

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: P526122

Luminaire Tested: **GALN-SA1A-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526122
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-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 4176 lumens
Efficiency: N/A
Efficacy: 126.5 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

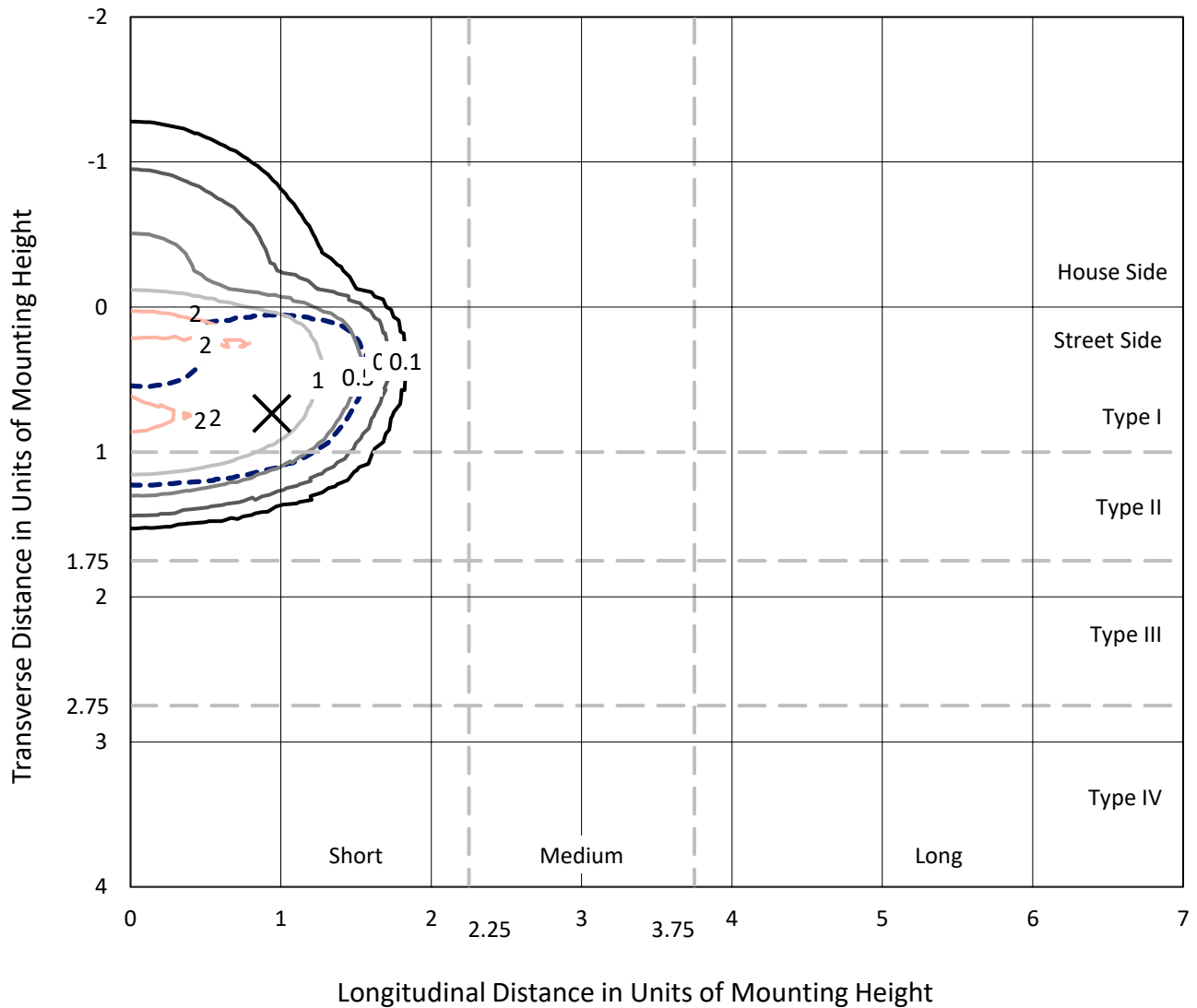
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P526122
 CATALOG NUMBER: GALN-SA1A-740-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

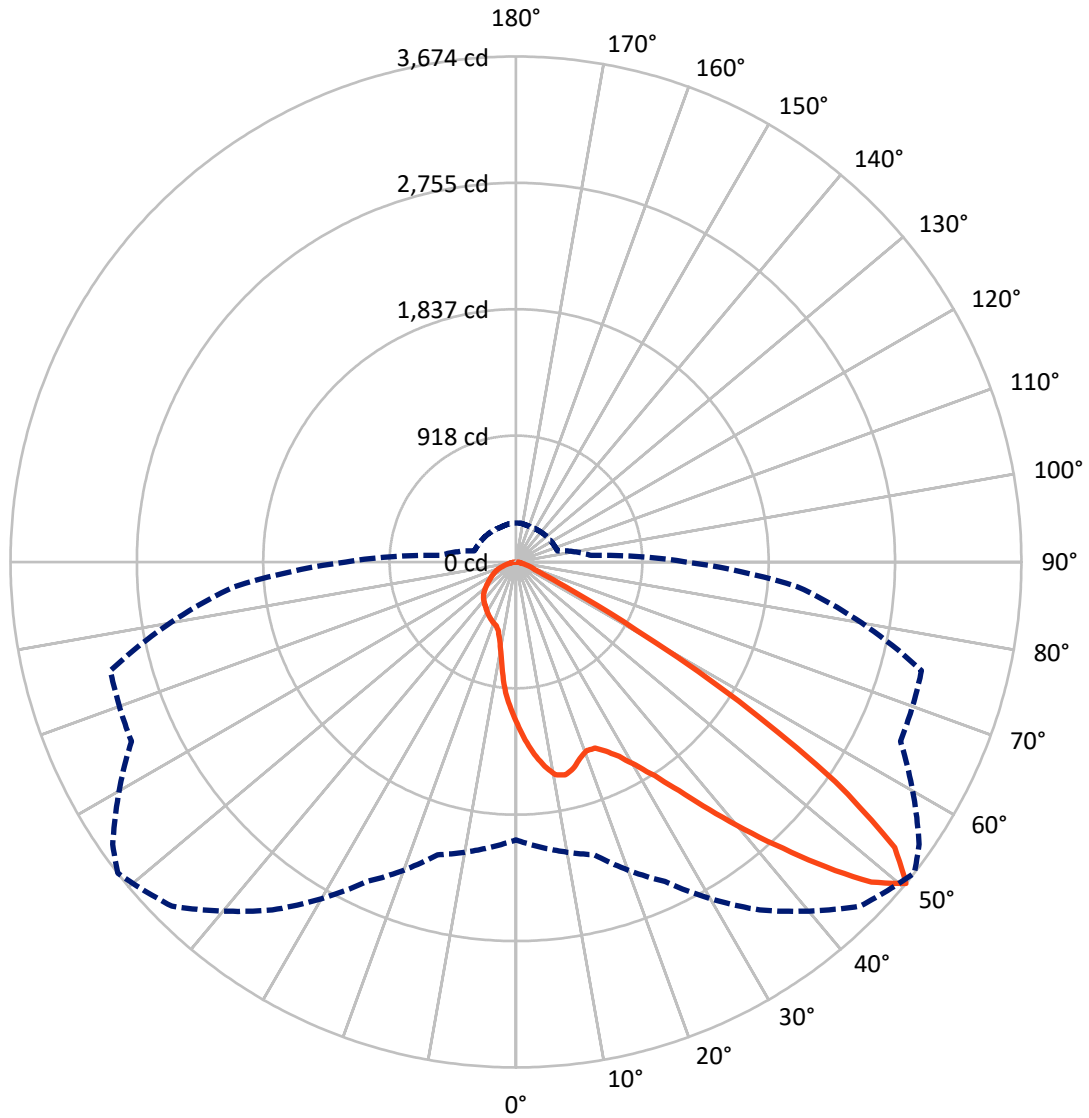
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type II - Short - N/A

REPORT NUMBER: P526122
CATALOG NUMBER: GALN-SA1A-740-U-AFL-GRSWH

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	785.0	0.0	785.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3391.0	0.0	3391.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	4176.0	0.0	4176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	2.6
10°-20°	290.8	7.0
20°-30°	489.8	11.7
30°-40°	822.0	19.7
40°-50°	1257.4	30.1
50°-60°	916.8	22.0
60°-70°	204.0	4.9
70°-80°	73.6	1.8
80°-90°	13.0	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°	4176.0	100.0
0°-180°	4176.0	100.0

Coefficient of Utilization



REPORT NUMBER: P526122

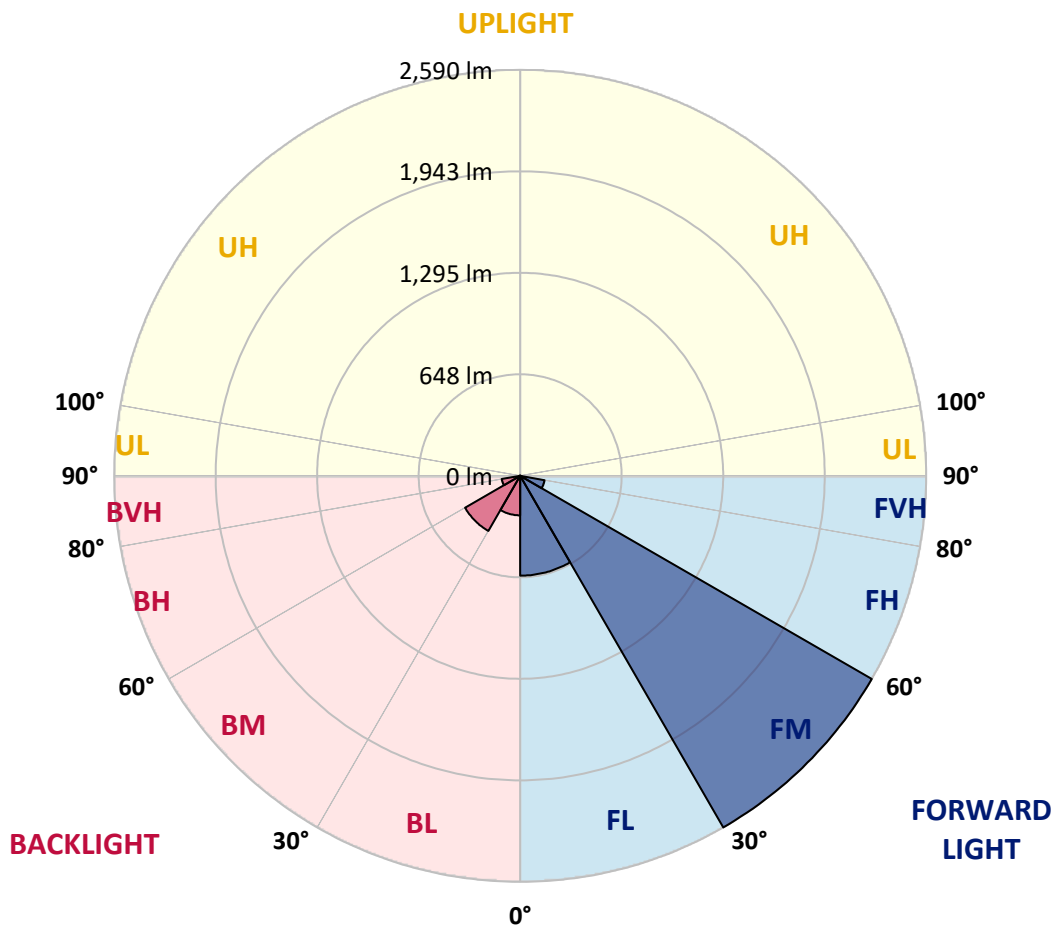
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	637.0	15.3			
FM (30°-60°)	2590.2	62.0			
FH (60°-80°)	158.0	3.8			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	252.2	6.0	B1/500		
BM (30°-60°)	406.0	9.7	B1/1000		
BH (60°-80°)	119.6	2.9	B1/500		G1/500
BVH (80°-90°)	7.2	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





REPORT NUMBER: P526122

CATALOG NUMBER: GALN-SA1A-740-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1386.0	1359.3	1362.3	1343.2	1322.6	1316.6	1295.4	1275.3	1260.2	1228.0	1198.3
5°	1514.8	1506.8	1494.7	1479.6	1464.0	1425.8	1404.1	1379.0	1323.6	1273.8	1224.5
7.5°	1533.5	1531.9	1538.5	1538.5	1544.0	1529.4	1498.7	1481.1	1422.2	1341.2	1249.6
10°	1402.6	1407.1	1438.8	1480.1	1537.5	1577.2	1572.2	1567.7	1503.3	1392.5	1279.3
12.5°	1298.4	1288.4	1307.0	1342.2	1428.3	1524.4	1589.3	1589.8	1573.2	1474.6	1300.9
15°	1239.6	1246.6	1251.6	1268.2	1333.2	1444.4	1558.6	1592.3	1665.3	1532.5	1335.2
17.5°	1277.3	1253.6	1252.6	1256.7	1289.9	1373.4	1501.8	1559.6	1715.6	1606.9	1377.4
20°	1326.6	1326.1	1312.0	1307.0	1306.5	1381.0	1464.5	1543.0	1742.3	1703.6	1420.2
22.5°	1413.2	1413.2	1390.0	1379.0	1355.3	1416.2	1469.5	1522.9	1786.6	1770.0	1440.9
25°	1558.1	1534.5	1494.7	1467.5	1453.9	1475.6	1522.9	1570.7	1825.4	1840.5	1483.6
27.5°	1692.0	1654.7	1635.1	1588.3	1570.2	1557.6	1600.9	1649.2	1870.6	1950.2	1506.8
30°	1844.0	1837.4	1802.2	1741.8	1697.0	1673.9	1713.6	1761.4	1953.7	2062.4	1560.1
32.5°	2115.7	2056.4	2008.5	1934.6	1861.6	1812.3	1851.5	1883.2	2091.6	2179.7	1618.5
35°	2409.1	2390.0	2307.5	2174.1	2062.4	2018.1	2041.3	2064.9	2252.1	2358.8	1716.6
37.5°	2697.5	2671.3	2603.4	2491.2	2355.3	2265.2	2281.8	2309.5	2432.3	2600.4	1836.4
40°	2904.9	2872.7	2838.4	2821.8	2687.0	2563.7	2554.1	2561.1	2675.9	2826.9	1969.3
42.5°	2920.0	2959.7	2970.3	3037.2	3005.5	2904.4	2845.5	2847.0	2908.4	3050.8	2103.7
45°	2888.3	2851.5	2929.5	3112.2	3216.9	3264.2	3165.1	3152.5	3052.3	3180.7	2170.6
47.5°	2555.6	2565.7	2697.5	2986.4	3288.9	3500.2	3477.1	3435.3	3129.3	3176.1	2160.0
50°	2020.1	2081.0	2203.3	2563.1	3087.6	3537.5	3673.9	3577.2	3083.5	3051.3	2052.3
52.5°	1345.2	1370.4	1450.9	1915.4	2482.6	3162.0	3447.4	3469.5	3041.3	2887.8	1915.9
55°	598.9	596.9	710.1	1000.5	1557.6	2406.1	2816.8	2951.7	2878.7	2721.2	1783.1
57.5°	253.6	262.2	308.5	432.3	766.0	1451.9	1908.4	2026.7	2213.9	2234.5	1367.9
60°	171.6	172.6	185.2	216.4	320.6	681.9	1001.0	1142.9	1276.8	1267.7	725.7
62.5°	134.9	138.4	148.0	160.5	190.2	309.5	447.9	526.9	535.5	450.4	275.3
65°	115.2	115.8	125.3	135.9	149.0	180.2	215.9	219.9	222.4	214.4	202.3
67.5°	95.1	96.1	103.7	115.8	127.8	137.9	148.0	153.0	164.6	187.2	184.2
70°	75.5	77.0	83.5	93.6	104.7	110.7	123.3	127.8	138.4	156.0	163.1
72.5°	57.4	57.9	63.4	70.5	80.5	86.6	97.1	102.2	109.2	124.3	130.8
75°	41.3	42.8	46.8	50.3	51.8	55.9	65.9	71.5	81.5	88.1	88.6
77.5°	21.6	22.6	23.7	23.7	28.7	36.2	42.8	45.8	52.8	57.9	55.4
80°	8.6	9.1	11.6	15.6	20.1	26.2	30.7	32.2	38.2	41.3	42.8
82.5°	5.0	5.5	7.5	11.1	14.6	18.6	22.1	23.7	27.7	31.2	32.2
85°	2.5	3.0	4.5	7.0	9.6	11.6	11.1	10.6	10.6	10.1	10.6
87.5°	1.0	1.0	1.5	1.5	1.5	2.0	2.5	2.5	2.5	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P526122

CATALOG NUMBER: GALN-SA1A-740-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1	1177.1
2.5°	1178.7	1158.5	1139.9	1105.7	1068.4	1057.9	1014.6	999.0	987.9	974.8	970.8
5°	1184.7	1158.0	1098.1	1029.2	974.3	903.9	857.6	807.7	771.5	762.5	759.9
7.5°	1197.3	1151.5	1048.3	944.1	831.9	736.3	663.3	624.1	589.3	587.3	583.8
10°	1211.4	1131.9	994.0	830.4	687.0	598.4	554.6	537.5	528.9	526.9	525.9
12.5°	1222.9	1127.8	933.1	719.7	584.3	530.9	517.9	516.4	519.9	520.9	522.9
15°	1228.0	1111.7	859.6	620.5	520.4	500.8	506.3	512.3	514.8	521.4	516.4
17.5°	1237.5	1091.1	769.0	542.0	484.6	488.2	497.7	504.8	508.8	513.3	506.8
20°	1242.6	1072.5	683.9	495.2	472.1	478.6	491.7	497.2	502.3	504.3	496.7
22.5°	1238.0	1034.2	609.0	457.5	460.0	468.5	480.1	486.2	483.1	475.1	470.6
25°	1226.0	980.4	530.9	433.3	442.9	458.0	467.0	462.5	457.0	452.4	450.9
27.5°	1225.5	914.4	474.6	411.2	428.3	448.9	445.9	441.9	444.4	440.9	436.8
30°	1228.0	850.5	428.3	398.6	417.7	427.8	431.3	427.3	430.3	423.8	425.8
32.5°	1214.9	788.1	398.1	384.0	405.1	404.6	416.2	419.2	412.2	398.6	400.6
35°	1220.4	737.8	372.4	377.5	391.0	391.0	400.1	396.6	378.0	369.9	371.9
37.5°	1258.7	688.5	359.8	368.4	377.5	381.5	378.5	363.4	358.8	358.8	359.8
40°	1294.9	646.2	352.3	366.4	364.9	367.4	345.2	346.8	346.8	347.3	344.7
42.5°	1327.1	617.5	346.2	354.3	356.8	343.7	330.1	328.6	332.2	331.7	329.6
45°	1338.7	593.9	337.7	340.7	342.7	321.1	314.5	311.5	315.5	317.1	319.1
47.5°	1294.4	574.2	328.1	322.1	318.1	304.0	295.4	289.9	294.9	303.5	305.5
50°	1237.5	548.6	313.0	301.5	292.9	286.9	280.8	275.3	278.8	284.9	283.3
52.5°	1153.5	508.3	293.9	281.8	267.2	268.7	263.2	260.2	262.2	262.2	260.7
55°	1033.7	417.7	261.7	253.1	241.1	245.1	246.1	242.1	238.0	241.6	238.5
57.5°	705.6	294.9	233.5	233.5	221.4	227.0	226.5	216.9	207.3	208.4	206.3
60°	408.2	235.0	215.4	213.4	200.8	205.3	206.3	199.8	185.2	186.2	184.2
62.5°	232.0	200.8	188.2	185.2	182.7	186.7	186.7	178.2	165.6	166.6	164.6
65°	197.3	186.2	168.1	167.6	166.6	167.6	163.6	154.5	143.4	138.9	139.4
67.5°	179.2	172.1	154.5	150.0	147.0	146.5	138.9	130.3	125.3	121.3	120.8
70°	157.0	151.5	138.4	132.4	129.3	122.3	114.7	109.2	102.2	100.2	102.2
72.5°	124.3	123.8	118.8	112.2	105.7	100.2	93.6	86.1	79.5	78.0	74.5
75°	86.1	87.1	88.1	87.1	81.5	74.5	66.9	60.9	52.8	48.3	47.3
77.5°	56.4	57.9	59.4	57.4	53.8	47.3	42.3	34.7	28.7	25.2	24.7
80°	41.3	43.3	44.3	42.8	38.8	33.7	28.2	22.1	17.6	14.6	14.6
82.5°	31.7	33.7	34.7	32.2	28.2	24.2	20.1	15.6	12.1	9.6	9.1
85°	11.1	10.6	12.6	13.1	15.6	14.6	12.1	9.1	7.0	5.0	4.5
87.5°	3.0	3.0	3.5	3.5	3.0	2.5	2.5	2.5	2.0	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

(END OF REPORT)