

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: P526667

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
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-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3901 lumens
Efficiency: N/A
Efficacy: 68.4 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

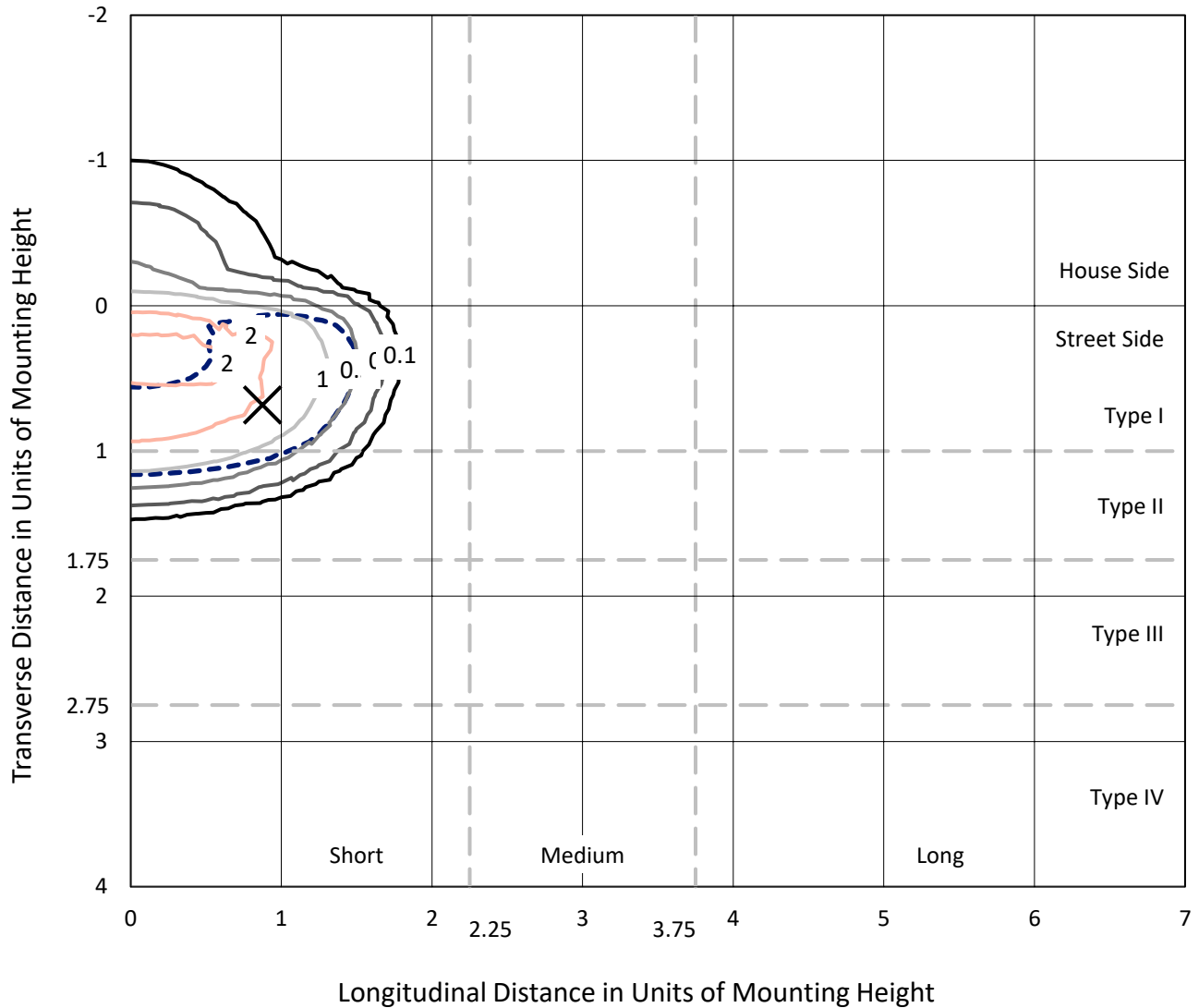
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

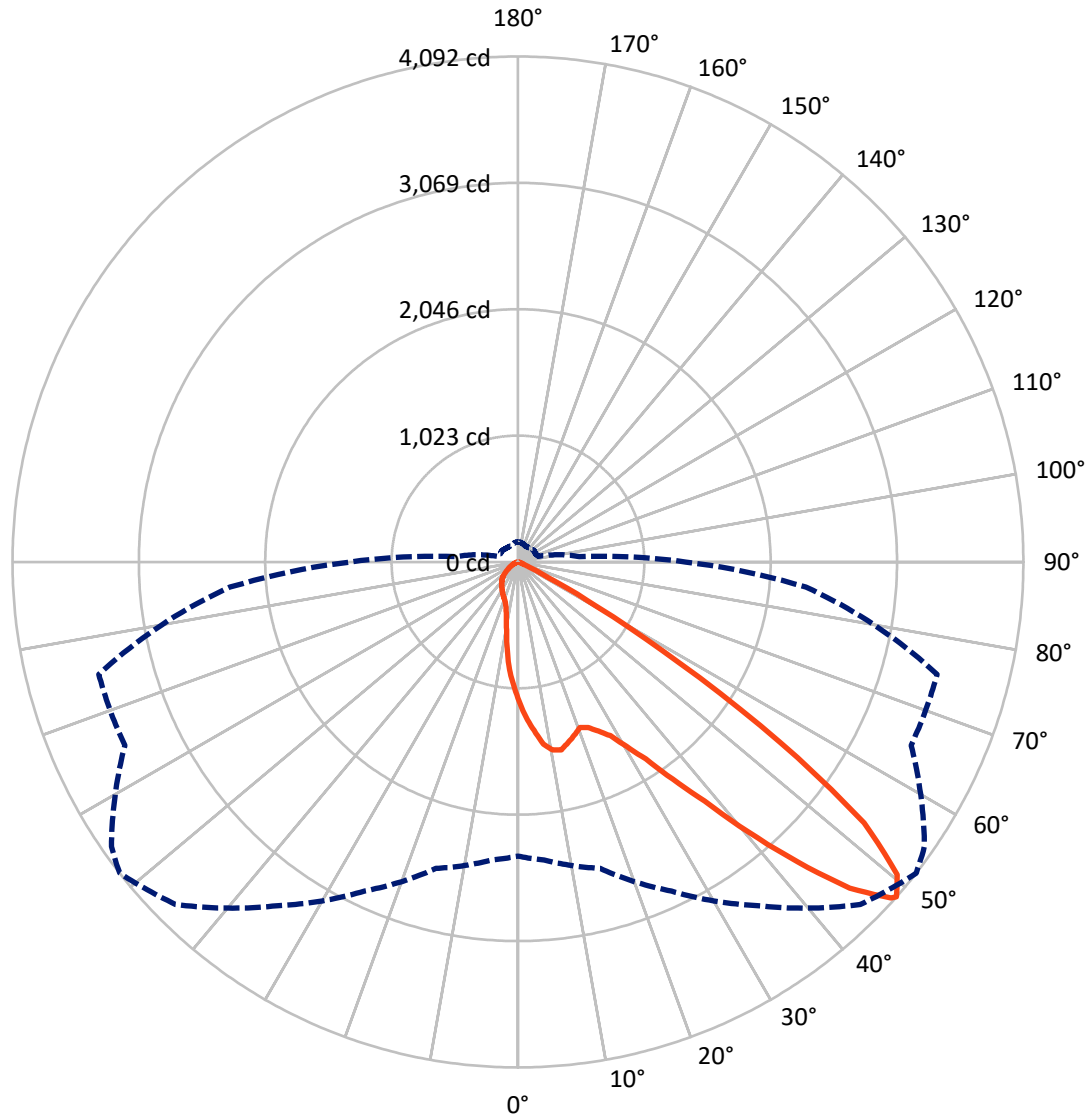
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	475.0	0.0	475.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3426.0	0.0	3426.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	3901.0	0.0	3901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.1	2.6
10°-20°	269.5	6.9
20°-30°	460.1	11.8
30°-40°	847.3	21.7
40°-50°	1315.8	33.7
50°-60°	791.9	20.3
60°-70°	91.6	2.3
70°-80°	17.7	0.5
80°-90°	4.1	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°	3901.0	100.0
0°-180°	3901.0	100.0

Coefficient of Utilization



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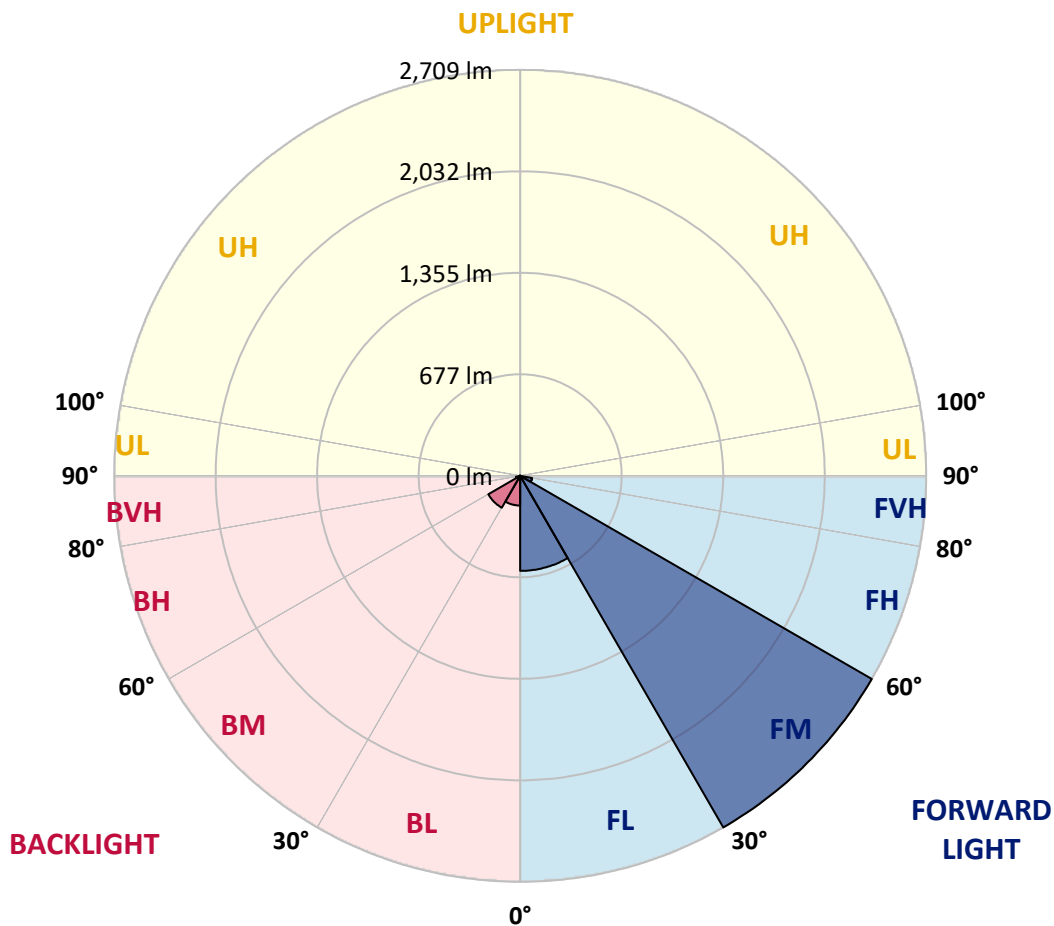
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.2	16.3			
FM (30°-60°)	2709.2	69.4			
FH (60°-80°)	80.6	2.1			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	198.4	5.1	B1/500		
BM (30°-60°)	245.7	6.3	B1/1000		
BH (60°-80°)	28.7	0.7	B0/110		G0/110
BVH (80°-90°)	2.1	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°	52°	55°	65°	75°	85°
0°	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5
2.5°	1365.4	1334.1	1337.0	1316.5	1304.5	1285.2	1259.0	1253.9	1225.5	1186.8	1147.6
5°	1488.2	1480.8	1490.5	1460.9	1462.1	1430.2	1368.8	1369.9	1304.5	1241.4	1180.6
7.5°	1496.2	1479.1	1488.8	1514.9	1530.3	1524.6	1489.9	1459.8	1397.8	1305.1	1216.4
10°	1339.8	1372.2	1382.4	1425.7	1487.1	1551.9	1547.9	1549.6	1497.9	1376.8	1247.1
12.5°	1246.0	1224.4	1259.0	1285.2	1377.9	1503.6	1561.0	1573.5	1577.5	1446.1	1277.8
15°	1203.3	1203.3	1209.0	1216.4	1283.5	1399.5	1516.7	1553.0	1638.9	1537.1	1326.1
17.5°	1230.0	1228.9	1236.9	1221.5	1246.5	1335.8	1475.7	1517.2	1707.7	1626.4	1364.2
20°	1311.4	1315.3	1310.2	1265.9	1267.6	1334.7	1430.2	1495.6	1754.4	1703.7	1414.9
22.5°	1424.5	1426.8	1397.8	1349.5	1335.2	1368.2	1456.4	1506.4	1791.9	1796.4	1430.2
25°	1555.3	1546.2	1540.5	1472.3	1429.1	1457.5	1515.5	1544.5	1815.2	1876.1	1474.0
27.5°	1736.7	1718.5	1683.8	1623.0	1591.2	1550.8	1592.3	1640.1	1881.7	1987.5	1521.8
30°	2004.6	1988.7	1921.0	1842.5	1758.9	1719.1	1732.2	1758.3	2001.7	2116.6	1584.9
32.5°	2407.8	2374.2	2276.4	2126.8	2013.1	1903.4	1899.9	1927.8	2109.2	2295.2	1660.0
35°	2851.9	2841.7	2697.8	2543.7	2323.6	2154.1	2157.0	2171.8	2315.1	2529.5	1758.3
37.5°	3147.0	3203.3	3111.8	2946.3	2761.5	2519.2	2457.8	2462.9	2597.7	2807.0	1935.8
40°	3375.1	3327.3	3338.1	3299.4	3173.2	3008.3	2872.4	2845.6	2924.7	3114.1	2112.1
42.5°	3275.6	3277.8	3344.4	3435.9	3467.2	3455.3	3316.5	3265.9	3204.5	3365.4	2279.8
45°	2994.6	3053.2	3139.7	3381.9	3594.6	3794.2	3766.9	3682.7	3397.8	3564.5	2376.5
47.5°	2546.5	2544.2	2685.8	3000.9	3473.5	3940.9	4064.9	4005.7	3534.9	3542.3	2356.6
48°	2381.0	2422.0	2568.1	2938.9	3396.7	3919.3	4091.6	4017.1	3511.6	3512.7	2339.5
50°	1760.0	1752.7	1934.6	2389.6	3033.9	3682.7	3979.0	4037.0	3511.0	3363.1	2220.1
52.5°	929.8	961.6	1094.1	1502.4	2145.0	3014.0	3509.9	3600.3	3387.0	3118.6	2048.4
55°	395.2	357.1	458.9	678.4	1206.7	2013.7	2575.0	2776.3	2863.8	2759.8	1791.9
57.5°	141.0	154.1	177.4	255.3	507.3	1102.1	1535.4	1691.8	1984.1	2025.0	1220.9
60°	90.4	92.1	99.5	117.1	190.5	424.8	728.5	853.0	985.5	1017.4	569.8
62.5°	69.9	70.5	73.9	76.8	90.4	164.9	273.5	324.1	336.7	289.5	149.6
65°	58.6	59.1	60.3	60.3	64.3	77.3	95.5	105.2	102.4	101.2	84.7
67.5°	44.9	46.1	48.3	48.3	50.6	47.2	52.9	56.3	63.7	77.3	72.2
70°	35.3	35.8	37.5	38.7	38.7	34.1	38.1	41.5	46.6	57.4	56.9
72.5°	27.3	28.4	29.6	29.6	27.9	23.3	27.3	30.1	33.6	39.8	38.7
75°	21.0	21.0	21.6	17.6	13.6	11.9	16.5	19.9	25.0	26.2	21.6
77.5°	5.7	6.3	5.7	5.1	5.7	8.5	10.8	12.5	15.9	15.9	14.2
80°	0.0	0.6	1.7	3.4	5.7	8.0	9.7	10.8	12.5	13.6	13.1
82.5°	0.0	0.6	1.7	3.4	5.1	6.3	8.5	9.1	10.2	11.9	11.9
85°	0.0	0.6	1.1	2.3	3.4	4.0	4.0	3.4	3.4	2.8	2.3
87.5°	0.0	0.0	0.6	1.1	1.1	1.7	1.7	1.7	1.7	1.7	1.7
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°	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5	1126.5
2.5°	1132.2	1114.6	1087.9	1045.8	1005.4	979.3	954.2	926.4	911.0	909.9	901.3
5°	1145.9	1106.1	1042.4	970.2	892.8	826.3	759.2	715.4	676.2	654.5	650.6
7.5°	1153.3	1101.5	998.6	877.5	745.5	636.9	561.9	506.7	485.1	469.2	468.6
10°	1168.6	1093.6	933.2	754.6	591.4	481.7	429.9	404.9	393.0	388.4	381.6
12.5°	1180.0	1078.8	866.1	628.4	467.5	399.2	376.5	370.8	371.3	373.6	370.8
15°	1195.9	1065.7	775.7	515.8	392.4	359.4	359.4	360.5	368.5	369.6	369.1
17.5°	1194.8	1040.1	682.4	424.8	346.9	342.3	344.0	354.9	360.0	361.7	357.7
20°	1208.4	1016.2	586.3	362.8	321.3	328.1	339.5	342.3	348.6	349.7	345.2
22.5°	1204.5	956.5	497.0	313.9	302.0	315.0	326.4	329.8	328.1	324.7	324.1
25°	1197.1	905.3	415.1	281.5	287.7	302.0	312.8	306.5	303.1	303.7	304.2
27.5°	1184.0	840.5	347.5	258.7	268.4	289.5	288.9	286.6	290.0	287.2	290.0
30°	1181.7	775.7	291.7	238.3	254.2	269.6	270.7	274.7	278.7	273.5	278.7
32.5°	1185.1	704.6	251.9	225.8	245.7	246.2	258.7	262.7	259.9	248.5	249.6
35°	1211.3	650.0	222.9	218.9	232.0	232.6	244.5	239.4	226.9	220.1	224.1
37.5°	1266.4	604.5	209.3	212.7	213.8	221.2	221.8	211.5	212.7	212.1	214.4
40°	1337.0	569.8	199.6	207.0	205.9	211.0	190.5	196.2	201.3	203.0	204.2
42.5°	1385.3	544.8	193.3	197.9	195.6	186.5	175.2	180.8	184.8	191.1	192.2
45°	1406.9	524.9	186.0	182.0	182.0	165.5	160.9	162.1	171.2	178.0	176.9
47.5°	1371.6	505.6	172.9	160.9	164.9	151.3	146.1	146.1	155.8	164.3	162.6
48°	1358.0	497.6	173.4	156.4	159.2	149.0	143.9	142.7	153.5	161.5	161.5
50°	1290.3	468.0	158.7	143.9	138.2	137.1	133.6	134.8	141.6	149.0	149.0
52.5°	1158.4	404.3	134.2	123.4	113.2	120.0	121.7	119.4	122.8	129.7	129.1
55°	966.7	310.5	107.5	102.4	94.4	101.8	105.2	102.4	98.9	104.1	104.1
57.5°	619.3	167.2	85.9	87.0	79.0	86.4	89.3	82.5	76.2	80.2	79.6
60°	279.2	100.1	70.5	68.8	63.7	72.2	76.8	68.8	60.3	63.1	66.0
62.5°	104.6	71.1	53.5	52.3	51.2	59.1	61.4	55.2	46.6	48.3	48.9
65°	76.8	62.6	42.7	38.7	40.9	46.6	45.5	39.2	33.6	33.6	34.7
67.5°	65.4	54.6	34.7	30.1	30.1	30.7	28.4	25.0	23.3	24.5	25.6
70°	51.2	43.2	27.3	23.3	21.0	18.8	16.5	15.9	14.2	15.9	15.4
72.5°	33.0	29.0	21.0	17.6	15.9	13.1	10.8	10.2	8.5	8.0	8.0
75°	17.6	17.6	16.5	14.2	12.5	10.2	8.5	6.8	4.5	3.4	3.4
77.5°	12.5	13.6	14.8	13.6	11.4	8.5	6.8	4.5	2.3	1.1	1.1
80°	11.9	13.6	14.8	13.1	11.4	8.5	6.3	3.4	1.7	0.6	0.6
82.5°	10.8	12.5	13.6	11.9	10.2	7.4	5.7	3.4	1.7	0.6	0.6
85°	2.3	2.8	3.4	3.4	4.0	5.1	4.0	2.8	1.1	0.6	0.6
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.1	1.1	0.6	0.6	0.6
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)