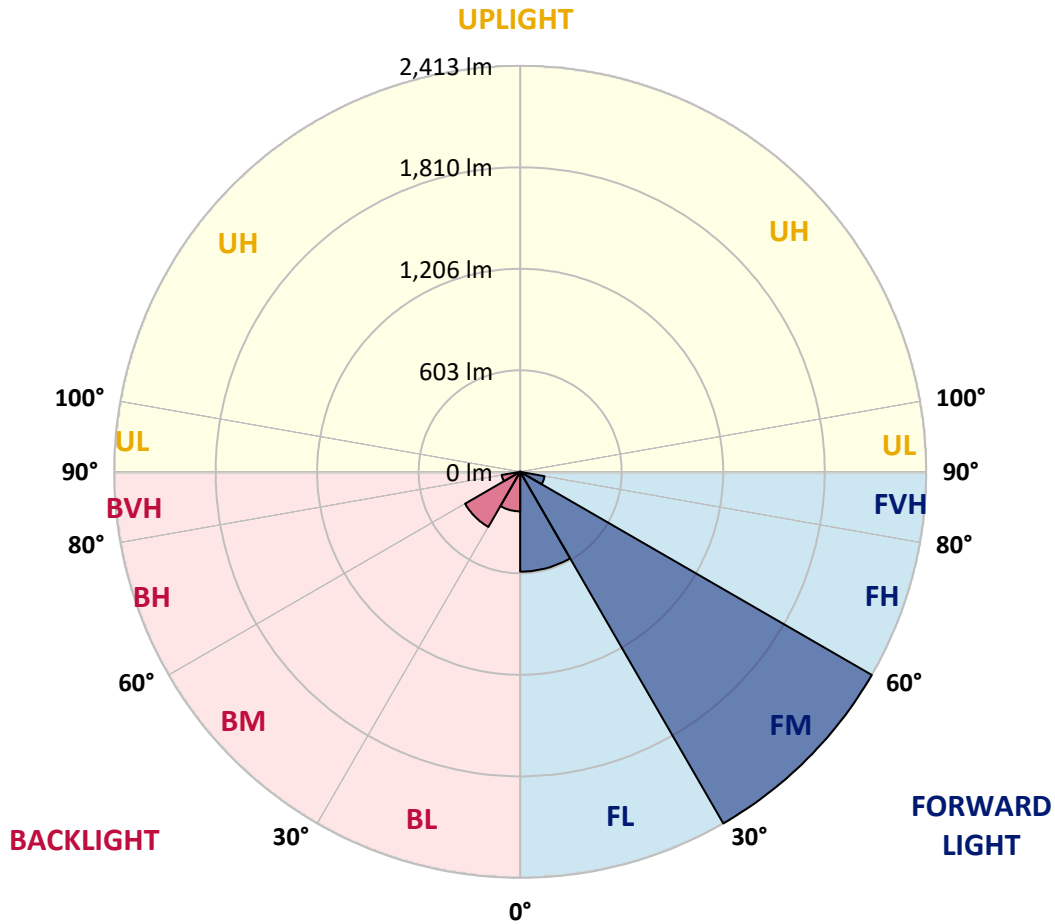


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	593.4	15.3			
FM (30°-60°)	2412.8	62.0			
FH (60°-80°)	147.2	3.8			G0/660
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	234.9	6.0	B1/500		
BM (30°-60°)	378.2	9.7	B1/1000		
BH (60°-80°)	111.4	2.9	B1/500		G1/500
BVH (80°-90°)	6.7	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5
2.5°	1291.1	1266.2	1269.0	1251.2	1232.0	1226.4	1206.7	1187.9	1173.9	1143.9	1116.2
5°	1411.1	1403.6	1392.3	1378.3	1363.7	1328.1	1308.0	1284.5	1232.9	1186.5	1140.6
7.5°	1428.4	1427.0	1433.1	1433.1	1438.3	1424.7	1396.1	1379.7	1324.8	1249.4	1164.0
10°	1306.5	1310.8	1340.3	1378.7	1432.2	1469.2	1464.5	1460.3	1400.3	1297.2	1191.7
12.5°	1209.5	1200.1	1217.5	1250.3	1330.5	1420.0	1480.5	1480.9	1465.5	1373.6	1211.9
15°	1154.7	1161.2	1165.9	1181.4	1241.9	1345.5	1451.9	1483.3	1551.3	1427.5	1243.7
17.5°	1189.8	1167.8	1166.8	1170.6	1201.5	1279.4	1398.9	1452.8	1598.1	1496.9	1283.1
20°	1235.8	1235.3	1222.2	1217.5	1217.0	1286.4	1364.2	1437.3	1623.0	1586.9	1323.0
22.5°	1316.4	1316.4	1294.8	1284.5	1262.5	1319.2	1368.9	1418.6	1664.2	1648.8	1342.2
25°	1451.4	1429.4	1392.3	1367.0	1354.4	1374.5	1418.6	1463.1	1700.3	1714.4	1382.0
27.5°	1576.1	1541.4	1523.1	1479.5	1462.7	1450.9	1491.3	1536.3	1742.5	1816.6	1403.6
30°	1717.7	1711.6	1678.8	1622.5	1580.8	1559.2	1596.3	1640.8	1819.9	1921.1	1453.3
32.5°	1970.8	1915.5	1871.0	1802.1	1734.1	1688.2	1724.7	1754.3	1948.3	2030.4	1507.7
35°	2244.2	2226.3	2149.5	2025.2	1921.1	1879.9	1901.5	1923.5	2097.9	2197.3	1599.1
37.5°	2512.8	2488.4	2425.1	2320.6	2194.0	2110.1	2125.5	2151.3	2265.7	2422.3	1710.7
40°	2705.9	2675.9	2644.0	2628.6	2502.9	2388.1	2379.2	2385.7	2492.6	2633.3	1834.4
42.5°	2720.0	2757.0	2766.9	2829.2	2799.7	2705.5	2650.6	2652.0	2709.2	2841.9	1959.6
45°	2690.5	2656.2	2728.9	2899.1	2996.6	3040.6	2948.3	2936.6	2843.3	2962.8	2021.9
47.5°	2380.6	2389.9	2512.8	2781.9	3063.6	3260.5	3238.9	3200.0	2915.0	2958.6	2012.1
50°	1881.8	1938.5	2052.4	2387.6	2876.1	3295.2	3422.3	3332.2	2872.3	2842.3	1911.8
52.5°	1253.1	1276.5	1351.6	1784.3	2312.6	2945.5	3211.3	3231.9	2833.0	2690.0	1784.7
55°	557.9	556.0	661.5	932.0	1450.9	2241.3	2623.9	2749.5	2681.5	2534.8	1661.0
57.5°	236.3	244.2	287.4	402.7	713.5	1352.5	1777.7	1887.9	2062.3	2081.5	1274.2
60°	159.9	160.8	172.5	201.6	298.6	635.2	932.4	1064.6	1189.3	1180.9	676.0
62.5°	125.6	128.9	137.8	149.5	177.2	288.3	417.2	490.8	498.8	419.6	256.4
65°	107.4	107.8	116.7	126.6	138.8	167.8	201.1	204.9	207.2	199.7	188.5
67.5°	88.6	89.5	96.6	107.8	119.1	128.5	137.8	142.5	153.3	174.4	171.6
70°	70.3	71.7	77.8	87.2	97.5	103.1	114.9	119.1	128.9	145.3	151.9
72.5°	53.4	53.9	59.1	65.6	75.0	80.6	90.5	95.2	101.7	115.8	121.9
75°	38.4	39.8	43.6	46.9	48.3	52.0	61.4	66.6	75.9	82.0	82.5
77.5°	20.2	21.1	22.0	22.0	26.7	33.8	39.8	42.7	49.2	53.9	51.6
80°	8.0	8.4	10.8	14.5	18.8	24.4	28.6	30.0	35.6	38.4	39.8
82.5°	4.7	5.2	7.0	10.3	13.6	17.3	20.6	22.0	25.8	29.1	30.0
85°	2.3	2.8	4.2	6.6	8.9	10.8	10.3	9.8	9.8	9.4	9.8
87.5°	0.9	0.9	1.4	1.4	1.4	1.9	2.3	2.3	2.3	2.8	2.8
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°	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5	1096.5
2.5°	1097.9	1079.2	1061.8	1030.0	995.3	985.4	945.1	930.6	920.3	908.1	904.3
5°	1103.6	1078.7	1022.9	958.7	907.6	842.0	798.8	752.4	718.7	710.2	707.9
7.5°	1115.3	1072.6	976.5	879.5	774.9	685.9	617.9	581.3	549.0	547.1	543.8
10°	1128.4	1054.3	925.9	773.5	639.9	557.4	516.6	500.7	492.7	490.8	489.9
12.5°	1139.2	1050.6	869.2	670.4	544.3	494.6	482.4	481.0	484.3	485.2	487.1
15°	1143.9	1035.6	800.7	578.0	484.7	466.5	471.6	477.2	479.6	485.7	481.0
17.5°	1152.8	1016.4	716.3	504.9	451.5	454.7	463.6	470.2	474.0	478.2	472.1
20°	1157.5	999.0	637.1	461.3	439.7	445.8	458.0	463.2	467.9	469.7	462.7
22.5°	1153.3	963.4	567.2	426.1	428.5	436.5	447.2	452.9	450.0	442.5	438.3
25°	1142.0	913.2	494.6	403.6	412.5	426.6	435.0	430.8	425.7	421.5	420.0
27.5°	1141.5	851.8	442.1	383.0	399.0	418.2	415.4	411.6	414.0	410.7	406.9
30°	1143.9	792.3	399.0	371.3	389.1	398.5	401.8	398.0	400.8	394.7	396.6
32.5°	1131.7	734.1	370.8	357.7	377.4	376.9	387.7	390.5	383.9	371.3	373.2
35°	1136.8	687.3	346.9	351.6	364.3	364.3	372.7	369.4	352.1	344.6	346.4
37.5°	1172.5	641.3	335.2	343.2	351.6	355.4	352.5	338.5	334.3	334.3	335.2
40°	1206.2	601.9	328.2	341.3	339.9	342.2	321.6	323.0	323.0	323.5	321.1
42.5°	1236.2	575.2	322.5	330.0	332.4	320.2	307.5	306.1	309.4	308.9	307.1
45°	1247.0	553.2	314.6	317.4	319.3	299.1	293.0	290.2	293.9	295.3	297.2
47.5°	1205.8	534.9	305.7	300.0	296.3	283.2	275.2	270.0	274.7	282.7	284.6
50°	1152.8	511.0	291.6	280.8	272.8	267.2	261.6	256.4	259.7	265.3	263.9
52.5°	1074.5	473.5	273.8	262.5	248.9	250.3	245.2	242.4	244.2	244.2	242.8
55°	962.9	389.1	243.8	235.8	224.6	228.3	229.2	225.5	221.7	225.0	222.2
57.5°	657.3	274.7	217.5	217.5	206.3	211.4	211.0	202.1	193.1	194.1	192.2
60°	380.2	218.9	200.6	198.8	187.1	191.3	192.2	186.1	172.5	173.5	171.6
62.5°	216.1	187.1	175.3	172.5	170.2	173.9	173.9	166.0	154.2	155.2	153.3
65°	183.8	173.5	156.6	156.1	155.2	156.1	152.4	143.9	133.6	129.4	129.9
67.5°	166.9	160.3	143.9	139.7	136.9	136.4	129.4	121.4	116.7	113.0	112.5
70°	146.3	141.1	128.9	123.3	120.5	113.9	106.9	101.7	95.2	93.3	95.2
72.5°	115.8	115.3	110.6	104.5	98.4	93.3	87.2	80.2	74.1	72.7	69.4
75°	80.2	81.1	82.0	81.1	75.9	69.4	62.4	56.7	49.2	45.0	44.1
77.5°	52.5	53.9	55.3	53.4	50.2	44.1	39.4	32.3	26.7	23.4	23.0
80°	38.4	40.3	41.3	39.8	36.1	31.4	26.3	20.6	16.4	13.6	13.6
82.5°	29.5	31.4	32.3	30.0	26.3	22.5	18.8	14.5	11.3	8.9	8.4
85°	10.3	9.8	11.7	12.2	14.5	13.6	11.3	8.4	6.6	4.7	4.2
87.5°	2.8	2.8	3.3	3.3	2.8	2.3	2.3	2.3	1.9	1.4	1.4
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)